FORESTRY SUPPLIERS

CATALOG 66

JIM-GEM®

FORESTRY ◇ ENGINEERING ◇ ENVIRONMENTAL SCIENCE

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The Wild Side.

Grab your waders and head out to relocate that unwanted guest that flooded 40 acres overnight.

Just you, a trap, and a fur-covered dam engineer. It's not just your job, it's your passion.

We've been there, too. It's our nature.

Admittedly, finding a reliable source for professional outdoor products in today's internet-driven world is possible, but not always easy. And if you need some solid advice from someone who's actually been there, done that, and seriously understands the demands of your job, then your search is even harder.

That is, until you come to Forestry Suppliers.

You see, that's the attitude that our company was founded on over 66 years ago: Delivering the products you need, backed by knowledge you can trust from folks that "get it" because we've done it ourselves.

Add to this mix our unsurpassed level of customer service and lickety-split order processing, and it's obvious that you've found a rare gem indeed. Why in the world would you trust your professional needs to anyone else?

Forestry Suppliers.

Resourceful. Reliable. Real People.

Need some know-how about using a product, or some help choosing which product to buy? Reach out to our Tech Support Team for expert advice!

Tech Support Team – 800-430-5566 (M-F, 8-5 CST)

Sam Berry

John Wilson

Danny McKenzie

Daniel Nicholson

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Real People Who Really Care.

Whenever you call us with a question, we do whatever it takes to get the answer… whether you need a technical expert to help you determine what product best fits your needs, a service representative to monitor a repair or exchange, or even if you're concerned about shipping or handling restrictions on an international order. You may find similar products elsewhere, but you'll not find better customer service anywhere.

100% Satisfaction Guaranteed!

If any item purchased from us does not meet your expectations, just return it to us in good condition for a prompt and courteous exchange, credit, or refund.

Easy Ways to Order.

Whether you prefer ordering online or on the phone, we can do that. Call our Sales Department to speak with a sales representative–no maze of phone options or talking computers. Plus, we'll handle your purchase order by mail or fax anytime.

Shop our website from any device, 24/7.

You work in the field, so why be tied to your desk just to order the gear you need? Our website delivers a clear picture of our entire inventory regardless of how or where you view it – desktop, laptop, tablet, or smartphone – you'll find everything from our printed catalog, plus online specials and inventory close-outs.

Desktop users of our website can access a complete electronic library of current catalogs and seasonal circulars. Online e-Catalogs are the next best thing to having a Forestry Suppliers catalog in-hand.

JIM-GEM e-Catalog

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From the moment you place an order to the second it lands on the truck, our top-shelf service is at work for you.

Call our Sales Department at 800-647-5368 Monday through Friday between 7:00 a.m. and 6:00 p.m. CST, to speak with a real sales representative, not a computer!

Symbols

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JIM-GEM Products
Built from innovation, Jim-Gem items are developed and sold exclusively by us.

WATER-MARK SURE-SEAL

Forestry Suppliers Brands
Labeled with our custom seal of approval, these items are produced to our specifications to ensure outstanding value and performance.

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ISO Certification
Manufacturers that meet or exceed the stringent quality standards as set by the International Organization for Standardization.

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Educational Grade Applications
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Look for these graphic codes to quickly determine the measurements, readings, or graduations.

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Paying for orders should be just as easy as placing them. That's why we offer multiple ways to pay – credit card, PayPal, open account, C.O.D. or check/money order.

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Forestry Suppliers will not sell, lease, or permit any use of our customer mailing list by any outside source. We just see it as the right thing to do. No exceptions.

In Stock and Ready to Roll.

Unlike other mail order companies, our inventory is merely footsteps away from the same sales, service, and tech personnel you speak with whenever you call. Having stock so conveniently located enables us to get most orders out the door within 24 hours! But it really shines when your question needs a "Yes! We have it!" sort of answer.

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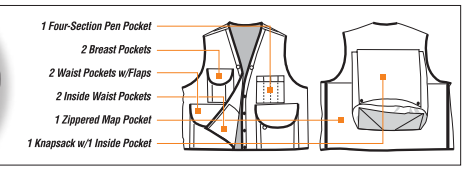
JIM-GEM® Quality Field Vests

Built to be the Best – Tough enough to take the rigors of everyday wear and strong enough to survive hazards that can ruin less-robust brands, our field vests are built to last with exceptional value over the course of the vest life. **Don't be fooled by cheap imitations!** Our vests are constructed of top-quality fabrics that resist fading.

JIM-GEM® "Pro" 10-Pocket Cruiser Vests

1101

The Professional's Choice – Quality cruiser vests feature a flagging dispensing grommet, lanyard grommets, all-steel snaps, pocket gussets and ten roomy pockets. Pockets include one outside pen/pencil breast pocket, one compass breast pocket, three roomy front pockets with Velcro® closures, two large inside pockets with Velcro® closures, a two-pocket knapsack and a hidden zippered map pocket. Both the knapsack and map pockets feature a heavy, 1000 denier Cordura® nylon reinforcement layer sewn at the bottom.



Cordura® Nylon

Made of Cordura®, this lightweight vest is highly visible, water-repellent, mildew-resistant, and features an added UV-inhibitor that extends the life of its color.

Size	Chest	Weight	Orange	Each
Small	35-37	1 lb.	**96003**	**$66.95**
Medium	37-39	1 lb.	**96004**	**$66.95**
Large	39-43	1 lb.	**96005**	**$66.95**
X-Large	43-46	1 lb.	**96006**	**$66.95**
XX-Large	46-49	1 lb.	**96007**	**$66.95**
XXX-Large	49-52	1 lb.	**96013**	**$66.95**
XXXX-Large	52-55	1 lb.	**96014**	**$66.95**

Polyester Oxford Hi-Vis Orange

Polyester oxford is stronger, more durable, and more breathable than acrylic vests. Features orange binding to comply with most state's game and fish regulations for hunter's orange vests.

Size	Chest	Weight	Orange	Each
Small	35-37	1 lb.	**94578**	**$59.95**
Medium	37-39	2 lbs.	**94579**	**$59.95**
Large	39-43	2 lbs.	**94580**	**$59.95**
X-Large	43-46	2 lbs.	**94581**	**$59.95**
XX-Large	46-49	2 lbs.	**94582**	**$59.95**
XXX-Large	49-52	2 lbs.	**96015**	**$59.95**
XXXX-Large	52-55	2 lbs.	**96016**	**$59.95**

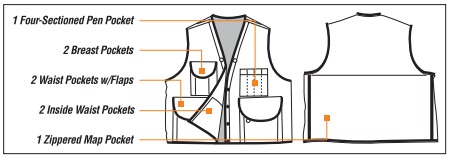
Cotton Army Duck

Made of 100% pre-shrunk Cotton Duck fabric, these heavy-duty vests will stand up to most anything. Available in High-Vis Orange or Tan.

Size	Chest	Weight	Orange	Tan	Each
Small	35-37	2 lbs.	**96008**	**94596**	**$59.95**
Medium	37-39	2 lbs.	**96009**	**94597**	**$59.95**
Large	39-43	2 lbs.	**96010**	**94598**	**$59.95**
X-Large	43-46	2 lbs.	**96011**	**94599**	**$59.95**
XX-Large	46-49	2 lbs.	**96012**	**94600**	**$59.95**
XXX-Large	49-52	2 lbs.	**96017**	**96019**	**$59.95**
XXXX-Large	52-55	2 lbs.	**96018**	**96020**	**$59.95**

JIM-GEM® 8-Pocket Nylon Mesh Cruiser Vests

1104



Wear over a shirt or a jacket – these are true all-season vests! Made from a breathable 330 Cordura® nylon mesh, each lightweight cruiser vest features eight pockets: a compass pocket, a pencil pocket, a notebook pocket, and two pockets at the waist (one with a flagging dispensing grommet and both with Velcro® closures), two inside pockets at the waist and one large pack pocket on the back which stretches across the full width of the vest. All edges are bound to prevent fraying. Available in Hi-Vis Orange or Tan.

Size	Chest	Weight	Orange	Tan	Each	4+
S	35-37	15 oz.	**94664**	**94690**	**$48.95**	**$43.50**
M	37-39	1 lb.	**94665**	**94691**	**$48.95**	**$43.50**
L	39-43	1 lb.	**94666**	**94692**	**$48.95**	**$43.50**
XL	43-46	1 lb.	**94667**	**94693**	**$48.95**	**$43.50**
XXL	46-49	1 lb.	**94673**	**94694**	**$48.95**	**$43.50**
3XL	49-52	1 lb.	**96021**	**96023**	**$48.95**	**$43.50**
4XL	52-55	1 lb.	**96022**	**96024**	**$48.95**	**$43.50**

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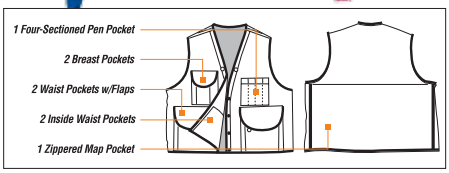
JIM-GEM

JIM-GEM® 8-Pocket Class 2 Mesh Vests

8745



ANSI/ISEA 107-2004 Class 2 Compliant

Designed to comply with ANSI/ISEA 107-2004 Class 2 Standards for high-visibility safety apparel. These economical vests feature eight pockets: a compass pocket, a pencil pocket, a notebook pocket, two pockets at the waist (one with a flagging dispensing grommet and both with Velcro® closures), two inside pockets at the waist and one large pack pocket on the back which stretches across the full width of the vest. Plus, they have a handy mic tab. 100% polyester.

Color	Small 36–38	Medium 40-42	Large 44-46	X-Large 48-50	XX-Large 52+	Weight	Each	5+
Orange	96073	96074	96075	96076	96077	1 lb.	$48.95	$43.95
Lime	96068	96069	96070	96071	96072	1 lb.	$48.95	$43.95

JIM-GEM

JIM-GEM® Deluxe 12-Pocket Class 2 Mesh Surveyor's Vest

8483

ANSI 107-2004 Class 2 Compliant

This 100% polyester mesh vest is a surveyor's dream come true! Cool and comfortable to wear, you'll also love the many roomy pockets including a radio pocket with a mic clip, a field notebook pocket, 4 pencil slots, a compass pocket with grommet, 4 flagging pockets with grommets, 2 large inside pockets, and 2 inside zippered pockets. Velcro® pocket closures keep items secure. 2˝W Reflective strips on the front and back provide added visibility.

High-Vis	Small	Medium	Large	X-Large	XX-Large	Weight	Each	5+
Orange	24944	24945	24949	24956	24957	1 lb.	$57.50	$52.95
Yellow	24959	24960	24961	24962	24963	1 lb.	$57.50	$52.95

FILSON Since 1897

New! Filson® Twill Original Briefcase

4920

Made in USA

Tough enough for everyday use in the field, this water-repellent briefcase is constructed of 22 oz. 100% cotton oil-finish twill. Features two full-length interior open pockets, one interior business card pocket, one interior calculator/cell phone pocket, two full-width exterior open side pockets, two small exterior end utility pockets, an interior brass clasp for securing keys, and a bridle leather carrying/hanging loop. A two-way brass zipper with leather pulls combines with a storm flap featuring a bridle leather snap tab closure to keep contents secure. Meets airline carry-on requirements. Made in USA. **Dimensions:** 16˝W x 12-1/2˝H x 4˝D.

Filson Twill Original Briefcase	3 lbs.	**22750**	**$248.00**

New! Filson® Twill Large Briefcase/ Computer Case

4920

Made in USA

This roomy briefcase features a non-padded laptop compartment, two full-length interior open pockets, an interior business card pocket, an interior calculator/cell phone pocket, two full-width exterior open side pockets, and two small exterior end pockets. Constructed of 22 oz. 100% cotton oil-finish twill, the water-repellent briefcase features a durable double bottom, a two-way brass zipper with leather pulls, a storm flap with a bridle leather snap tab closure, and a removable leather shoulder strap. Meets airline carry-on requirements. Made in USA. **Dimensions:** 16˝W x 12-1/2˝H x 6˝D.

Filson Twill Large Briefcase/Computer Case	4 lbs.	**22751**	**$300.00**

FILSON Since 1897

Filson® Original 7-Pocket Cruiser Vests

1105

Made in USA

A multitude of pockets, sharp looks, and legendary Filson quality.

Filson vests feature seven roomy pockets, reinforced brass snap closures, and a brass grommet for securing compass or other instrument lanyards. 10 oz. Tan pre-shrunk Fil-duck 100% cotton.

Chest Size 36	38	40	42	44	46	48	50	Weight	Each
94680	94681	94682	94683	94684				1 lb.	$125.00
					94685	94686	94687	2 lbs.	$125.00

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1

1 Viking® Class 2 Rip-Stop Polyester Surveyor Safety Vest

4623

ANSI/ISEA 107-2010 Class 2, Level 2 Compliant

Constructed of heavy-duty 300 denier trilobal rip-stop polyester, this rugged vest resists abrasions, punctures, rips, and snags. The 2″3M Scotchlite™ reflective material is arranged in a 4″WCB/Worksafe/DOT configuration to offer excellent visibility, and mesh side vents keep you cool. Features eight Velcro-sealed storage pockets, a cell phone/radio pouch pocket, multiple smaller pockets (for pens, markers, chalk, rulers, etc.), a 14″ zippered backpack pocket, an 11″ruler slot pocket, survey tape dispenser grommets on the lower front pockets, ID patch/cell phone/radio clip bands on the upper left and right chest, and a safety D-ring access slot. Fully compliant with ANSI/ISEA 107-2010 Class 2, Level 2.

Color	Small	Medium	Large	X-Large	XX-Large	XXX-Large	Weight	Each
Orange	24720	24721	24722	24723			1 lb.	$72.25
					24724	24725	1 lb.	$74.25
Lime	24726	24727	24728	24729			1 lb.	$72.25
					24730	24731	1 lb.	$74.25

2

2 Viking® Class 2 Surveyor Safety Vest

4623

ANSI/ISEA 107-2010 Class 2, Level 2 Compliant

The 2″3M Scotchlite™ reflective material on this vest is arranged in a 4″WCB/Worksafe/DOT configuration to provide outstanding visibility. The vest is constructed of heavy-duty polyester and features mesh underarm cooling ventilation panels. Also features eight Velcro-sealed pockets, a cell phone/radio pouch, four other pockets for storing small items, a large zippered pocket across the back area, survey tape dispenser grommets on the lower front pockets, ID patch/cell phone/radio clip bands on the upper left and right chest, and a safety D-ring access slot. Fully compliant with ANSI/ISEA 107-2010 Class 2, Level 2.

Color	Small	Medium	Large	X-Large	XX-Large	XXX-Large	Weight	Each
Orange	24744	24745	24746	24747			15 oz.	$55.50
					24748	24749	1 lb.	$58.25
Lime	24750	24751	24752	24753			14 oz.	$55.50
					24754	24755	1 lb.	$58.25

3

SECO

3 SECO Class 2 Surveyor's Vest with Mesh Back

4519

ANSI/ISEA 107-2004 Class 2 Compliant

Made of 100% polyester, this vest features a cool, comfortable mesh back. The special compartments include a field notebook pocket, pencil slots, a compass pocket with grommet, a flagging tape pocket with grommets, and inside pockets. Plus, there is an exterior radio mic clip.

Color	Small 40″-42″	Medium 44″-46″	Large 48″-50″	X-Large 52″-54″	XX-Large 56″-58″	Weight	Each	5+
Fluorescent Orange	24823	24824	24825	24826		1 lb.	$72.50	$67.25
					24827	1 lb.	$76.75	$71.25
Fluorescent Lime Yellow	24833	24834	24835	24836		1 lb.	$72.50	$67.25
					24837	1 lb.	$76.75	$71.25

4

4 SECO Class 2 Lightweight Safety Utility Vest

8449

ANSI/ISEA 107-2004 Class 2 Compliant

Offers visibility and safety on the job site. Constructed of 100% Polyester for softness, comfort, superior strength, and abrasion resistance. Also features 2″W reflective strips and convenient pockets with sturdy snap fasteners. Designed to comply with DOT MUTCD and ANSI/ISEA 107-2004 Class 2 Standards for high-visibility safety apparel.

Color	Small	Medium	Large	X-Large	XX-Large	Weight	Each	5+
Fluorescent Orange	24818	24819	24846	24847		2 lbs.	$83.50	$78.25
					24848	2 lbs.	$89.50	$81.95
Fluorescent Yellow	24806	24807	24808	24809		2 lbs.	$83.50	$78.25
					24849	2 lbs.	$89.50	$81.95

Cruiser Kit/Map Case

2086

Doubles as a clipboard and aerial photo holder!

Constructed of waterproof nylon fabric with edge binding for extra strength. Two Velcro® closure side straps keep the clipboard open 90° while in use. Other features include a full-size map pocket, a compass/prism pocket, and a pen/scale organizer. Straps to your chest using neck and waist harness. **Dimensions:** 14″x 11-3/4″.

Cruiser Kit/Map Case	1 lb.	51033	$46.95

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New! Tablet-EX-Gear Cortes Chest Pack
4858

The Tablet-EX-Gear Cortes Chest Pack is designed to carry up to a 10 inch tablet computer safely while keeping it easily accessible. The main pouch will hold a tablet computer up to 9-1/2″W x 11-1/4″H x 1-3/4″ Thick and has a zipper closure with two sheets of ABS plastic enclosed in two inside pouches to protect your tablet. Four front pockets are mounted on the front of the main pouch and are designed to carry a variety of field gear. Pockets on both sides of the main pouch hold items such as a stylus, marker, folding knife, flashlight, etc. Side panels on the harness provide attachment points for accessories, as well. The Cortes Pack Harness will fit individuals between 5′4″ and 6′5″ tall with a mid section between 26″ and 45″ (circumference at your belly button). Made of bright orange Cordura nylon with yellow reflective strips on the front and harness.

Tablet-EX-Gear Cortes Chest Pack	2 lbs.	**94905**	**$134.95**

94905

94904

New! Tablet-EX-Gear Stirling Chest Pack
4858

Designed to carry a 7, 8, or 9 inch tablet computer safely while keeping it easily accessible. The main pouch will hold a tablet computer up to 7-1/2″W x 9-1/2″H x 1-3/4″ Thick and has a zipper closure with two sheets of ABS plastic enclosed in two inside pouches to protect your tablet. Mounted on the front of the main pouch are two pockets designed to carry a variety of field gear. The top pouch includes a removable radio pouch and the bottom pocket has a removable divider to allow you to adapt the pack to your specific needs. On both sides of the main pouch are pockets designed to hold items such as a stylus, marker, folding knife, flashlight, etc. Side panels on the harness provide attachment points for accessories, as well. The Stirling Pack Harness will fit individuals between 5′2″ and 6′5″ tall with a mid section between 28″ and 45″ (circumference at your belly button). Made of bright orange Cordura nylon with yellow reflective strips on the front and harness.

Tablet-EX-Gear Stirling Chest Pack	2 lbs.	**94904**	**$114.95**

94906

94907

94908

94909

Accessories for Tablet-EX-Gear Chest Packs
4858

Tablet-EX-Gear Small Utility Pouch, 6″W x 5″H x 2″D	2 oz.	**94906**	**$13.95**
Tablet-EX-Gear Large Utility Pouch, 6″W x 7″H x 2″D	6 oz.	**94907**	**$15.95**
Tablet-EX-Gear Radio Holster, Fits Radio bodies from 3″-5.5″ High.	1 oz.	**94908**	**$13.95**
Tablet-EX-Gear Water Bottle/Paint Can Holster, Fits bottles and tins up to 3″ in diameter.	1 oz.	**94909**	**$12.95**

35830

35989
with 35987

TRUENORTH

True North® Aero-Vest™ Search and Rescue Vest
8689

Designed by and for people dedicated to saving lives. Minimizes heat-trapping, maximizes air flow, and provides a greater range of motion than conventional designs. Ideal for timber cruising or other forestry work in hot weather. Made of 3-D cooling mesh, it converts from a vest to two thigh packs in seconds. 12 pockets for organization and quick access (includes two quick-draw pockets with 8-1/2″ zippered openings), radio pocket with adjustable keeper strap, detachable F.O.G. case with page protectors and book marks, flagging tape dispenser, two 2″ x 4″ Velcro® patches for ID, and a grab/drag handle.

Capacity: 975 cu. in. **Weight:** 2 lbs. **Materials:** 1000D Cordura®, 3-D Mesh, Nylon Webbing, #8 YKK® Zipper, 3M™ Reflective Tape, and Nylon Hardware.

Aero-Vest, Black	2 lbs.	**35985**	**$134.25**
Aero-Vest Pack, Black	1 lb.	**35989**	**$44.25**
Speed Belt – With the click of four buckles you can attach or detach from the Aero-Vest in seconds. Rugged construction with 1/2″ XPE foam padding provides unequaled comfort and strength for those long days in the field. The Speed Belt is required for attaching the Aero-Pack and GO! Pack to the Aero-Vest.	1 lb.	**35987**	**$37.50**
GO! Pack, Black – Simple attachment system allows you to attach or remove this pack in seconds. Top loader design with separate hydration pocket, lid pocket and two covered side pockets for 1,500 in³ capacity.	2 lbs.	**35830**	**$73.95**
		10+	**$68.25**

94051
93201

94054

94055

02413

93271
& 93270

Load Bearing Suspender System
1108

Combine suspenders and belt with the accessories that meet your needs in the field!

Load-bearing suspender system distributes weight comfortably. All accessories are olive drab. Belt and suspenders sold separately.

Nylon Pistol Belt, 2-1/4″W, Up to 46″ Waist	10 oz.	**93201**	**$8.25**
		10+	**$7.95**
G.I. Style Suspenders With Padded Shoulders	8 oz.	**94051**	**$10.99**
Belt Pouch, Cordura – Holds two 20 oz. Fuel Bottles, 5-1/2″ x 10″ x 3-1/2″	3 oz.	**94055**	**$11.25**
Fanny Pack Carry Bag, 6″ x 9″ x 8″	10 oz.	**94054**	**$25.25**
1-Quart Canteen	6 oz.	**93271**	**$5.70**
		10+	**$4.95**
Insulated Canteen Cover, Rugged, insulated nylon cover features two metal belt keepers and a small pocket on the side.	4 oz.	**93270**	**$5.75**
		10+	**$5.20**
Military Right Angle Flashlight, Requires 2 D Cell Batteries	8 oz.	**02413**	**$15.25**
		12+	**$13.95**
Replacement Krypton Lamp For 02413	1 oz.	**02417**	**$2.05**
D cell Alkaline Battery, Single	6 oz.	**02180**	**$2.45**

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Flap Cap
7266

Maximum sun protection rating of 50+. The flap covers the sides and back of your neck for protection from the sun. Cap features an adjustable drawstring for the perfect fit. One size fits all. Color may vary.

Flap Cap	3 oz.	**24413**	**$16.25**

Cloth Mesh Survivor Hat
7267

Cool protection from the sun! Breathable mesh crown with leather chin tie. One size Elasta-Fit. Color may vary.

Cloth Mesh Survivor Hat	5 oz.	**24412**	**$22.95**
		3+	**$20.50**

Helios Sun Hat
8713

This broad sun hat has a 50+ UPF rating. The headband moves moisture away from your brow, while the brim offers plenty of shade. Drawcord keeps it snug. Made of ripstop nylon/polyester blend. **Color:** Sand.

Medium, 7-1/8″	2 oz.	**24494**	**$36.00**
Large, 7-3/8″	3 oz.	**24495**	**$36.00**
X-Large, 7-5/8″	3 oz.	**24496**	**$36.00**

New! Costa® Mesh Hats
4871

These Six-Panel trucker caps have a stylish cotton front with mesh back panels to keep you cool. Garment washed for softness, comfort, and a broken-in look. Velcro® back closure for quick release. One size fits most.

Costa Mesh Hat Moss/Stone	3 oz.	**24281**	**$14.99**
Costa Mesh Hat Orange/White	3 oz.	**24282**	**$14.99**
Costa Mesh Hat Spring Green/ White	3 oz.	**24283**	**$14.99**
Costa Mesh Hat Realtree® Xtra® Camo/Stone w/ Orange Logo	3 oz.	**24284**	**$19.99**

Forestry Suppliers Field Caps
7621

These 6-panel, low-profile caps feature the Forestry Suppliers with Jim-Gem logo embroidered on the front of the cap. Adjustable Velcro® closure on back.

Brown with Tan Logo	3 oz.	**24391**	**$8.95**
		3+	**$7.95**
Loden Green with White Logo	3 oz.	**24392**	**$8.95**
		3+	**$7.95**
Olive/Tan Mesh with Tan Logo	3 oz.	**24397**	**$8.95**
		3+	**$7.95**

Insect Repellents
pages 648 and 649

Forestry Suppliers' Waxed Canvas Field Cap
1106

Forestry Suppliers' logo embroidered in khaki against dark green canvas. Six-panel cap constructed of waxed canvas for superior water resistance. Adjustable.

Waxed Canvas Field Cap	3 oz.	**24441**	**$9.95**

DESKTOP. TABLET. MOBILE.
THE NEW FORESTRY-SUPPLIERS.COM

Pith Helmets
1103

The ultimate sun helmet.

Made in USA

Each helmet features an adjustable headband for comfort and an absorbent sweatband. Choose from natural straw (double-lacquered for long life) or high density polyethylene in tan or white. One size fits all. Made in the USA.

Double-Lacquered Straw Pith Helmet

Adjustable headband and absorbent sweatband for comfort. Tan or white. One size fits all. Made in the USA.

Tan	6 oz.	**24361**	**$26.50**
		6+	**$24.50**
White	6 oz.	**24370**	**$26.50**
		6+	**$24.50**

High Density Polyethylene Pith Helmet

Adjustable headband and absorbent sweatband for comfort. Tan or white. One size fits all. Made in the USA.

Tan	11 oz.	**24338**	**$18.95**
		6+	**$17.50**
White	11 oz.	**24339**	**$18.95**
		6+	**$17.50**

Note: A United States Postal Service version of this helmet is available. Call for details.

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Columbia Sportswear Company

New! Columbia Tamiami™ II Shirts

7866

Designed for superior comfort and functionality! The Omni-Wick™ 100% polyester ripstop fabric actively breathes and pulls moisture away from your skin. Omni-Shade™ **UPF 40** provides outstanding UV protection, and an anti-microbial treatment guards against bacterial growth. Offering a modern yet classic fit, the shirt features a mesh-lined vent in the back.

Color	Short Sleeve Shirts							Long Sleeve Shirts						
	Small	Medium	Large	X-Large	XX-L	Weight	Each	Small	Medium	Large	X-Large	XX-L	Weight	Each
Black	21565	21566	21567	21568	21569	14 oz.	$40.00	21535	21536	21537	21538	21539	14 oz.	$48.00
Fossil	21570	21571	21572	21573	21574	14 oz.	$40.00	21540	21541	21542	21543	21544	14 oz.	$48.00
Gulf Stream	21575	21576	21577	21578	21579	14 oz.	$40.00	21545	21546	21547	21548	21549	14 oz.	$48.00
Commando	21585	21586	21587	21588	21589	14 oz.	$40.00	21550	21551	21552	21553	21554	14 oz.	$48.00
Bounty Blue	21590	21591	21592	21593	21594	14 oz.	$40.00	21555	21556	21557	21558	21559	14 oz.	$48.00
Jupiter	21595	21596	21597	21598	21599	14 oz.	$40.00	21560	21561	21562	21563	21564	14 oz.	$48.00
Sunlit	21580	21581	21582	21583	21584	14 oz.	$40.00	21600	21601	21602	21603	21604	14 oz.	$48.00

Columbia Sportswear Company

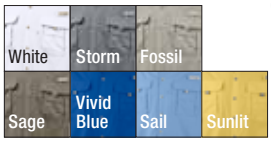
Columbia Bora Bora™ Booney II Hat

2820

Made of 100% textured nylon poplin and lined with 100% polyester, this ultra-breathable Omni-Shade® hat features UPF 50 to block out 98% of harmful UVA and UVB rays. An Omni-Wick™ sweatband combines with a mesh vent panel (which is non UPF) to keep you cool and the sweat from dripping in your eyes. An adjustable toggle customizes the hat's fit to your head. An adjustable chinstrap adds further security.

Bora Bora Booney II, Sage 2 oz.	21452	$30.00
Bora Bora Booney II, Fossil 14 oz.	21453	$30.00

Columbia Sportswear Company



Columbia Bahama™ II Short Sleeve Shirts & Long Sleeve Shirts

7890, 7862

Lightweight, durable nylon dries fast and the mesh-lined cape vents at the back shoulder enhance airflow. Other features include built-in UV protection (Omni-Shade® **UPF 30** sun protection) and two big chest pockets.

Color	Short Sleeve							Long Sleeve						
	Small	Medium	Large	X-Large	XX-L	Weight	Each	Small	Medium	Large	X-Large	XX-L	Weight	Each
White	21345	21346	21347	21348	21349	14 oz.	$40.00	21305	21306	21307	21308	21309	14 oz.	$48.00
Storm	21355	21356	21357	21358	21359	14 oz.	$40.00	21315	21316	21317	21318	21319	14 oz.	$48.00
Fossil	21365	21366	21367	21368	21369	14 oz.	$40.00	21325	21326	21327	21328	21329	14 oz.	$48.00
Sage	21370	21371	21372	21373	21374	14 oz.	$40.00	21330	21331	21332	21333	21334	14 oz.	$48.00
Gulf Stream	21375	21376	21377	21378	21379	14 oz.	$40.00	21335	21336	21337	21338	21339	14 oz.	$48.00
Vivid Blue	21420	21421	21422	21423	21424	14 oz.	$40.00	21390	21391	21392	21393	21394	14 oz.	$48.00
Sail	21425	21426	21427	21428	21429	14 oz.	$40.00	21395	21396	21397	21398	21399	14 oz.	$48.00
Sunlit	21430	21431	21432	21433	21434	14 oz.	$40.00	21400	21401	21402	21403	21404	14 oz.	$48.00

Columbia Sportswear Company

Columbia Schooner Bank™ Cachalot III Hat

2821

Featuring UPF 50, this quick-drying cap shades your face, head and neck from 98% of the sun's harsh UVA and UVB rays. The Omni-Wick™ sweatband also works to keep sweat from dripping in your eyes while the mesh vent panel (which is non UPF) keeps you cool. An adjustable toggle customizes the hat's fit to your head, and the adjustable chinstrap adds further security. Shell is made of 100% textured nylon poplin and lined with 100% polyester.

Schooner Bank Cachalot III, Sage 3 oz.	21450	$28.00
Schooner Bank Cachalot III, Fossil 3 oz.	21451	$28.00

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Under Armour® UA Outdoor Fleece Beanie
4666

Made of 100% high pile polyester fleece for a soft, warm feel. HeatGear® lining wicks moisture away. Low profile fit. One size fits most.

UA Outdoor Fleece Beanie, Black 8 oz.	**25544**	**$19.95**
UA Outdoor Fleece Beanie, Blaze Orange 8 oz.	**25545**	**$19.95**
UA Outdoor Fleece Beanie, Rifle Green 8 oz.	**25546**	**$19.95**

Under Armour® UA Fleece Neck Gaiter
4665

Keeps your neck warm in cold temperatures! Made of soft, warm, high pile 100% polyester fleece. **Color:** Black. One size fits most.

UA Fleece Neck Gaiter 8 oz.	**25543**	**$19.95**

Under Armour® UA Evo ColdGear® Hood
4664

Provides full face protection. 100% Polyester ColdGear fabric ensures superior moisture management. Also converts to a neck gaiter. **Color:** Black.

UA EVO ColdGear Hood 8 oz.	**25542**	**$29.95**

Under Armour® UA Coldgear® INFRARED EVO Mock
4663

Coldgear INFRARED printed interior traps heat for superior warmth without added weight! The dual-layer fabric provides an ultra-warm interior and a slick, fast-drying exterior. Other features include 4-way stretch fabrication for greater mobility and maintains shape, Signature Moisture Transport System wicks sweat away from the body, anti-odor technology prevents the growth of odor causing microbes, and it has smooth, chafe-free flatlock seam construction. 87% Polyester, 13% elastane. **Fit:** Fitted.

Mock	Black	Rifle Green	Timber
M	**25530**	**25532**	**25531**
L	**25535**	**25533**	**25534**
XL	**25536**	**25538**	**25537**
XXL	**25541**	**25539**	**25540**
Wt.	8 oz.	8 oz.	8 oz.
Each	**$54.95**	**$54.95**	**$54.95**

Under Armour® UA Base 2.0 Crew
4669

Base 2.0 was designed to provide versatile mid-weight layering for cold conditions and a variety of activity levels. It fits close to your skin, but is not tight, and wicks sweat away keeping you warm, dry and comfortable. Other features of the Base 2.0 Crew include raglan sleeves, flatlock stitching, ergonomic seam placement, and ArmourBlock® anti-odor technology. **Material:** 93% polyester, 7% elastane. **Color:** Black.

Crew	UA Base 2.0
M	**25510**
L	**25511**
XL	**25512**
XXL	**25513**
Wt.	8 oz.
Each	**$54.95**

Under Armour® UA Base 3.0 Crew
4670

Extreme

Base 3.0 was designed to provide aggressive warmth for extreme cold and a variety of activity levels. It fits close to your skin, but is not tight, and wicks sweat away keeping you warm, dry and comfortable. Other features of the Base 3.0 Crew include raglan construction, flatlock stitching, ergonomic seam placement, and ArmourBlock® anti-odor technology. **Material:** 93% polyester, 7% elastane. **Color:** Black.

Crew	UA Base 3.0
M	**25518**
L	**25519**
XL	**25520**
XXL	**25521**
Wt.	8 oz.
Each	**$74.95**

Under Armour® Coldgear INFRARED EVO Legging
4668

The dual-layer fabric of these leggings gives you an ultra-warm interior and a slick, fast-drying exterior. ColdGear INFRARED printed interior traps heat for superior warmth without added weight. Other features include 4-way stretch fabrication for greater mobility and to maintain shape; signature moisture transport system wicks sweat away; anti-odor technology which prevents the growth of odor causing microbes; smooth, chafe-free flatlock seam construction; branded elastic waistband; and a working fly. **Color:** Black/Steel.

Under Armour® UA Base 2.0 Legging
4669

Versatile mid-weight layering for cold conditions. Base 2.0 Leggings include flatlock stitching, ergonomic seam placement, a working fly, and ArmourBlock® anti-odor technology. **Material:** 93% polyester, 7% elastane.

Under Armour® UA Base 3.0 Legging
4670

Extreme

Fits close to your skin and wicks sweat away keeping you warm, dry and comfortable. Base 3.0 Leggings include flatlock stitching, ergonomic seam placement, performance waistband, working fly, and ArmourBlock® anti-odor technology. **Material:** 93% polyester, 7% elastane.

Leggings	M	L	XL	XXL	Weight	Pair
Coldgear INFRARED EVO	**25526**	**25527**	**25528**	**25529**	8 oz.	**$54.95**
UA Base 2.0	**25514**	**25515**	**25516**	**25517**	8 oz.	**$54.95**
UA Base 3.0	**25522**	**25523**	**25524**	**25525**	8 oz.	**$74.95**

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Vintage M-65 Field Jacket
7360

Made to Military Standard R354-0104. Super soft, yet durable. Features a washed 100% cotton outer shell and lining, a concealed hood, heavy brass zipper and snap-up storm flap, two hook and loop chest tabs, and drawstrings in the waist, hood and bottom. Removable Ultra Force® patch is also included.

Vintage M-65 Field Jacket - Olive Drab, Medium (37-41)	3 lbs.	**20040**	**$70.99**
Vintage M-65 Field Jacket - Olive Drab, Large (41-45)	3 lbs.	**20041**	**$70.99**
Vintage M-65 Field Jacket - Olive Drab, X-Large (45-49)	4 lbs.	**20042**	**$70.99**
Vintage M-65 Field Jacket - Olive Drab, XX-Large (49-53)	4 lbs.	**20043**	**$74.99**

Special Ops Tactical Soft Shell Jacket
2943

Durable, lightweight and breathable plus it has a 100% waterproof polyester shell! The 3-layer construction deflects wind, wicks away moisture and retains body heat! Features include a fleece lining, a fleece-lined stand-up collar with a zipper pouch for stow-away hood, zippered shoulder pocket on each arm, zippered forearm pocket on left arm, two front slash zippered chest pockets, two interior zippered pockets, two zippered back pockets with mesh interior, vent zipper under each arm, 4″x 4″ loop side of hook & loop on each shoulder for patch attachment, drawstring waist and hood, and elastic hook and loop adjustable wrist cuffs.

Medium (37-41), Coyote Brown	3 lbs.	**20020**	**$83.99**
Large (41-45), Coyote Brown	3 lbs.	**20021**	**$83.99**
XL (45-49), Coyote Brown	3 lbs.	**20022**	**$83.99**
XXL (49-53), Coyote Brown	3 lbs.	**20023**	**$92.99**

Nite Lite 3-Season Deluxe Coat
7334

100% Waterproof and constructed of heavy-duty brush tough nylon. Features a removable fleece liner that provides unmatched warmth in the winter and can also be worn by itself. When the liner is removed, the shell has comfort mesh ideal for early fall and late spring weather. Includes a removable game bag, an LED accessory light, a detachable hood, multiple handy pockets, and shoulder snaps.

Medium	4 lbs.	**20300**	**$143.99**
Large	4 lbs.	**20301**	**$143.99**
X-Large	5 lbs.	**20302**	**$143.99**
XX-Large	5 lbs.	**20303**	**$143.99**

Grabber® Hand Warmers
page 621

M-65 Field Jacket Liner
7360

Made to Military Standard R354-0104. Quilted outer shell with a 5 oz. polyester fill. Buttons into all types of field jackets.

Olive Drab, Medium (37-41)	1 lb.	**20044**	**$22.99**
Olive Drab, Large (41-45)	2 lbs.	**20045**	**$22.99**
Olive Drab, X-Large (45-49)	1 lb.	**20046**	**$22.99**
Olive Drab, XX-Large (49-53)	1 lb.	**20047**	**$24.99**

Vintage Paratrooper Fatigue Pants
7360

Made to Military Standard R236-GB108. Stylish cargo pants made of super soft, yet durable washed cotton/poly twill. Feature 8 pockets, a zipper fly, two 2″ waist tabs, drawstring bottoms and reinforced seat and knees. 32″ Inseam only.

Color	Small (27″-31″)	Medium (31″-35″)	Large (35″-39″)	X-Large (39″-43″)	XX-Large (43″-47″)	Weight	Each
Black	**20048**	**20049**	**20050**	**20051**		2 lbs.	**$34.99**
					20052	2 lbs.	**$36.99**
Khaki	**20053**	**20054**	**20055**	**20056**		2 lbs.	**$34.99**
					20057	2 lbs.	**$36.99**
Olive Drab	**20058**	**20059**	**20060**	**20061**		2 lbs.	**$34.99**
					20062	2 lbs.	**$36.99**
Russet Brown	**20063**	**20064**	**20065**	**20066**		2 lbs.	**$34.99**
					20067	2 lbs.	**$36.99**
Woodland Camo	**20068**	**20069**	**20070**	**20071**		2 lbs.	**$34.99**
					20072	2 lbs.	**$36.99**
Woodland Digital Camo	**20093**	**20094**	**20095**	**20096**		2 lbs.	**$34.99**
					20097	2 lbs.	**$36.99**

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Arborwear

New! Arborwear® Linden Short Sleeve Shirt
2866

Stay cool and comfortable in this rugged short sleeve shirt! Made of 5.5 oz. 100% brushed cotton twill, the shirt features a full-button front and Velcro® patch pockets with integrated pen holder.

	Khaki	Moss
Small	20810	20815
Medium	20811	20816
Large	20812	20817
X-Large	20813	20818
XX-Large	20814	20819
Weight	1 lb.	1 lb.
Each	$39.95	$39.95

New! Arborwear® Linden Long Sleeve Shirt
2866

Comfortable and durable, this shirt is made of 5.5 oz. 100% brushed cotton twill. Features a full-button front and streamlined Velcro® patch pockets with integrated pen holder.

	Khaki	Moss
Small	20800	20805
Medium	20801	20806
Large	20802	20807
X-Large	20803	20808
XX-Large	20804	20809
Weight	1 lb.	1 lb.
Each	$44.95	$44.95

Arborwear® Tech T-Shirt
7333

Wicks moisture away and keeps smelling fresh thanks to the Dri-Release fabric with Fresh Guard, the natural odor neutralizer. Fresh Guard is a bacteristat that prevents bacteria growth. Shirt is made of 15% Cotton/85% polyester blend.

	Forest Green	Athletic Gray	Black	Navy	Safety Yellow
Small	21061	21060	20639	20644	20649
Medium	21026	21034	20640	20645	20650
Large	21027	21035	20641	20646	20651
X-Large	21028	21036	20642	20647	20652
XX-Large	21029	21037	20643	20648	20653
Weight	8 oz.	8 oz.	1 lb.	1 lb.	1 lb.
Each	$21.95	$21.95	$21.95	$21.95	$21.95

New! Arborwear® Tech II Pants
2819

Made of 7 oz. 100% nylon combined with a Teflon® fabric protector to repel most water and oil-based liquids. They carry a UPF 50+ rating for protection against harmful UV rays. Both the hand and cargo pockets are ergonomically contoured, and the hand pockets are lined with mesh for breathability. They also feature a three-piece Rugged Gusset™ crotch and double-layer, articulated knees.

Driftwood | Forest Green

Arborwear® Flannel Lined Pants
2816

Tough on the outside, soft and warm on the inside. These are the Arborwear Original Tree Climbers' Pants but with a gusseted 4 oz. cotton flannel lining. Features include 12.5 oz. ringspun cotton canvas, double knee, 4 pockets plus utility pocket, YKK® Zipper, Rugged Gusset™ crotch, and boot friendly work cuff. Garment washed.

Moss | Maple

Arborwear® Original Tree Climber's Pants
4000

Designed by a tree climber for tree climbers!

A tough double-layered panel from the knee to mid-thigh of these pants prevents wear. Tapered pant cuffs form perfectly to your legs and eliminate bunching. Relaxed room legs and the large Rugged Gusset™ crotch offer superior freedom of movement. Made of 12 oz. cotton canvas.

Chestnut | Diesel | Driftwood | Maple

	Color	Waist	Length 30	32	34	36	Weight	Pair
Tech II Pants	Driftwood	30	20315	20316	20317	20318	2 lbs.	$79.95
		32	20319	20320	20321	20322	2 lbs.	$79.95
		34	20341	20342	20343	20344	2 lbs.	$79.95
		36		20323	20324	20325	2 lbs.	$79.95
	Forest Green	30	20326	20327	20328	20329	2 lbs.	$79.95
		32	20330	20331	20332	20333	2 lbs.	$79.95
		34	20334	20335	20336	20337	2 lbs.	$79.95
		36		20338	20339	20340	2 lbs.	$79.95
Flannel Lined Pants	Chestnut	32	20487	20488	20489		2 lbs.	$64.95
		34		20491	20492	20490	2 lbs.	$64.95
		36			20494	20493	2 lbs.	$64.95
	Moss	32	20495	20496	20497		2 lbs.	$64.95
		34		20499	20500	20498	2 lbs.	$64.95
		36			20501	20502	2 lbs.	$64.95
	Maple	32	20503	20504	20505		2 lbs.	$64.95
		34		20508	20509	20510	2 lbs.	$64.95
		36			20511	20512	2 lbs.	$64.95

	Color	Waist	Length 30	32	34	36	Weight	Pair
Original Tree Climber's Pants	Moss	32	20100	20101	20102		2 lbs.	$54.95
		34	20103	20104	20105		2 lbs.	$54.95
		36	20106	20107	20108		2 lbs.	$54.95
	Chestnut	32	20110	20111	20112		2 lbs.	$54.95
		34	20113	20114	20115		2 lbs.	$54.95
		36	20116	20117	20118		2 lbs.	$54.95
	Diesel	30	20533	20534	20535	20536	2 lbs.	$54.95
		32	20537	20538	20539	20540	2 lbs.	$54.95
		34	20541	20542	20543	20544	2 lbs.	$54.95
		36		20545	20546	20547	2 lbs.	$54.95
	Driftwood	30	20548	20549	20550	20551	2 lbs.	$54.95
		32	20552	20553	20554	20555	2 lbs.	$54.95
		34	20556	20557	20558	20559	2 lbs.	$54.95
		36		20560	20561	20562	2 lbs.	$54.95
	Maple	30	20563	20564	20565	20566	2 lbs.	$54.95
		32	20567	20568	20569	20570	2 lbs.	$54.95
		34	20571	20572	20573	20574	2 lbs.	$54.95
		36		20575	20576	20577	2 lbs.	$54.95

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Arborwear® Hiram Pullover
2817

The 1/4 zip, Hiram Pullover is made from a 25% Wool/25% Acrylic/50% Polyester Blend, with Bonded Mesh Lining. Features include a zippered chest pocket, a zippered arm stash pocket, and flatlock seams. **Color:** Charcoal.

	Charcoal
Small	20513
Medium	20514
Large	20515
X-Large	20516
XX-Large	20517
Weight	4 lbs.
Each	$104.95

Arborwear® 1/4 Zip Tech Pullover
2811

Perfect as a base or top layer, this 15% Cotton/85% Polyester blend wicks moisture away from the skin to keep you cooler, drier and working longer. DriRelease® and odor neutralizer, FreshGuard®, work together to absorb moisture and quickly release it through the fabric and into the air. Dries 4 times faster than cotton. Other features include Siro spun, anti-pill, flatlock seams, and full side running gussets.

	Athletic Grey	Black
Small	20400	20405
Medium	20401	20406
Large	20402	20407
X-Large	20403	20408
XX-Large	20404	20409
Weight	2 lbs.	1 lb.
Each	$39.95	$39.95

Arborwear® Bodark Vest
8459

This 12.5 oz. pre-washed, ringspun cotton canvas vest has a 280g fleece lining to keep your upper body warm while leaving your arms free to move around. Four zip pockets are ideally placed for easy access. Zip front with expandable side zips.

	Black	Chestnut	Diesel	Moss
Small	20220	20225	20230	20235
Medium	20221	20226	20231	20236
Large	20222	20227	20232	20237
X-Large	20223	20228	20233	20238
XX-Large	20224	20229	20234	20239
Weight	2 lbs.	2 lbs.	2 lbs.	2 lbs.
Each	$64.95	$64.95	$64.95	$64.95

Arborwear® Hooded Double-Thick Pullover Sweatshirt
8458

Comfortable and warm, this sweatshirt features two layers of thick, 12 oz., 100% pre-shrunk cotton fleece for warmth, and gusseted armpits for freedom of movement. Snap closures at the neck keep the hood from falling off your head.

	Forest Green	Athletic Grey	Black	Chestnut	Navy
Small	20180	20467	20472	20477	20482
Medium	20181	20468	20473	20478	20483
Large	20182	20469	20474	20479	20484
X-Large	20183	20470	20475	20480	20485
XX-Large	20184	20471	20476	20481	20486
Weight	4 lbs.	4 lbs.	4 lbs.	4 lbs.	4 lbs.
Each	$79.95	$79.95	$79.95	$79.95	$79.95

Arborwear® Double Thick Full Zip Sweatshirt
2815

Two layers of thick, 12 oz. 100% pre-shrunk Cotton Fleece for warmth with gusseted armpits for freedom of movement. Full Zip front extends past chin for added coverage in colder weather. Other features include an interior zip pocket, two vertical hand warmer pockets, an oversized hood, and YKK® Vislon Zipper. Garment Washed.

	Black	Chestnut	Forest Green	Navy
Small	20447	20452	20457	20462
Medium	20448	20453	20458	20463
Large	20449	20454	20459	20464
X-Large	20450	20455	20460	20465
XX-Large	20451	20456	20461	20466
Weight	4 lbs.	4 lbs.	4 lbs.	4 lbs.
Each	$89.95	$89.95	$89.95	$89.95

Arborwear® Stretch Cambium Jacket
2814

Combining a 10 oz. cotton canvas exterior with 3% Spandex, this rugged jacket stretches throughout and offers outstanding mobility and breathability. Features a polyester fleece interior, four zippered pockets, and a durable water-repellent coating. Garment washed.

	Black	Chestnut
Small	20240	20245
Medium	20241	20246
Large	20242	20247
X-Large	20243	20248
XX-Large	20244	20249
Weight	4 lbs.	4 lbs.
Each	$114.95	$114.95

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31209

31217

RAM No-Drill Vehicle Laptop Mounts

8037

The RAM No-Drill™ Laptop Stand System installs quickly and easily using the existing hardware of the passenger side seat rails, providing a telescopic range from 12-18 inches. Dual swing arms provide articulation and 12 inches of reach for passenger and driver access to the mounted device.

Patented rubber ball and socket joint provides additional adjustment as well as shock and vibration isolation. The RAM Tough Tray™ is spring loaded to accommodate 10 to 16 inch wide laptops (17″ screens) and has four adjustable retaining arms that can be moved vertically and horizontally to custom fit varying heights of laptops without blocking ports or drives. Hole patterns on the tray perimeter facilitate mounting additional RAM systems to support GPS units or other devices.

Model	For	Weight	SN	$
RAM-VB-178-SW1	Dodge RAM Trucks (2008-Present)	14 lbs.	**31220**	**$231.48**
RAM-VB-102-SW1	Chevrolet 2500 C/K Truck (2000-2006), Chevrolet 3500 C/K Truck (2000-2006), Chevrolet Silverado Truck (1999-2006), Chevrolet Suburban SUV (2000-2006), Chevrolet Tahoe SUV (2000-2006), GMC Sierra Truck (2000-2006), GMC Yukon SUV (2000-2006)	17 lbs.	**31206**	**$246.30**
RAM-VB-104-SW1	Dodge RAM 1500 Truck (2002-2007), Dodge RAM 2500/3500 Truck (2003-2007). Will not fit if the truck has power take off.	21 lbs.	**31207**	**$254.75**
RAM-VB-110-SW1	Ford Expedition (1997-2003), Ford F-150 (1997-2003), Ford F-150 Heritage (2004), and Ford F-250 Light Duty (1997-2004)	21 lbs.	**31208**	**$267.17**
RAM-VB-109-SW1	Ford F-Series F-150 Truck (2004-Current), Lincoln Mark LT Truck (2005-Current). Will not fit if truck has slide out cup holder.	20 lbs.	**31209**	**$254.54**
RAM-VB-138-SW1	Toyota Tacoma (2005-Current), Toyota 4Runner (2003-Current)	17 lbs.	**31214**	**$244.99**
RAM-VB-159-SW1	Chevrolet Avalanche (2007-2013), Chevrolet Silverado - All Versions (2007-2013), Chevrolet Suburban (2007-2014), Chevrolet Suburban with Deluxe Power Seats (2007-2014), Chevrolet Tahoe (2007-2014), GMC Yukon (2007-2014), Hummer H2 (2007-2011), Equivalent GMC Models (2007-2014).	17 lbs.	**31217**	**$282.48**
RAM-VB-185-SW1	Ford F-250 (2012), F-250 Crew Cab & Super Cab (2011), F-350 (2012), F-350 Crew Cab & Super Cab (2011), F-450 (2012), F-450 Crew Cab (2011), F-550 (2011), F-650 (2011), F-750 (2011), Excursion (2000-2005), Excursion Limited (2000-2005)	16 lbs.	**31219**	**$246.03**
RAM-VB-193-SW1	Chevrolet Silverado 1500 (2014), Chevrolet Silverado 2500 (2015), Chevrolet Silverado 3500 (2015), Chevrolet Suburban (2015), Chevrolet Tahoe (2015), GMC Sierra 1500 (2014), GMC Sierra 2500 (2015), GMC Sierra 3500 (2015)	24 lbs.	**31265**	**$353.25**

Can't find your vehicle? Ask about a special order mount. Call 800-647-5368 for details.

Accessories

Screen Support for Laptop Mount	5 oz.	**31210**	**$15.62**
Security Kit for Laptop Mounts	15 oz.	**31224**	**$51.05**
USB Tough Hub	14 oz.	**31225**	**$82.36**

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New! RAM® Universal X-Grip Cradles
4019

The X-Grip™ design expands and contracts making a perfect custom fit for your device. Consists of a double socket arm, universal spring loaded X-Grip™ holder, and a 1″ diameter patented rubber ball and socket system with adjustment points for positioning the X-Grip mount for optimum viewing.

Universal X-Grip Cell Phone Cradle – Cradle Dimensions: Minimum width, 1.875″; Maximum width, 3.25″; Depth, 0.875″.	3 oz.	**31204**	**$21.57**
Universal X-Grip IV Large Phone Cradle – Cradle Dimensions: Minimum width, 1.75″; Maximum width, 4.5″.	3 oz.	**31226**	**$22.46**
Universal X-Grip II Tablet Cradle for Small 7″ tablets – Cradle Dimensions: Minimum width, 2.25″ (Devices 2.25″ in width must be a minimum of 7″H to fit); Maximum width, 5.75″; Depth, 0.875″.	4 oz.	**31227**	**$27.05**
Universal X-Grip III Tablet Cradle for Large 10″ Tablets – Cradle Dimensions: Minimum width, 6.25″; Maximum width, 8.1″; Depth, 0.875″; Maximum Length (using additional supports included): 10.25″.	1 lb.	**31228**	**$66.92**

31204

31226

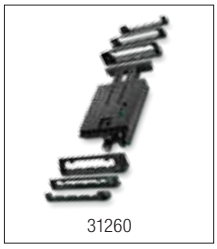
31227

31228

New! RAM® Universal Tablet Cradles
4019

Tab-Tite Universal Clamping Cradle for 10″ screen tablets – 2 Sets of interchangeable cup ends, ranging from different sizes and features, allows custom fit to your tablet. Spring-loaded design makes loading and unloading tablet easy and keep it secure. Cup ends allow access to audio jacks, USB, power, and other ports. Compatible Devices: 10″ Tablets with Lifeproof nüüd Cases, 10″ Tablets with Lifedge cases, 10″ Tablets with heavy-duty cases, Apple iPad Models 1, 2, 3 and 4.	11 oz.	**31229**	**$33.56**
Tab-Tite Universal Small Clamping Cradle for 7″ screen tablets – 3 Sets of interchangeable cup ends, ranging from different sizes and features, allows custom fit to your tablet. Spring-loaded design makes loading and unloading tablet easy and keep it secure. Cup ends allow access to audio jacks, USB, power, and other ports. Compatible with the following tablets with or without skins, sleeves or cases: Archos 7, Asus EEE Pad Memo, Asus Tough-ETBW11AA, Barnes and Noble NOOKcolor, BlackBerry PlayBook, Dell Streak 7, HTC Flyer, Google Nexus 7, and Samsung Galaxy.	8 oz.	**31238**	**$30.98**
Tab-Lock Universal Clamping Cradle for 10″ screen tablets – The Tab-Lock™ feature also locks it in place keeping it secure and in your possession. Spring-loaded and form-fitting, this holder is compact, yet durable. Compatible with the following tablets with or without skins, sleeves or cases: Apple iPad, Apple iPad 2, Apple iPad 3 and Apple iPad HD; Asus EEE Pad; Asus EEE Pad Transformer; HP TouchPad; Lenovo LePad Slate; LG G-Slate; LG Optimus Pad; Motorola XOOM; Motorola XOOM2 10.1; Pandigital R90A200; Samsung Galaxy Tab 8.9; Samsung Galaxy Tab 10.1; Samsung Galaxy Tab 2 10.1; and Toshiba Thrive.	1 lb.	**31239**	**$63.93**
Tab-Lock Universal Small Cradle for 7″ screen tablets – The Tab-Lock™ feature also locks it in place keeping it secure and in your possession. Spring-loaded and form-fitting, this holder is compact, yet durable. Compatible with the following tablets with or without skins, sleeves or cases: Archos 7, Asus EEE Pad Memo, Asus Tough - ETBW11AA, Barnes & Noble NOOKcolor, BlackBerry PlayBook, Dell Streak 7, Google Nexus 7, HTC Flyer, and Samsung Galaxy.	1 lb.	**31260**	**$61.59**

31229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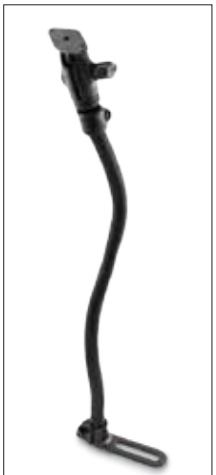
RAM® Mount Bases
4019

New! RAM POD Universal No-Drill Mount with 18″ Rod, Diamond Adapter Base – Connects to the seat rail - no drilling necessary. The 18″ rod can be bent to position device to its optimum viewing location. Features a diamond adapter base consisting of a 1″ diameter rubber ball connected at right angles to a 2.43″ x 1.31″ diamond base. The base has two holes 1.912″ from center to center and will connect to a large variety of RAM Mount and third party cradles.	1 lb.	**31263**	**$42.91**
New! RAM POD Universal No-Drill Mount with 18″ Rod, Locking Knob & Round Adapter Base – Connects to the seat rail - no drilling necessary. The 18″ rod can be bent to position device to its optimum viewing location. Features a locking knob and round base adapter. The locking knob includes a brass 1/4″-20 thread, allowing you to disengage the screwing of the knob once it is set in the desired position. The 2.5″ diameter round base adapter contains the universal AMPS hole pattern.	2 lbs.	**31264**	**$58.39**
New! RAM-A-CAN II Universal Cup Holder Mount – Conforms to most vehicle cup holders thanks to flexible support fins. Consists of a double socket arm, two diamond bases and RAM-A-CAN II cup holder base.	6 oz.	**31262**	**$43.21**
RAM 2.5″ Dia. Screw-In Mount – Use for permanent flat surface installations, plate has 4 holes that match the universal AMPS hole pattern.	6 oz.	**39135**	**$17.46**
RAM 2.5″ U-Bolt Mount – For bars up to 2.5″ diameter	8 oz.	**39136**	**$34.00**
RAM 1.25″ U-Bolt Mount – For bars up to 1.25″ diameter	5 oz.	**39206**	**$28.55**
RAM Suction Cup Mount with 1″ Ball – Use to attach mount to windshields, etc.	4 oz.	**39189**	**$30.49**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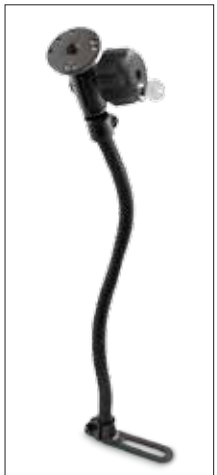
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31262

39135

New! RAM® Self Leveling Beverage Cradle
4019

Installs easily and keeps your favorite beverage positioned within reach and level to prevent spills. Perfect for any vehicle. 1″ Rubber ball "B" size. Base sold separately.

Self Leveling Beverage Cradle with 1″ Ball	7 oz.	**31261**	**$17.54**

39136

39206

39189

GPS Receivers
pages 40 thru 47

Better Built® Side-Mount Box
page 721

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Uncle Mike's® Deluxe Car Seat Organizer

3800

Center section features a handy cooler with a three-sided zipper.

This deluxe organizer secures to your car seat using tuck-in straps. A spacious, divided rear section separates and holds your files. In the front section, you'll find specialized compartments for your pens, cards, and cell phone. A front zippered compartment is ideal for storing smaller items. Made of durable foam-molded 600D polyester. Black.

Uncle Mike's Deluxe Car Seat Organizer	2 lbs.	**35397**	**$43.50**

Uncle Mike's® Hanging Car Seat Organizer

3800

Keeps everything you need within arm's reach!

Organizer sits flat against the seat back and holds everything from pens and papers to 2-liter bottles and flashlights! Adjustable strap secures the organizer to the headrest while in the vehicle and serves as a shoulder/carry strap when outside. The accordion-type main compartment is great for files, papers, and notebooks while the large open-top side compartments hold 2-liter water bottles, thermos bottles, flashlights, etc. Front pouches accommodate radios, cell phones, pens and markers. Zippered center compartment keeps small or personal items secure. Made with 1200 denier PVC coated nylon fabric for superior durability and water repellency. Black.

Uncle Mike's Hanging Car Seat Organizer	3 lbs.	**35367**	**$43.25**
		3+	**$39.75**

The Partner Truck Desk Systems

6268

Stay organized wherever you go!

Store commonly used items (cellular phones, two-way radios, calculators, etc.) and organize office supplies in this efficient vehicle work area with a built-in clipboard. Desk is secured with durable nylon straps. Constructed of laminated, medium density fiber board.

The Partner Model 10-4000

Fits full size trucks with bench seat and automatic transmission. Features four removable shelves and a large storage compartment.

Model 10-4000, Dimensions: 21.5˝L x 14˝W x 9˝H.	O	19 lbs.	**31200**	**$161.95**

The Partner Model 10-7000 Bench 12

Fits sedans, wagons, small to mid-size trucks, and small to mid-size SUVs with bench seats. Features two cup holders and a large storage compartment. **Dimensions:** 20˝L x 14.75˝W x 9.5˝H.

Model 10-7000 Bench 12	O	21 lbs.	**31202**	**$161.95**

AutoExec® Auto Desks

7264

Turn your vehicle into an organized, efficient mobile working environment! Designed for using a laptop and writing while working in your vehicle, these ergonomic working solutions also have file storage space. Desks are easily secured with the seat belt.

RoadMaster Truck Desk

Secures your laptop while mounted on to the desk surface. Measures 25.25˝L x 25˝W x 11˝H (The laptop plate extends the computer another 3˝ from the edge of each model's work surface). Includes 400 watt inverter with 12V DC adapter. **Weight:** 14.2 lbs.

RoadMaster Truck Desk	O	18 lbs.	**31230**	**$295.95**

GripMaster Desk

The added grip keeps your laptop from sliding while on the desk surface. Measures 25.25˝L x 17˝W (29˝W with pull-out writing surface) x 11˝H. **Weight:** 16 lbs.

GripMaster Desk	19 lbs.	**31231**	**$201.25**

Garmin® nüvi® 55 Automotive GPS
page 50

Desktop. Tablet. Mobile.
Forestry-suppliers.com

O Ships at Oversize rate. See Shipping Information for details.

[search engine powered by magazooms.com]

FILSON Since 1897

New! Filson® Twill Original Briefcase

Made in USA

4920

Tough enough for everyday use in the field, this water-repellent briefcase is constructed of 22 oz. 100% cotton oil-finish twill. Features two full-length interior open pockets, one interior business card pocket, one interior calculator/cell phone pocket, two full-width exterior open side pockets, two small exterior end utility pockets, an interior brass clasp for securing keys, and a bridle leather carrying/hanging loop. A two-way brass zipper with leather pulls combines with a storm flap featuring a bridle leather snap tab closure to keep contents secure. Meets airline carry-on requirements. Made in USA. **Dimensions:** 16˝W x 12-1/2˝H x 4˝D.

Filson Twill Original Briefcase 3 lbs.	**22750**	**$248.00**

New! Filson® Twill Padded Laptop Briefcase

Made in USA

4920

This briefcase features a high-density foam padded compartment for a laptop. Full-width open pockets on each side and end pockets offer easy access to small items. Four interior full-length sections are all tall enough to accommodate a standard writing pad vertically. In the zippered front compartment are slots and pockets for your cell phone, pens, and tools. Constructed of 22 oz. 100% cotton oil-finish twill with a double bottom. Two-way brass zipper with leather pulls, a storm flap with a bridle leather snap tab closure, and an adjustable, removable leather shoulder strap. Meets airline carry-on requirements. Made in USA. **Dimensions:** 16-1/2˝W x 14˝H x 7-1/2˝D.

Filson Twill Padded Laptop Briefcase 5 lbs.	**22752**	**$358.00**

New! Filson® Twill Large Briefcase/ Computer Case

Made in USA

4920

This roomy briefcase features a non-padded laptop compartment, two full-length interior open pockets, an interior business card pocket, an interior calculator/cell phone pocket, two full-width exterior open side pockets, and two small exterior end pockets. Constructed of 22 oz. 100% cotton oil-finish twill, the water-repellent briefcase features a durable double bottom, a two-way brass zipper with leather pulls, a storm flap with a bridle leather snap tab closure, and a removable leather shoulder strap. Meets airline carry-on requirements. Made in USA. **Dimensions:** 16˝W x 12-1/2˝H x 6˝D.

Filson TwillLarge Briefcase/Computer Case 4 lbs.	**22751**	**$300.00**

Forestry Suppliers, Inc. Forester's Clipboard

6906

Features tables for Doyle, Scribner, and International Log Rules.

This clipboard also has convenient lumber conversion tables, including volume equivalents for lumber, volume conversion factors for lumber, and a diameter-to-circumference conversion table. Constructed of recycled plastic. Standard spring-action clip.

Forester's Clipboard 11 oz.	**53000**	**$9.95**
	6+	**$9.70**

Hardboard Clipboard

1166

Made of 1/8˝ masonite hardboard with a smooth finish on both sides. Equipped with a standard spring-action clip. 9˝ x 12-1/2˝.

Hardboard Clipboard 9 oz.	**53432**	**$2.45**
	12+	**$1.70**

Neon Clipboard

1167

Made of acrylic. Neon yellow. 8-1/2˝ x 12˝.

Neon Clipboard 9 oz.	**53430**	**$7.60**
	12+	**$6.50**

Rite in the Rain® Loose Leaf Paper page 555

Rite in the Rain® All-Weather Pens page 555

GERBER

Manufacturer's Warranty Lifetime

Made in USA

New! Gerber Impromptu Tactical Pen

4806

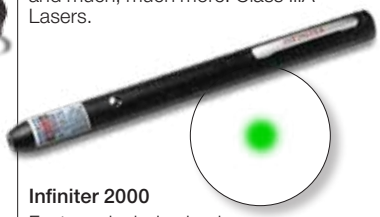
Constructed of rugged machined steel with a tempered window-shattering tip design, the Impromptu Tactical Pen can be used to break a windshield or defend yourself from an unexpected attack. Genuine "Rite in the Rain" cartridge allows writing in wet or dry conditions. Backed by Gerber's legendary Lifetime Warranty. Made in the USA.

Gerber Impromptu Tactical Pen	4 oz.	**49230**	**$50.75**
		3+	**$46.95**
No. 37R, Black Ink Refill	1 oz.	**49238**	**$8.25**
		12+	**$6.95**

Green Laser Pointers

8107

Use these super-powerful green laser pointers to propose cable locations, branches to be pruned, a crotch for throw line, hazards such as bees or hollows, areas of decay and much, much more. Class IIIA Lasers.



Infiniter 2000

Features include aluminum construction with thin rubber coating and a convenient, push-button switch. Class III A laser. FDA Approved.

Wavelength: 532nm. **Range:** 1,000 yards. **Dimensions:** 6.4˝ x 0.50˝. **Batteries:** 2 AAA (included, last up to 4 hours).

Infiniter 2000 Green Laser Pointer 6 oz.	R97	**02471**	**$74.95**

GreenBeam 50

Made of aerospace grade aluminum, this tactical laser pointer was designed with the working environment of the military in mind. True daylight visibility allows rapid deploying teams to accurately communicate critical target and obstacle positions. Class III A laser. CE FDA Approved.

Wavelength: 532nm. **Range:** Daytime, 100 meters; Nighttime, 1 mile. **Dot Size:** Smaller than 2˝ precision dot at 100 yards. **Shock-Resistant and Waterproof:** up to 20 meters. **Dimensions:** 7.5˝L x 1˝W x 0.75˝H. **Batteries:** 2 AA (included, last up to 6 hours).

BeamShot GreenBeam 50 Laser Pointer 6 oz.	R97	**02473**	**$99.95**

Red Laser Pointer

5984

Captivate and focus the attention of your audience!

Push button at the front of the pointer allows for better stability. 5mW Class IIIA laser. Aluminum.

Wavelength: 640nm to 660nm. **Range:** 500 yards. **Dimensions:** 6.4˝ x 0.50˝ dia. **Power:** two AAA cell batteries (included, last up to 40 hours).

Red Laser Pointer 3 oz.	R	**02472**	**$16.25**

R97 Cannot be sold in Germany.

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Saunders Redi-Rite Sheet Holder

1152

Made in USA

Storage for a 1-1/2″ stack of forms or paper – three times more than most sheet holders!

Smooth, hard writing surface. Pen and pencil tray. Cover doubles as writing surface and protective cover for stored forms. Angled clip holds cover shut. Sturdy form clamp outside on the 8-1/2″ edge. Recycled aluminum. Made in the USA.

Holds forms 8-1/2″ x 12″	2 lbs.	**53280**	**$27.75**
		6+	**$26.25**
Holds forms 8-1/2″ x 14″	2 lbs.	**53281**	**$30.50**
		6+	**$28.95**

Saunders Redi-Rite with Calculator

1156

For even more convenience, try the Redi-Rite with an attached standard calculator on the clipboard. Holds forms 8-1/2″ x 12″.

Redi-Rite with Calculator	2 lbs.	**53435**	**$41.25**
		6+	**$38.25**

Saunders Cruiser Mate Sheet Holder

1153

Made in USA

Two storage compartments hold a 1″ stack and a 7/16″ stack, respectively (inner compartment may be removed to accommodate one large stack). Sturdy latch holds both storage compartments closed; each opens separately. Protective cover also serves as a clipboard. Recycled aluminum. Made in the USA.

Holds forms 8-1/2″ x 12″, Black	2 lbs.	**53282**	**$30.95**
		6+	**$28.95**
Holds forms 8-1/2″ x 12″, Silver	2 lbs.	**53161**	**$30.95**
		6+	**$28.75**
Holds forms 8-1/2″ x 14″, Silver	3 lbs.	**53283**	**$33.95**
		6+	**$31.50**

Saunders Tuff Writer Aluminum Sheet Holder

4720

Made in USA

Allows easy, one-handed access to the 1″ storage compartment. Made from recycled aluminum, it can withstand the demands of everyday use. Features include a premium, low-profile clip that can hold up to a 1/2″ stack of paper; self-locking latch that keeps the compartment securely fastened; and it holds paper up to 8-1/2″ x 12″. Made in the USA.

Holds forms 8-1/2″ x 12″	2 lbs.	**53181**	**$31.50**
		6+	**$28.95**

Sheet Holder	SN	Compartments	Holds	Stack	Clamp Edge
Redi-Rite	**53280**	1	8-1/2″ x 12″	1-1/2″	8-1/2″
	53281	1	8-1/2″ x 14″	1-1/2″	8-1/2″
Redi-Rite with Calculator	**53435**	1	8-1/2″ x 12″	1-1/2″	8-1/2″
Cruiser Mate	**53282 & 53161**	2	8-1/2″ x 12″	1″ & 7/16″	8-1/2″
	53283	2	8-1/2″ x 14″	1″ & 7/16″	8-1/2″
Tuff Writer Aluminum	**53181**	1	8-1/2″ x 12″	1/2″	8-1/2″

Forestry Suppliers, Inc. Forester's Clipboard

6906

Features tables for Doyle, Scribner, and International Log Rules.

This clipboard also has convenient lumber conversion tables, including volume equivalents for lumber, volume conversion factors for lumber, and a diameter-to-circumference conversion table. Constructed of recycled plastic. Standard spring-action clip.

Forester's Clipboard, 9″ x 12-1/2″	11 oz.	**53000**	**$9.95**
		6+	**$9.70**

Saunders Book Type Loose Sheet Holder

1155

Made in USA

Smooth backing piece for easy writing.

Sturdy clip with E-Z open swivel bar holds forms while in use. Hinged strap holds forms tightly in storage compartment. Made from recycled aluminum. Clip holds 3/8″, storage holds 7/16″. Clip is on 8-1/2″ side. Made in the USA.

Holds Paper Size 5-2/3″ x 9-1/2″	15 oz.	**53240**	**$20.25**
		6+	**$18.50**
Holds Paper Size 8-1/2″ x 12″	2 lbs.	**53270**	**$28.25**
		6+	**$26.75**
Holds Paper Size 8-1/2″ x 14″	2 lbs.	**53272**	**$32.75**
		6+	**$30.75**

Saunders RingMate Storage Clipboard

7667

Ideal for presentations, the locking hinge of this storage clipboard allows it to double as an easel stand. Durable polypropylene construction with strong, low profile clip with rubber grips for holding up to 1/2″ of paper securely. Internal, sturdy, D-style, 3-ring binder holds 1″ capacity. Also features an internal clip for holding documents, writing instruments and business cards. Storage area is wide enough for file folders. Snaps closed to keep materials protected from weather. 13.5″H x 11.25″W x 2.25″D.

Saunders RingMate Storage Clipboard	2 lbs.	**53206**	**$16.50**

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Saunders Storage Access Holder
1158

Made in USA

Fold-over writing plate prevents write-through onto forms.

Storage compartment holds 3/8″ stack of papers. Strong metal clip holds papers and forms in place. Sturdy piano hinge, smooth, rounded corners. Made from recycled aluminum. Clip is on 8-1/2″ side. Made in the USA.

Holds Paper Size 5-2/3″ x 9-1/2″	14 oz.	**53160**	**$19.25**
		6+	**$17.50**
Holds Paper Size 8-1/2″ x 12″	1 lb.	**53190**	**$28.75**
		6+	**$26.50**
Holds Paper Size 8-1/2″ x 14″	2 lbs.	**53192**	**$32.95**
		6+	**$29.75**

Saunders Sheet Holder Without Storage
1159

Made in USA

Protective cover keeps your papers and forms clean, dry and legible.

Clip with E-Z open swivel bar. Sturdy piano hinge. Capacity 7/16″ stack. Made from recycled aluminum. Made in the USA.

Holds forms 8-1/2″ x 12″	13 oz.	**53420**	**$20.25**
		6+	**$18.25**

Saunders Top-Cover Clipboards
1160

Made in USA

Holds 1/2″ stack. Clips on 5-1/2″ or 8-1/2″ side, depending on model. Recycled aluminum construction. Made in the USA.

Holds forms 5-1/2″ x 8-1/2″	10 oz.	**53424**	**$27.50**
		6+	**$25.25**
Holds forms 8-1/2″ x 12″	2 lbs.	**53426**	**$32.25**
		6+	**$29.95**

Holder	SN	Compartments	Holds	Stack	Clamp Edge
Storage Access	**53160**	1	5-2/3″ x 9-1/2″	3/8″	5-2/3″
	53190	1	8-1/2″ x 12″	3/8″	8-1/2″
	53192	1	8-1/2″ x 14″	3/8″	8-1/2″
Sheet Holder without Storage	**53420**	–	8-1/2″ x 12″	7/16″	8-1/2″
Clipboard with Top Cover	**53424**	–	5-1/2″ x 8-1/2″	1/2″	5-1/2″
	53426	–	8-1/2″ x 12″	1/2″	8-1/2″

Made in USA

Saunders SlimMate
8041

Thin, low-profile design is perfect for minimizing bulk yet allows plenty of storage space and a nice, large, smooth work surface. Features a low-profile clip with integrated rubber grip pads to hold materials firmly and safely. The cover snaps shut to keep items in and weather out. Made from durable polypropylene. Holds paper size 8-1/2″ x 11″. Made in the USA.

SlimMate, Black 15 oz.	**53203**	**$11.75**
	6+	**$9.50**
New! SlimMate, Orange 1 lb.	**53295**	**$11.75**
	6+	**$9.50**
New! SlimMate, Clear 1 lb.	**53296**	**$11.75**
	6+	**$9.50**

Saunders Workmate Portable Desk
8042

A compact, portable storage box and work surface all in one unit!

A compact, portable storage box and work surface all in one unit! Features include a low-profile, nickel-plated steel spring clip with rubber corner grips, a reversible internal clip that holds documents, writing instruments and business cards, and the cover snaps closed to keep materials safe from the weather. 1″ Storage capacity holds up to 100 sheets of paper. Made from rugged, lightweight polypropylene. Holds paper size 8-1/2″ x 11″.

Workmate Portable Desk 2 lbs.	**53204**	**$15.50**
	6+	**$13.50**

Saunders Deskmate II Portable Desk
8040

Ideal for anyone who uses forms or note pads wherever they go. The low-profile clip has integrated rubber grip pads to hold materials firmly and safely while the large internal storage compartment protects materials from the weather. Made from durable polypropylene. Holds paper size 8-1/2″ x 11″.

Deskmate II Portable Desk 2 lbs.	**53202**	**$14.25**
	6+	**$12.25**

Saunders Deskmate II with Calculator
8039

This Deskmate II clipboard has a solar-/battery-powered calculator with an easy-to-read LCD screen. Other features include a large, internal storage compartment to protect materials from the weather, a snap-shut cover, and an exterior low-profile clip with integrated rubber grip pads. Made from durable polypropylene. Holds paper size 8-1/2″ x 11″.

Deskmate II with Calculator, Orange 2 lbs.	**53201**	**$16.25**
	6+	**$14.50**
New! Deskmate II with Calculator, Black 1 lb.	**53285**	**$16.25**
	6+	**$14.50**

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Stake Wire Marking Flags

Plain with Wire Stakes
1115

With steel wire stakes. 100-Flag bundles.

Plain with PVC Stakes
1120

These flags have 24″ PVC stakes that spring back into shape if run over. Plain color flags (non-fluorescent) measure 4″ x 5″. 100-Flag bundle.

Fluorescent Plain with Wire Stakes
1116

With steel wire stakes. 100-Flag bundles.

Biodegradable Flags With Wooden Stakes
7279

4″ x 5″ flags with 24″ wooden stakes. Bundle of 50.

Biodegradable Flags
With Wooden Stakes

Custom Printed Wire Flags

Let us be your supplier of Private Label Flags!

We offer custom printing on Wire and PVC Stake Flags. Create your own custom flags with company promotional information or specific messages that apply to any application. For sizes and colors available, call toll-free 1-800-647-5368. Need a repeat order? We have your specifications on file.

Flag Size	Stake	L	Red	Orange	Yellow	Green	Blue	White	Fluorescent Orange	Fluorescent Pink	Fluorescent Lime	Weight	Bundle	10+	50+
2-1/2″ x 3-1/2″	Wire	15″	33500	33501	33502		33504	33505	33506	33507	33508	2 lbs.	$6.05	$5.35	$4.85
	Wire	18″	33550	33551	33552		33553	33554	33555	33556	33557	2 lbs.	$6.55	$5.85	$5.30
	Wire	21″	39229	39288	39289		39287	39456	33739	33702	33701	2 lbs.	$6.85	$6.10	$5.50
	Wire	30″	39292	39291	39293		39290	39547	33743	33704	33703	3 lbs.	$8.25	$7.10	$6.70
	Wire	36″	33509	33510	33511		33513	33514	33515	33516	33517	3 lbs.	$9.20	$7.95	$7.35
4″ x 5″	Wire	18″	33560	33561	33562		33563	33564	33565	33566		2 lbs.	$7.20	$6.60	$5.95
	Wire	21″	33518	33519	33520	33521	33522	33523	33524	33525		2 lbs.	$7.45	$6.85	$6.15
	PVC	24″	33786	33789	33788		33790	33787				2 lbs.	$11.25	$9.80	$8.50
	Wire	30″	39550	39549	39551		39548	39552	33766	33706		3 lbs.	$8.85	$8.00	$7.20
	Wire	36″	33757	33756	33758		33755	33759	33768	33708		3 lbs.	$9.85	$8.90	$8.00
5″ x 8″	Wire	36″	33736	33740	33738		33741	33737	33744	33745		4 lbs.	$10.40	$9.15	$8.45
													Bundle	10+	20+
Biodegradable 4″ x 5″	Wood	24″					57604		57602	57606		7 oz.	$18.75	$16.75	$15.75

Stake Wire Flag Probe and Carrier
1118

Makes staking easier, especially in hard or frozen ground.

Sturdy steel pipe has a pointed end and a foot rest to help punch holes with less effort. Pipe holds up to 100 flags. 4-7/8″L x 1/4″ dia. steel point reverses and stores in tube. **Total probe length:** 30″.

Probe/Carrier 2 lbs.	33773	$31.90
Replacement Point 4 oz.	33774	$4.45

Stake Wire Flag Carrier
1117

Holds 200 stake wire flags. Sturdy Cordura® fabric with hand loop and shoulder strap.

Carrier for 15″ stakes 3 oz.	39579	$9.95
Carrier for 21″ stakes 3 oz.	39585	$11.50
Carrier for 30″ stakes 5 oz.	39586	$12.50

"CAUTION BURIED CABLE" Stake Wire Flags
1127

Black letters on 4″ x 5″ red vinyl flag. Wire stakes. Bundle of 100.

21″ Wire Stake, Red	2 lbs.	33711	$10.90
	10+		$9.15

"CAUTION PESTICIDE APPLICATION" PVC Stake Flags
1125

Pesticide application warning flags are 4″ x 5″ with 24″ PVC stakes that spring back when run over. Price for 100 Flags (2 bundles of 50).

24″ PVC Stake, Fluorescent Orange	2 lbs.	33527	$13.60
	10+		$11.45

"WETLAND DELINEATION" Stake Wire Flags
1126

Used in wildlife/biology research and environmental impact studies. 4″ x 5″ fluorescent pink flag with black letters. Bundle of 100.

21″ Wire Stake, Fluorescent Pink	2 lbs.	33635	$10.90
	10+		$9.15
30″ Wire Stake, Fluorescent Pink	3 lbs.	33636	$12.00
	10+		$10.30

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Fiberglass Survey, Field & Utility Markers
5784

Ideal for identifying property boundaries, gas pipelines, telephone cables, valve boxes, manholes, right of way easements, meter locations, golf courses, etc. Weather-resistant, each marker is made of lightweight, continuous glass fiber reinforced composite which is extremely UV resistant and temperature stable. For easy installation, use the optional post driver (sold separately). Custom labels and colors can be special ordered. Call for details.

Marker	Dimensions	Color		Weight	SN	Each	20+	50+
Fiberglass Survey Marker	66″L x 2-5/8″W	Orange	X	2 lbs.	**39220**	**$18.95**	**$15.95**	**$14.75**
Fiberglass Wetland Marker	66″L x 3-3/4″W	Brown	X	3 lbs.	**38852**	**$21.95**	**$18.95**	**$17.60**
New! Fiberglass Caution Gas Pipeline Marker	66″L x 3-15/16″W	Yellow	X	3 lbs.	**38853**	**$21.95**	**$18.95**	**$17.60**
Fiberglass Caution Sewer Utility Marker	66″L x 3-3/4″W	Green	X	3 lbs.	**38851**	**$21.95**	**$18.95**	**$17.60**
Fiberglass Caution Water Utility Marker	66″L x 3-3/4″W	Blue	X	3 lbs.	**38850**	**$21.95**	**$18.95**	**$17.60**
Fiberglass Utility Marker	66″L x 3-3/4″W	Orange	X	3 lbs.	**39221**	**$19.95**	**$16.85**	**$15.60**
Fiberglass Utility Marker	66″L x 3-3/4″W	Green	X	3 lbs.	**38847**	**$19.95**	**$16.85**	**$15.60**
Fiberglass Utility Marker	66″L x 3-3/4″W	Blue	X	3 lbs.	**38848**	**$19.95**	**$16.85**	**$15.60**
Fiberglass Utility Marker	66″L x 3-3/4″W	Red	X	3 lbs.	**38849**	**$19.95**	**$16.85**	**$15.60**

Note: "Survey," "Wetland," "Caution Gas Pipeline," "Caution Sewer Pipeline," and "Caution Water Pipeline" Markers include label. Custom labels and colors can be special ordered. Call for details.

Stake Whiskers
1128

Identify surveyed points or construction locations of highways, roads, or buildings.

The 5-1/2″ flexible plastic tops spring back if run over, eliminating the time and expense of re-staking. Fit all wood stakes. Bundle of 25.

Blue	Red	Yellow	Orange	Green	Pink	Weight	Bundle of 25	20+	50+
33775	**33776**	**33777**	**33778**	**33779**	**33780**	5 oz.	**$3.45**	**$2.95**	**$2.85**

Wood Survey Stakes
1129

Durable, long-lasting stakes are cut from Southern yellow pine. Points are saw-formed to ensure all sides are equal so stakes drive straight.

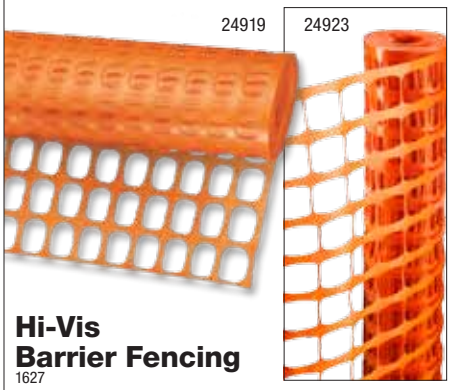
Type	Bundle	Nominal Size	Weight	SN	1-4	5+
Flats	50	1″x 2″x 6″	6 lbs.	**39515**	**$12.25**	**$11.25**
	50	1″x 2″x 12″	13 lbs.	**39514**	**$12.50**	**$11.10**
	50	1″x 2″x 18″	20 lbs.	**39516**	**$16.75**	**$14.40**
	50	1″x 2″x 36″	40 lbs.	**39520**	**$31.25**	**$28.15**
	50	1″x 2″x 48″	54 lbs.	**39523**	**$39.95**	**$36.65**
Hubs	25	2″x 2″x 6″	4 lbs.	**39511**	**$11.75**	**$10.50**
	25	2″x 2″x 12″	11 lbs.	**39512**	**$11.50**	**$10.25**
	25	2″x 2″x 18″	18 lbs.	**39513**	**$15.25**	**$13.95**
Guard Stakes	50	1″x 1″x 36″	16 lbs.	**39517**	**$24.25**	**$21.95**
	50	1″x 1″x 48″	22 lbs.	**39519**	**$32.25**	**$29.95**
	50	1″x 1″x 58″	30 lbs.	**39518**	**$41.75**	**$39.25**
Lathes	50	3/8″x 2″x 18″	11 lbs.	**39536**	**$12.50**	**$10.95**
	50	3/8″x 2″x 48″	26 lbs.	**39535**	**$26.95**	**$24.95**

Note: Due to manufacturing tolerances, the dimensions of these items may not be exact.
X Items 60″ or more require an additional handling charge.

Post Driver
5785

Use for installing your fiberglass boundary and utility markers (sold separately). Just insert the marker into the driver with the pointed end exposed. Then, rotate the driver into installation position and drive the marker into the soil with a series of light taps until you reach the desired depth.

Post Driver	20 lbs.	**39222**	**$175.95**



Hi-Vis Barrier Fencing
1627

Block off construction sites or dangerous areas!

High visibility temporary barrier fencing is UV stabilized to prevent fading. Resists corrosion and rot. Reusable. Hi-Vis Orange.

4′ x 100′ 12 lb. Non-Stretched Fence, 1.75″x 1.75″ Holes	12 lbs.	**24919**	**$29.95**
4′ x 100′ 8 lb. Stretched Fence, 2″x 2.75″ Holes	9 lbs.	**24923**	**$31.95**
		10+	**$26.50**
8″ Plastic Cable Ties, Bag of 1,000	3 lbs.	**17032**	**$29.25**
		3+	**$26.50**

Stake-Pro Stake Drivers
7748

Drive stakes safely and efficiently. Transfers the impact from each hammer blow through the continuous steel shaft making stake driving faster and easier. The tool shaft slides securely over the top of each stake ensuring a greater degree of angle control and accuracy. **Caution:** Always use appropriate safety gear when driving stakes of any type.

1″x 1″Stake Driver	2 lbs.	**39541**	**$21.95**
1″x 2″Stake Driver	2 lbs.	**39542**	**$21.95**
2″x 2″Stake Driver	3 lbs.	**39544**	**$23.99**
2″x 4″Stake Driver	4 lbs.	**39543**	**$23.99**

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True North® Flagging Dispenser
3828

This tough, durable flagging dispenser attaches easily to your belt and holds one roll of flagging. Made of cordura nylon, it features a heavy-duty YKK zipper and a brass dispensing grommet.

Flagging Dispenser		
3 oz.	**35965**	**$13.95**
	5+	**$12.95**

Tuff-Stuff™ Vinyl Glo Flagging
1131

2 mil

Fluorescent Glo flagging can be easily seen and is made of vinyl. 1-3/16˝W x 150´L per roll. Resists cold-cracking to -20°F.

Texas Brand Sunglo Vinyl Flagging
1130

3.5 mil

Fluorescent-like, bright colors for best visibility. Heavy vinyl. 1-3/16˝W x 150´L per roll. Not colorfast over long periods. Resists cold-cracking to -20°F.

Arctic Vinyl Flagging
1133

4.5 mil

Designed for use in extremely low temperatures! Cold crack resistant to -40°F. 1-3/16˝W x 150´L Per roll in three fluorescent-like glo colors.

2 Inch Vinyl Flagging
1138

4.5 mil Sunglo Colors

Fluorescent-like colors for best visibility. 2˝W x 150´L Per roll. Not colorfast over extended periods. Resists cold-cracking to -10°F.

Day Glo Colors

Brand	Weight	Pink	Yellow	Orange	Blue	Green	Red	Lime	Each	12+	48+	144+
Tuff-Stuff Vinyl Glo	4 oz.	**57905**	**57907**	**57908**	**57906**		**57909**		**$2.25**	**$1.45**	**$1.30**	**$1.05**
Texas Brand Sunglo	6 oz.	**57926**	**57930**	**57925**	**57928**	**57927**	**57929**	**57924**	**$2.30**	**$1.50**	**$1.35**	**$1.25**
Arctic Vinyl Flagging	9 oz.	**58046**		**58045**	**58047**				**$2.60**	**$1.85**	**$1.70**	**$1.55**
Brand	**Weight**	**Pink**	**Yellow**	**Orange**	**Blue**	**Green**	**Red**	**Lime**	**Each**	**7+**		
2 Inch Vinyl	10 oz.	**58012**		**58011**					**$4.60**	**$4.00**		

Coaxsher™ Dual Flagging Tape Dispenser
7412

DuPont® 1000 Denier Cordura®.

Dual Flagging Tape Dispenser, Holds one or two full rolls of flagging.		
1 oz.	**35948**	**$14.00**

Texas Brand Solid Color Vinyl Flagging
1132

2 mil

Our most colorfast flagging. 1-3/16˝W x 300´L per roll. Resists cold-cracking to -20°F.

Photodegradable Flagging
1135

2 mil

Environmentally safe, plastic flagging works hard up to six months, then photodegrades. Flagging is 1-3/16˝W x 150´L per roll. Resists cold-cracking to 0°F.

Plain Colors

Brand	Weight	Purple	Pink	Yellow	Orange	Blue	Green	Red	White	Black	Each	12+	48+	144+
Texas Brand	7 oz.		**57921**			**57910**	**57922**		**57920**	**57923**	**$2.30**	**$1.50**	**$1.35**	**$1.25**
	8 oz.	**57990**		**57900**	**57880**			**57890**			**$2.30**	**$1.50**	**$1.35**	**$1.25**
Photodegradable	3 oz.				**58043**						**$2.60**	**$1.85**	**$1.60**	**–**

Flagging Dispenser Bag
6428

This handy dispenser bag is great for using multiple rolls of flagging in the field! Made of Cordura®, it holds up to four rolls of flagging and features four slots across the front for tangle-free dispensing. Velcro® closure on flap.

Flagging Dispenser Bag		
6 oz.	**57376**	**$20.25**
	5+	**$18.95**

Taffeta Vinyl Flagging
1137

Fluorescent colors are 4.5 mil, solid colors are 2.5 mil

1-3/16˝W x 150´L Solid color and fluorescent glo flagging. Features heavy embossing. Resists cold-cracking to -10°F.

Wt.	Fluorescent Glo										
	Pink	Orange	Blue	Lime	Blue	Red	White	Each	12+	48+	144+
6 oz.	**57939**	**57935**	**57936**	**57937**	**57942**	**57943**	**57944**	**$2.25**	**$1.45**	**$1.30**	**$1.25**

Need a special width or color? Call 800-647-5368 for details.

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New! Checkered Flagging
4824

Brightly colored checkered flagging is easily seen at long distances. 2.0 mil Thick vinyl provides excellent colorfastness. 1-3/16˝W x 300´L per roll (Pink Glo/White is 1-3/16˝W x 150´L per roll). Resists cold-cracking to -20°F.

White/ Red	White/ Orange	Red/ Black	White/ Black	Yellow/ Black	Green/ Black	White/ Pink Glo	Weight	Each	12+	144+
57978	57979	57983	57986	57989	57992	57991	7 oz.	$2.65	$1.90	$1.60

Stripe Vinyl Flagging
6427

Easy-to-notice 1/2˝ stripes on front side. 2-mil Thick vinyl, excellent colorfastness. 1-3/16˝W x 300´L Per roll (Orange Glo, Pink Glo and Orange/ Silver Reflective 150´L per roll). Resists cold-cracking to -20°F.

	Weight	Blue	Red	Orange	Yellow	Orange Glo	Pink Glo	Each	12+	144+
Stripe on Black	7 oz.	57982	57985	57984	57981	57987	57988	$2.65	$1.90	$1.60
Stripe on White	7 oz.	57956	57946	57976				$2.65	$1.90	$1.60
Reflective Stripe (Silver)	5 oz.			57941				$3.00	$2.35	$2.00

Polka-Dot Vinyl Flagging
6429

Eye-catching 3/8˝ dots on front side. 2-mil Thick vinyl has excellent colorfastness. 1-3/16˝W x 300´L Per roll. Resists cold-cracking to -20°F.

Dot	Blue	Red	Orange	Green	Black	Weight	Each	12+	144+
On White	57972	57973	57974	57961	57966	7 oz.	$2.65	$1.90	$1.60
On Orange					57954	7 oz.	$2.65	$1.90	$1.60
On Red					57957	7 oz.	$2.65	$1.90	$1.60
On Yellow		57960			57958	7 oz.	$2.65	$1.90	$1.60
On Pink Glo					57977	7 oz.	$2.65	$1.90	$1.60

Job-Specific Printed Vinyl Roll Flagging
1139

Bright, fluorescent-glo vinyl flagging identifies test areas, dangerous sites and boundaries. Each roll of flagging is 2-mils thick x 1-1/2˝ wide x 150´ long. Different flagging types cannot be combined for price breaks.

		Description	Color	Weight	SN	Each	9+	108+
DO NOT CUT	DO NOT CUT	Identifies trees that should not be cut.	Pink Glo	6 oz.	57940	$2.95	$2.30	$2.00
WETLAND DELINEATION	WETLAND DELINEATION	Use for wildlife/biology research or environmental impact studies.	Pink Glo	6 oz.	57968	$2.95	$2.30	$2.00
PROPERTY LINE	PROPERTY LINE PROPER	Ideal for surveyors, contractors, builders, and property owners.	Pink Glo	7 oz.	57969	$2.95	$2.30	$2.00
TIMBER HARVEST BOUNDARY	TIMBER HARVEST BOUNDAR	Identifies timber harvest zones.	Pink Glo	6 oz.	57980	$2.95	$2.30	$2.00
RMZ BOUNDARY	RMZ	Designates riparian management zones.	Pink Glo	7 oz.	57975	$2.95	$2.30	$2.00
ESCAPE ROUTE	ESCAPE ROUTE	Use to mark escape routes.	Pink Glo	6 oz.	57965	$2.95	$2.30	$2.00
KILLER TREE	KILLER TREE KILLER TREE	Alerts others to the presence of a dangerous tree or stand of trees.	Orange Glo	7 oz.	57967	$2.95	$2.30	$2.00
SMZ BOUNDARY	STREAMSIDE MANAGEMENT ZONE	Identifies streamside management zones.	Orange Glo	6 oz.	57970	$2.95	$2.30	$2.00
SPOT FIRE	FIRE SPOT FIRE	Identifies spot fire.	Orange Glo	6 oz.	57955	$2.95	$2.30	$2.00
HAZARD – CAUTION	HAZARD CAUTION	Use to mark hazards and special safety items.	Yellow Glo	3 oz.	57959	$2.95	$2.30	$2.00
SKID TRAIL	SKID TRAIL SKID T	Identifies skid trails.	Yellow Glo	8 oz.	57964	$2.95	$2.30	$2.00
INVASIVE PLANT	INVASIVE PLANT	Identifies plants and areas containing invasive species.	Pink Glo	8 oz.	57948	$2.95	$2.30	$2.00
INVASIVE SPECIES	INVASIVE SPECIES	Identifies plants and areas containing invasive species.	Orange Glo	8 oz.	57949	$2.95	$2.30	$2.00

100% Wood Fiber Enviro-Flagging™
1136

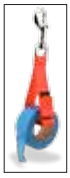
The ideal way to support the environment, this flagging is made of wood fiber and biodegrades in one year in the open or six weeks if buried. Durable to -40°F (-40°C). The color dye in the flagging is non-toxic and will not bleed when wet. Each roll measures 3/4˝W x 250´L.

Yellow	58033	
Blue	58036	
Orange	58037	
Red	58038	
White	58039	
3 oz.		$3.20
	48+	$2.90
	108+	$2.60

3-Inch "CAUTION" Barricade Tapes
6430

Bright yellow plastic barricade tape printed along entire roll. 3˝W x 1,000´L roll. Cardboard dispenser included with each roll. Choose from black print or alternating black/ reflective print.

Black Lettering 4 lbs.	58015	$11.75
	8+	$10.50
Alternating Black Lettering/Reflective Lettering 3 lbs.	58018	$13.60
	8+	$11.95



Multi-Purpose Holder
1229

Durable, 1˝W nylon webbing strap attaches securely to your belt loop or other equipment. The highly visible, fluorescent orange strap can be secured around a can or through a tape roll with the Velcro® closure. Nickel plated swivel snap.

Multi-Purpose Holder 3 oz.	27295	$7.50

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Suunto and Silva Compasses
pages 56 thru 59

Poster Shelter with Lens Kit
4622

Protect posters in the outdoors from heat, cold, moisture, insects, and even warping! Constructed of a premium plywood sourced from certified sustainable plantation forests and independently verified by FSC or PEFC. Each panel is treated on all sides plus has a 30ml poly lens and a roof attached to provide up to 15 years of outdoor durability. Accommodates posters up to 12″ x 18″.

Poster Shelters with Lens Kit 5 lbs.	**24942**	**$39.95**

Painted Aluminum Location & Bearing Tree Posters
1121

Used to identify property corners.

Sturdy aluminum with holes at top and bottom for mounting. 4″ x 6″. Pack of 100.

Location Poster 4 lbs.	**24979**	**$150.00**
Bearing Tree Poster 4 lbs.	**24996**	**$150.00**

Trailite Markers
6431

Durable metal markers with embossed image that resists wear. Pre-drilled mounting holes at top and bottom for easy mounting. 3″ Diameter. Packs of 100.

Marker	Dia.	Red	Orange	Blue	Green	Weight	100 Pk.
Hiker	3″	**24964**	**24968**	**24965**	**24966**	3 lbs.	**$105.75**
Arrow	3″	**24974**	**24978**	**24975**	**24976**	3 lbs.	**$105.75**
Reflective Arrow	3″	**24575**	**24576**	**24577**	**24578**	2 lbs.	**$168.95**

Distance Markers

4-1/2″ Diameter with recessed center to accept Hiker or Arrow markers (sold separately). **3-Mile set includes 8 markers:** Start, 0.5, 1, 1.5, 2, 2.5, 3, End. **10-Mile set includes 17 markers:** Start, 0.5, 1, 1.5, 2, 2.5, 3, 3.5, 4, 4.5, 5, 6, 7, 8, 9, 10, End.

Marker	Diameter	3 Mile	10 Mile			Weight	
Distance	4-1/2″	**24943**				6 oz.	**$51.75**
	4-1/2″		**24941**			13 oz.	**$81.75**

"POSTED Private Property" Signs
1142

Economical signs by-the-yard.

12″ x 12″ signs printed on perforated rolls 8-mil plastic. Black lettering on bright yellow background withstands harsh conditions. 200 signs per roll.

Roll of 200 6 lbs.	**57971**	**$39.95**
	2+	**$36.55**

Posted Signs
1141

Mark your posted land with these rugged, long-lasting signs!

Choose from "POSTED No Trespassing," "POSTED Private Property," or "POSTED and Patrolled." Each sign measures 11-1/4″ x 11-1/4″. **Aluminum Signs:** Bright orange background. 0.012″ Thick. **High-Density Polyethylene Signs:** Bright yellow background. 0.024″ Thick.

	"Posted No Trespassing"	"Posted Private Property"	"Posted and Patrolled"	Weight	Each	50+	100+
Aluminum	**24887**	**24888**	**24889**	3 oz.	**$1.95**	**$1.60**	**$1.40**
Polyethylene	**25020**	**25021**	**25022**	2 oz.	**$1.55**	**$1.30**	**$1.10**

Plastic Signs
1151

Identify boundaries with these durable plastic signs!

High density, flexible plastic for easy posting – even around curved surfaces. Attach easily with tacks, nails or wire. Bright white background with messages printed in fade-resistant attention-grabbing colors. 8″ W x 13-1/2″ H x 0.03″ Thick.

No Hunting	4 oz.	**24936**	**$11.15**
Wildlife Study Area	4 oz.	**24958**	**$11.15**

Pesticide Warning Signs
1147

Meet or exceed EPA requirements for pesticide warning signs.

Each sign measures 21″ x 14″, features black and red print and is made of high-density polyethylene. Signs have space at the bottom for writing in the name of the chemical used, the application date, and the re-entry date. Sold individually.

Pesticide Warning Sign	4 oz.	**25030**	**$3.85**
		25+	**$3.60**
		50+	**$3.20**

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Utility Slip-On Tags
7418

Convenient, easy-to-use labels are made of soft and pliable, heavy-gauge vinyl. The unique design makes for easy attachment. Roll of 1,000 labels.

Color	Weight	SN	Each	5+	10+
Blue	3 lbs.	**79179**	**$39.50**	**$36.95**	**$34.50**
Pink	3 lbs.	**79180**	**$39.50**	**$36.95**	**$34.50**
White	3 lbs.	**79181**	**$39.50**	**$36.95**	**$34.50**
Yellow	3 lbs.	**79186**	**$39.50**	**$36.95**	**$34.50**

Metal Sign Stands
7148

Perfect for plant identification. Galvanized material with rounded edges. Tab design allows maximum view of sign card (sold separately). Use alone as stakes or add the optional base adapter (sold separately).

7″ x 5″ Sign Holder with 18″ Leg	10 oz.	**24810**	**$2.25**
		25+	**$2.00**
11″ x 7″ Sign Holder with 18″ Leg	1 lb.	**24811**	**$2.40**
		25+	**$2.15**
11″ x 7″ Sign Holder with 30″ Leg	1 lb.	**24812**	**$3.20**
		25+	**$2.90**
Base Adapter	2 lbs.	**24882**	**$4.25**

Blank Sign Cards
7148

Made of 0.024″ gauge light polyethylene plastic.

7″ x 5″ Blank Card for Sign Holders	1 oz.	**24711**	**$0.95**
		25+	**$0.85**
		50+	**$0.75**
		100+	**$0.70**
11″ x 7″ Blank Card for Sign Holders	1 oz.	**24710**	**$1.50**
		25+	**$1.35**

STANLEY BOSTITCH

Bostitch® PC4000 Tacker
1145

Small-nose tacker lets you work in tight, hard-to-reach places.

Single-handed operation frees your other hand for holding or positioning. Drives 1/4″, 3/8″, 1/2″, 9/16″ staples. Holds 84 staples.

Bostitch PC4000 Tacker	2 lbs.	**91038**	**$37.50**

Staples for Bostitch Staplers
1146

Box of 5,000.

3/8″ Staples, Box of 5,000	1 lb.	**91042**	**$27.25**
1/2″ for use in PC4000	1 lb.	**91043**	**$22.50**
3/8″ for use in H2B	1 lb.	**91035**	**$23.75**

STANLEY BOSTITCH

Bostitch® PC2K PowerSlam™ Hammer Tacker
3900

The AntiJam™ design of this heavy-duty, ergonomic tool allows for maximum productivity! It features a long reach knuckle saver handle with non-slip comfort grip, a die-cast frame and hardened components for extreme durability, a high-capacity bottom load magazine with staple count indicator, and an extra-wide foot plate to prevent tearing and marring. Drives 3/8″ staples.

Hammer Tacker	2 lbs.	**91237**	**$99.95**
		3+	**$93.95**
3/8″ Staples, Box of 5,000	1 lb.	**91042**	**$27.25**

DYMO

Dymo® 1011 Professional Tapewriter Kit
1148

Embosser for Aluminum or Stainless Steel metal tapes.

Embosses a 0.188″ high letter on 1/2″ Dymo metal tape. Includes one, 1/2″ x 16′ roll of aluminum tape without adhesive. Tape thickness is 0.0156″.

Professional Tapewriter Kit	4 lbs.	**83024**	**$252.95**
		2+	**$240.75**

Dymo® Metal Tape (for Dymo Tapewriters only)

Aluminum Tape without adhesive, 1/2″ x 16′	1 oz.	**83051**	**$4.75**
Stainless Steel Tape without adhesive, 1/2″ x 21′	3 oz.	**83053**	**$7.65**

Ideal-Mark Leakproof Indelible Marker
1245

Ideal for freehand marking, printing, writing on any surface – smooth or rough. The felt tip is fed through the pressure sensitive, positive action valve.

	Weight		Black	Red	Each	24+	48+
5-1/2″L closed	1 oz.	!	**61425**	**61426**	**$3.45**	**$3.10**	**$2.70**
12 Repl. Tips	1 oz.		**61424**	**61424**	**$9.50**	—	—

More Markers page 94

! Extra Charge if Shipped by International Air. See Shipping Information for details.

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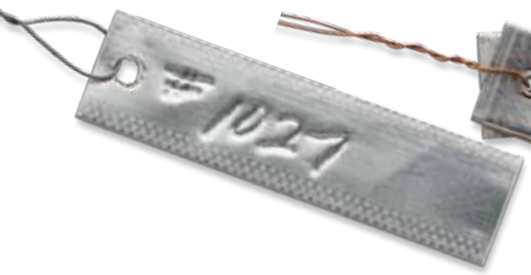

Forestry Suppliers "Al Tag" Double Faced Aluminum Tag
1178

Write with pencil, pen or pointed instrument on front or back without show-through. Debossed mark remains visible, regardless of weather, grease, pitch or dirt. Aluminum sheet wrapped around tagboard. 3/4″ x 3″. Hole diameter 1/6″. Comes with 9″ wire (not inserted).

Box of 1,000 tags	3 lbs.	**79500**	**$94.50**
		5+	**$87.25**

Aluminum Tags with Cardboard Backing
1181

Sturdy cardboard backing allows you to permanently emboss aluminum front. Write on cardboard with pen or pencil. 9″ Copper wire inserted. Box of 500.

3/4″ x 3-1/2″	3 lbs.	**79201**	**$59.95**
1-1/2″ x 3-1/2″	4 lbs.	**79234**	**$79.95**

PermaTags
1179

Aluminum tags, 1″ x 3-1/2″. Write or emboss on one side. To attach, bend attached strip around, insert in hole and crimp. Box of 500.

PermaTags	1 lb.	**79118**	**$34.25**
		5+	**$29.75**

Scot Tags
1180

Tagboard laminated between two layers of aluminum. 5/32″ Diameter hole. Emboss permanently on both sides. Box of 100.

Tag Size	Weight	Tag	Each	10+	
1-3/8″ x 3-1/8″	7 oz.	**79271**	**$44.50**	**$41.25**	—
3/4″ x 3″	4 oz.	**79272**	**$31.95**	**$29.25**	—
Tag Size	**Weight**	**Tag**	**Each**	**5+**	**10+**
2″ x 4″	12 oz.	**79274**	**$55.25**	**$50.50**	**$45.50**

Double-Faced Aluminum Tags
1182

Aluminum wrapped cardboard, write or emboss on either side. 6″ wire. Wire not inserted. Box of 50.

Tag Size	Weight	SN	Box	10+	20+
3″ x 7/8″	4 oz.	**79260**	**$5.50**	**$5.10**	**$4.50**
Tag Size	**Weight**	**SN**	**Box**	**5+**	**10+**
3″ x 3″	12 oz.	**79261**	**$33.95**	**$30.75**	**$28.25**
3″ x 4″	14 oz.	**79262**	**$35.95**	**$32.75**	**$29.75**
3″ x 5″	1 lb.	**79263**	**$37.95**	**$34.50**	**$31.50**

JIM-GEM® Aluminum Tags
1183

Aluminum tags, 1″ x 3-1/2″. Write on or emboss with pencil or pointed instrument. Attach with nail, tack or staple. Box of 500.

JIM-GEM Aluminum Tags	1 lb.	**79170**	**$34.25**
		5+	**$29.75**

Wood Pot and Garden Stakes
1826

Ideal for labeling plants in nurseries, horticulture labs, and research plots!

Made from top-quality birch. Can be written on with ballpoint pen, pencil, markers, and crayons.

1-1/8″ x 12″, Box of 250	7 lbs.	**79495**	**$37.90**
		3+	**$34.80**

"Perfect" Plastic Pot Labels
1824

Plastic labels will not curl, crack, or fade. Easily marked – can be washed and re-marked. Box of 500.

3/4″ x 4″	1 lb.	**79496**	**$27.95**
		5+	**$25.50**
1″ x 6″	3 lbs.	**79497**	**$35.50**
		5+	**$31.75**
1-1/4″ x 8″	5 lbs.	**79498**	**$46.50**

Weatherproof Sealable Tags
1189

Customize your own weatherproof tags!

Write on the tag, remove the backing, and press both sides together to seal. Four styles are available, each style comes in a pack of 100 tags. Hi-vis yellow.

2″ x 2-1/2″ with 2 holes	15 oz.	**79604**	**$46.50**
		5+	**$43.95**
1-1/2″ x 3″ with 1 hole	8 oz.	**79605**	**$41.95**
		5+	**$38.75**
3-1/4″ x 5-1/2″ with eyelet & wire attachment	2 lbs.	**79606**	**$89.95**
		5+	**$82.00**
2-1/2″ x 5″ with 1 hole	1 lb.	**79608**	**$59.95**
		5+	**$56.50**

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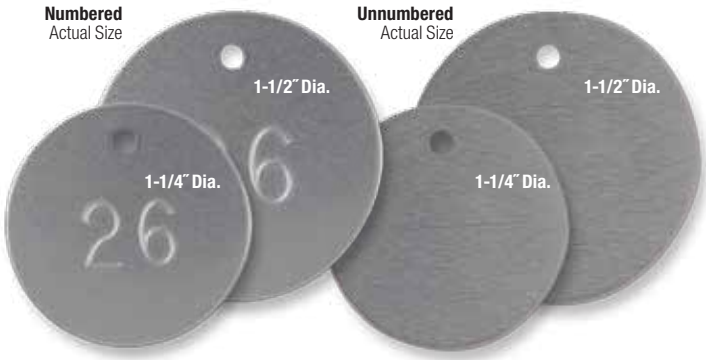
18″ Tag Stake
8007

Great for tagging seedling plots! Made of 0.115 brite wire, these stakes measure 18″ long and feature a wire loop at the top for securing an identification tag.

18″ Tag Stake, Box of 500 36 lbs.	79202	$87.25
	3+	$78.75

Note: Tags are sold separately.

Haglöf Log Tag Hammer page 95



Round Aluminum Tags
1186

1-1/4″ and 1-1/2″ diameter tags made of 0.050″ aluminum with 0.125″ hole diameter.

For quotes on runs over 1,000 – call toll-free 1-800-647-5368 or see our web site - www.forestry-suppliers.com.

Note: The only aluminum nails which can be used with the round aluminum tags are 79120 and 79121.

Round Numbered Tags

Dia.	Weight	1-100	101-200	201-300	301-400	401-500	501-600	601-700	701-800	801-900	901-1000	1-1000	1-2	3+
1-1/4″	10 oz.	79366	79367	79368	79369	79370	79372	79373	79374	79375	79376		$13.40	$12.20
	6 lbs.											79377	$112.50	
1-1/2″	9 lbs.											79389	$149.95	

Round Unnumbered Tags

Dia.	Weight	Box of									SN	1-4	5+	10+
1-1/2″	13 oz.	100									79363	$17.95	$16.40	$15.00
1-1/4″	10 oz.	100									79360	$13.40	$12.20	$11.00

Racetrack-Shaped Aluminum Tags
1187

2-3/4″ long x 1″ wide tags are made of 0.025″ thick aluminum. 0.187″ diameter hole. Box of 100 tags.

Racetrack Numbered Tags

LxW	Weight	1-100	101-200	201-300	301-400	401-500	501-600	601-700	701-800	801-900	901-1000	1-1,000	$
2-3/4″ x 1″	11 oz.	79142	79196	79197	79198	79199	79265	79266	79267	79268	79269		$11.20
	6 lbs.											79184	$93.50

Racetrack Unnumbered Tags

LxW	Weight	Box of									SN	1-9	10+
2-3/4″x 1″	10 oz.	100									79182	$11.20	$10.15

DREMEL

Dremel® Engraver
1177

Writes like a pencil on aluminum tags, metals, plastic, glass and many other materials.

Stroke adjustment regulates depth of engraving. 115V, 0.2 Amps, 60 Hz, AC only. Includes power cord and one carbide point.

Dremel Engraver 13 oz.	37229	$27.75
Replacement Carbide Point 1 oz.	37231	$6.75
Optional Diamond Point for hard steel 1 oz.	37232	$19.50

Wood Siding Sinker Head Style Aluminum Nails
1185

Won't Harm Trees or Saws!

2-1/8″ Long: 0.109″ diameter shank, 17/64″ diameter head. 1 lb. box, contains approximately 575 nails; 50 lb. Bulk Box, contains approximately 446 nails per pound. **2-7/8″ Long:** 0.145″ diameter shank, 5/16″ diameter head. 1 lb. box, contains approximately 290 nails; 50 lb. Bulk Box, contains approximately 204 nails per pound.

2-1/8″ Sinker Head Aluminum Nails, 1 lb. box 1 lb.	79120	$9.25
	10+	$8.25
2-1/8″ Sinker Head Aluminum Nails, 50 lb. bulk 52 lbs.	79121	$264.00
2-7/8″ Sinker Head Aluminum Nails, 1 lb. box 1 lb.	79280	$10.25
	10+	$9.50
2-7/8″ Sinker Head Aluminum Nails, 50 lb. bulk 52 lbs.	79281	$264.00

Aluminum Siding Plain Shank Style Nails
1185

Used by U.S. Forest Service in permanent sample plots.

2-1/4″ Long: 0.128″ diameter shank, 3/8″ diameter head. Approximately 333 nails per pound. **3″ Long:** 0.128″ diameter shank, 3/8″ diameter head. Approximately 254 nails per pound.

2-1/4″ Plain Shank Aluminum Nails, 1 lb. box 1 lb.	79285	$6.75
	10+	$5.95
2-1/4″ Plain Shank Aluminum Nails, 50 lb. bulk 52 lbs.	79284	$229.00
3″ Plain Shank Aluminum Nails, 1 lb. box 1 lb.	79286	$7.25
	10+	$6.50
3″ Plain Shank Aluminum Nails, 50 lb. bulk 52 lbs.	79287	$229.00

Hand Stamp Steel Dies
5789

1/4″ Short face Gothic type. All sets supplied in wooden box.

Number Set, 1 through 0 1 lb.	57490	$24.95
Combination Letter and Number Set 4 lbs.	57522	$90.25

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Trecoder® Backpack Tree Marking Gun

1201

Backpack unit lets you take a full gallon of marking ink with you.

Weighs only 9-1/2 lbs. fully loaded with a gallon of ink (6 ounces empty). Plastic gallon container (sold separately) fits directly into the nylon backpack. Complete with 2″ wide backstrap, 4′ feeder tube to connect to the Trecoder Spot Gun, and Spot Gun belt/holster combination. Ink and paint sold separately.

Trecoder Backpack Tree Marking Gun	2 lbs.	**55625**	**$209.50**
1-Gallon Container	6 oz.	**21038**	**$7.10**
11″ Suction Tube for Gallon Container	2 oz.	**55632**	**$26.50**
3-3/4″ Brass Suction Tube	1 oz.	**55633**	**$8.50**
Inline Check Valve with Ball Valve	1 oz.	**55634**	**$10.75**
Cap for Gallon Container Suction Tube	1 oz.	**55636**	**$16.95**
Conversion Suction Tube for Quart Container	1 oz.	**55635**	**$23.10**
Clamps for Plastic Hose	1 oz.	**55637**	**$3.20**
4′ Long Feeder Tube	3 oz.	**55638**	**$8.50**
New! Gun Adapter for Trecoder Backpack Tree Marking Gun – Allows guns produced prior to 2012 to operate with new 1-gallon containers (SN 21038).	1 oz.	**55620**	**$6.50**

ACMI Trecoder® Lead-Free Tree Marking Ink
page 34

Trecoder® Spot Gun with Reversible Nozzle

1200

No more double or triple squeezes!

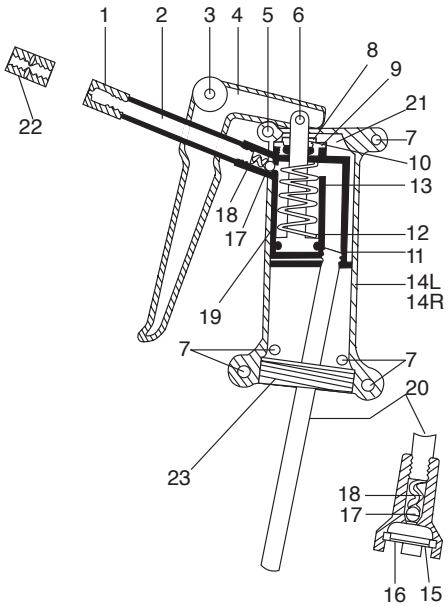
Works with ink or paint. One squeeze of the comfortable, four-finger trigger dispenses up to 1-1/2 times more product than other guns on the market. Shoots ink or paint 8′ to 10′. Reversible, self-cleaning nozzle. Attaches to quart-sized cans of tree marking ink or paint (sold separately).

Trecoder Spot Gun	1 lb.	**55585**	**$122.50**

Trecoder® Spot Gun Parts Kit

Kit includes a 7/8″ handle bolt with nut, an 11/16″ piston rod bolt with nut, a 7/16″ handle bolt with nut, 5/16″ O-ring (piston seal), a 3/4″ O-ring (piston ring), a screen, a ball valve, a ball valve spring, a piston spring, and a cylinder cap gasket.

Trecoder Parts Kit	1 oz.	**55584**	**$21.95**



Trecoder® Replacement Parts

1199

For Tree Marking Guns 55625 and 55585

	Description	Wt.	SN	$
1	Jet Discharge Nozzle Banding	1 oz.	**55587**	**$3.75**
2	Discharge Tube	1 oz.	**55588**	**$8.50**
3	7/8″ Trigger Pivot Bolt	1 oz.	**55589**	**$1.25**
4	Trigger	1 oz.	**55592**	**$9.25**
5	7/8″ Handle Bolt	1 oz.	**55593**	**$1.25**
6	3/4″ Piston Rod Bolt	1 oz.	**55594**	**$1.25**
7	5/8″ Handle Bolt	1 oz.	**55595**	**$1.15**
8	Piston Rod Cap*	1 oz.	**55596**	**$6.65**
9	Cylinder Cap*	1 oz.	**55597**	**$9.10**
10	5/16″ O-Ring*	1 oz.	**55598**	**$3.35**
11	3/4″ O-Ring	1 oz.	**55599**	**$3.35**
12	Piston	1 oz.	**55611**	**$15.70**

	Description	Wt.	SN	$
13	Cylinder	2 oz.	**55612**	**$25.95**
14L	Handle – Left	2 oz.	**55613**	**$11.00**
14R	Handle – Right	2 oz.	**55614**	**$11.00**
15	Foot Valve	1 oz.	**55615**	**$10.75**
16	Screen	1 oz.	**55616**	**$1.55**
17	Ball Valve	1 oz.	**55617**	**$1.15**
18	Ball Valve Spring	1 oz.	**55618**	**$3.35**
19	Piston Spring	1 oz.	**55619**	**$5.25**
20	Suction Tube	1 oz.	**55621**	**$9.30**
21	Cylinder Cap Gasket	1 oz.	**55622**	**$2.70**
22	Reversible Nozzle	1 oz.	**55586**	**$5.80**
23	Container Gasket	1 oz.	**55623**	**$3.45**

*To replace this part on Spot Guns purchased prior to October 1985, order all three parts with an asterisk (*). Once installed, they may be replaced individually in the future.

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Panama Cylindrical Backpack Tree Marking Gun

1204

Durable plastic carrier with 2″ wide shoulder and belt straps.

Sturdy, circular steel tank with domed ends is pressure tested to 400 psi, safely operates at 125 psi. Built-in, hand-operated air pump operates at 30-60 psi. Air valve allows pressure-up from compressor or other source. Special clog-resistant, self-cleaning 3/64″ nozzle. Holds 1-1/2 gallons. Complete outfit includes gun, tank, pump, carrier and air valve.

Mild Steel Backpack Tree Marking Gun	12 lbs.	**55309**	**$480.00**
Stainless Steel Backpack Tree Marking Gun	12 lbs.	**55312**	**$526.00**
Repair Kit, Contains leather cup, gasket, O-ring, and 3 sleeves	1 oz.	**55501**	**$29.50**

Panama Elliptical Backpack Tree Marking Gun

1205

The original, easy-to-carry backpack design.

Features a built-in, hand-operated air pump. Sturdy steel tank is tested to 100 psi. Recommended operating pressure 30 to 60 psi. Special drip-proof, clog-resistant, self-cleaning nozzle. Holds one gallon of paint. Equipped with 3/64″ diameter nozzle for marking trees; 1/32″ Nozzle also available for lettering.

Tree Marking Gun with stainless steel tank	10 lbs.	**55310**	**$450.00**
Tree Marking Gun with mild steel tank	10 lbs.	**55300**	**$401.95**
Repair Kit, Contains leather cup, gasket, O-ring, and 3 sleeves	1 oz.	**55501**	**$29.50**

JUSTRITE®

Justrite 40-Gallon Class III Liquids Cabinet

1519

Store paints and ink in this two-door cabinet with three adjustable shelves that will store up to 40 gallons. Meets OSHA, Factory Mutual, Underwriters Laboratories, and National Fire Protection Association specifications. **Dimensions:** 44″ x 43″ x 18″.

40-Gallon Class III Liquids Cabinet 2-door, 3-shelf. 40-gallon capacity. Red (F)	239 lbs.	**85510**	**$739.00**

Note: The state of California requires safety storage cabinets to have self-closing doors. Models with self-closing doors are available as special order items. Call Customer Service at 800-752-8460 for details.

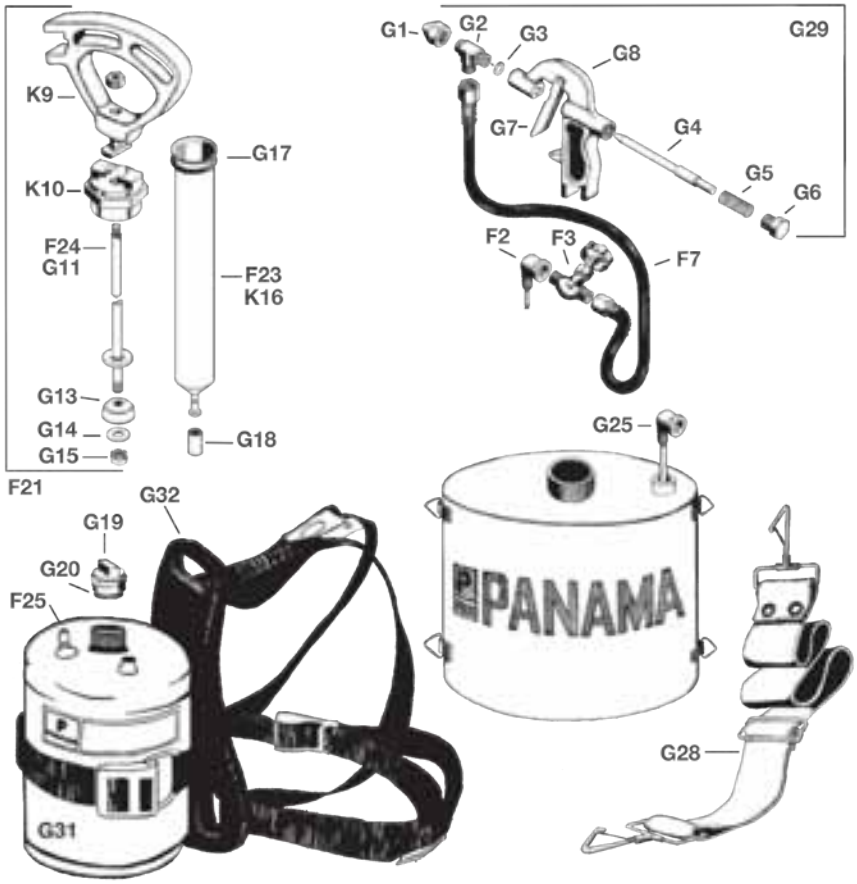
Replacement Parts for Panama Tree Marking Guns 55309, 55312, 55310 and 55300

1202, 1203

	Description	Wt.	SN	$
F-2	Elbow and Tail Pipe	4 oz.	**85311**	**$27.75**
G-25	Elbow and Tail Pipe	4 oz.	**55360**	**$26.95**
F-3	Cut-Off Valve	4 oz.	**55370**	**$38.95**
F-7	Hose, Coupled	9 oz.	**55330**	**$48.50**
F-21	Hand Pump Assembly with Stem	2 lbs.	**55308**	**$178.50**
F-23	Air Pump Barrel (Cylindrical)	10 oz.	**85291**	**$63.25**
K-16	Air Pump Barrel (Elliptical)	9 oz.	**55520**	**$61.75**
F-24	11-1/2″ Stem (Requires 55460)	5 oz.	**85292**	**$31.25**
G-11	Stem, 9-1/4″ (Requires 55460)	4 oz.	**55480**	**$29.75**
F-25	Air Valve	1 oz.	**85293**	**$6.70**
G-1	3/64″ Nozzle	1 oz.	**55380**	**$19.25**
G-1	1/32″ Nozzle	1 oz.	**55381**	**$19.25**
G-2	Brass Tee w/O-Ring	3 oz.	**55390**	**$54.75**
G-3	Small O-Ring	1 oz.	**55400**	**$3.75**
G-4	Plunger	2 oz.	**55410**	**$46.25**
G-5	Spring	1 oz.	**55420**	**$10.95**
G-6	Spring Nut	1 oz.	**55430**	**$21.25**
G-7	Trigger	1 oz.	**55440**	**$13.75**
G-8	Hand Piece Body	7 oz.	**55450**	**$70.25**
G-13	Leather Cup	1 oz.	**55490**	**$14.75**
G-14	Spreader Washer	1 oz.	**55500**	**$3.95**
G-15	Nut	1 oz.	**55510**	**$4.55**
G-17	Large O-Ring	1 oz.	**55530**	**$4.90**
G-18	Check Valve	1 oz.	**55540**	**$4.10**
G-19	Filler Cap with Air Valve	7 oz.	**85324**	**$45.25**
G-20	Filler Cap Gasket	1 oz.	**85325**	**$5.60**
G-29	Hand Piece Assembly	13 oz.	**55550**	**$203.75**
G-30	Repair Kit, Contains leather cup, gasket, O-ring, and 3 sleeves	1 oz.	**55501**	**$29.50**
G-32	Back Pack Carrier	2 lbs.	**55306**	**$78.75**
G-28	Carrying Strap 2 req.	4 oz.	**55340**	**$18.25**
K-9	Aluminum Handle	6 oz.	**55460**	**$47.25**
K-10	Pump Nut with Lugs	6 oz.	**55470**	**$55.95**

*For 55310 and 55300 only

(F) Ships Motor Freight. See Shipping Information for details.



Handle Notice: Both handles, parts K-9 and G-8, are designed to be used as wrenches should other tools not be available.
Note: When replacing the stem (Stock Number 55480 or 85292), you must also replace the handle (Stock Number 55460).

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We repair Nel-Spot and Idico Tree Marking Guns. Call 800-752-8460 for information.

Idico® Duz-All™ Gun
1197

Comes with two nozzles: self-unclogging pin-stream and mist spray. Polyethylene tank is chemical resistant. Holds one quart. 10˝H.

Idico Duz-All Gun		
1 lb.	**55579**	**$53.95**

Empty Standard Quart-Size Paint Cans
1193

Buy your marking paint by the gallon and transfer it to quart-size cans for use with your tree marking gun. Empty can is 8˝tall and will fit all paint guns that accept standard quart cans. Available in metal or plastic.

Empty 1-Quart Metal Paint Can		
5 oz.	**57653**	**$5.25**
	12+	**$4.50**
Empty 1-Quart Plastic Paint Can		
3 oz.	**57650**	**$6.25**
	12+	**$5.50**

Paint Brush
6442

Nylon bristle with wood handle. 4˝W.

Paint Brush		
4 oz.	**57116**	**$3.75**

Nel-Spot Dura-Built Tree Marking Gun
1191

Long trigger for a convenient three-fingered pull.

Attaches directly to a quart can without the need for an adapter. Made of lightweight but extremely strong material that keeps your hand warmer in the winter than metal models. Comes with reversible, self-cleaning 0.021˝nickel-finished nozzle.

Nel-Spot Dura-Built Tree Marking Gun		
14 oz.	**55909**	**$154.95**
	2+	**$145.95**

Nel-Spot Tree Marking Gun
1190

The easy-trigger gun with quality features!

Smaller cylinder and piston eases trigger pull 25%, uses less paint. Shorter barrel for easier handling in thick brush. Leak seal keeps paint out of handle when gun is laid on its side. Two-piece piston rod allows repair of other parts without removal. Reversible 0.021˝diameter nozzle clears clogs instantly. Nozzle cap keeps dirt out, stops paint drip and prevents dry-in when gun is idle. Holds quart-size cans.

Nel-Spot Tree Marking Gun ,2-Finger Trigger		
1 lb.	**55833**	**$275.95**
	2+	**$259.95**
New! Nelson Tree Marking Gun, 3-Finger Trigger		
1 lb.	**55831**	**$275.95**

Idico® Duz-All™ Tree Marking Gun
1196

Fits quart cans of ready-mixed tree paint.

Fits standard quart cans of tree and log marking paint. The gun features a powder-coated, all-metal housing. Self-storing, no-drip brass nozzle cap. Fine mesh screen strainer on intake tube.

Idico Duz-All Tree Marking Gun		
11 oz.	**55807**	**$51.95**
Optional Fog Nozzle Unit		
1 oz.	**55869**	**$8.50**

Tree Marking Paint Carriers
6324

Triple Carrier

Holds three quart-sized cans of tree marking paint. Cordura® nylon with 3˝ belt loop.

Triple Carrier		
3 oz.	**55560**	**$12.50**

Single Carrier

Holds one quart-sized can or two aerosol cans. Sturdy Cordura® nylon. Belt loop. 5-1/2˝x 10˝x 3-1/2˝.

Belt Pouch, Cordura – 5-1/2˝x 10˝x 3-1/2˝		
3 oz.	**94055**	**$11.25**

WYPALL Waterless Cleaning Wipes
4689

On-the-go, heavy-duty hand cleaning wipes are pre-moistened with a heavy-duty waterless cleanser. Natural solvents cut through grease, grime and oil.

50-Count		
1 lb.	**33318**	**$11.75**
	8+	**$10.75**
75-Count		
2 lbs.	**33322**	**$18.25**
	6+	**$16.50**

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Nelson Super Spot Tree Marking Paint

1207

Solvent-Based

Resists settling, even after long storage. Requires minimal stirring or straining and helps eliminate plugged guns and wasted paint. High visibility, does not absorb into bark. Visibility of smaller marks, even at a distance, is greater than large marks with ordinary tree marking paints. Long lasting, no re-marking problems. Quality-controlled and carefully checked to assure consistent high quality. Solvent-based paint. **Operating temperature:** -40°F to +120°F.

Nelson Boundary Mark Boundary Paint

1207

Solvent-Based

Designed to make bright, long-lasting marks on boundaries, witness trees, research plots, nest trees. Quart cans of paint are thinner viscosity with a typical life of three to five years. Gallon cans of paint are thicker, for brush application. Typical life is five years and up. Gallon cans have friction tops and are designed for use with a paint brush. Solvent-based paint. **Operating temperature:** -40°F to +120°F.

Nelson Econo Spot Tree Marking Paint

4459

Solvent-Based

Provides a bright economical short-term mark which has high hiding power and stands out brightly in dense forest thanks to its non-absorbing formulation. Made specifically for the forest industry, these paints can be applied in all weather, from -20°F to +110°F. **Longevity:** up to 2-3 years.

Nelson	White	Purple*	Blue	Red	Yellow	Orange		Weight	Quart Cans Each	Quart Cans 12+	Quart Cans 120+	Gallon Cans Each	Gallon Cans 4+	Gallon Cans 32+
Super Spot			57665				A	2 lbs.	$9.75	$9.30	$7.85			
	57666			57668			A	2 lbs.	$9.85	$9.35	$8.35			
					57655	57654	A	2 lbs.	$9.85	$9.35	$8.35			
			57669				A	9 lbs.				$24.50	$23.25	$21.50
				57672	57657	57656	A	9 lbs.				$26.40	$24.70	$21.20
Boundary Mark			57674				A	2 lbs.	$14.10	$13.25	$11.55			
				57678	57659	57658	A	2 lbs.	$14.40	$13.65	$11.95			
			57680				A	8 lbs.				$32.85	$30.35	$27.25
	57679	57675		57684	57639	57638	A	9 lbs.				$36.25	$34.75	$31.25
Econo Spot			57621		57622	57623	A	9 lbs.				$22.75	$21.75	$19.50

*Purple is for use in AR, MO and TX.

A Extra Charge if Shipped by Air. See Shipping Information for details.

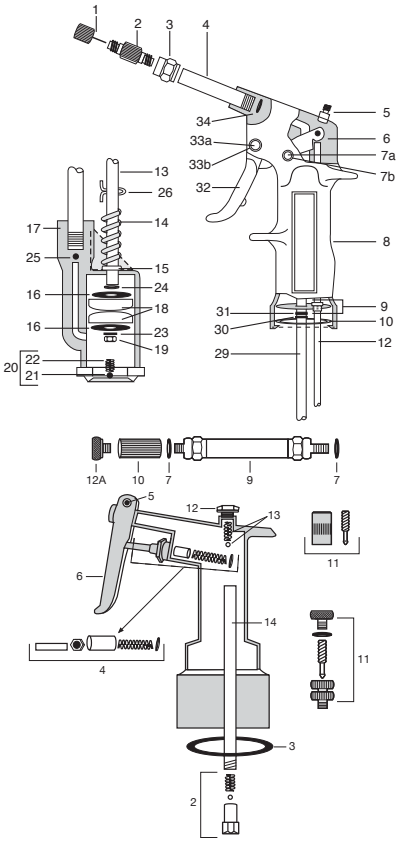
Note: Quantity discounts apply to same-color orders. Call for quote on larger quantities.

Replacement Parts For Nel-Spot Tree Marking Guns

1192

	Part #	Description	Wt.	SN	$
1	HW-410	Nozzle Cap	1 oz.	55834	$6.00
2	HW-59	1 piece Reversible Nozzle, 0.021 nickel	1 oz.	55835	$5.00
2	HW-60	1 piece Reversible Nozzle, 0.029 brass	1 oz.	55878	$5.00
3	HW-61	Retaining Sleeve	1 oz.	55836	$8.20
4	HW-51	Extension Tube, 3˝	1 oz.	55837	$8.20
5	HW-42	Nozzle Cap Holder	1 oz.	55838	$21.95
6	HW-417	Trigger Link	1 oz.	55839	$11.40
7a	HW-15	Trigger Link Pin	1 oz.	55879	$4.10
7b	HW-15-1	Retainer Ring (2 req.)	1 oz.	55880	$1.95
9	HW-413LT	Spacer Disc Assembly	1 oz.	55903	$5.95
10	N-202	Container Gasket	1 oz.	55860	$1.95
12	HW-414LT	Upper Piston Rod	1 oz.	55906	$11.50
13	HW-50	Lower Piston Rod	1 oz.	55846	$8.95
14	A-26-A	Spring	1 oz.	55847	$1.95
15	HW-13	Piston Rod Washer	1 oz.	55848	$1.95
16	HW-46	Washer	1 oz.	55849	$1.95
17	HW-49	Plastic Cylinder	1 oz.	55850	$30.95

	Part #	Description	Wt.	SN	$
18	HW-47	Cup Leather	1 oz.	55851	$3.25
19	SS-700	Hex Nut	1 oz.	55852	$1.95
20	HW-411A	Intake Valve Assy.	1 oz.	55853	$16.50
21	SS-1552	Intake Valve Steel Ball	1 oz.	55854	$1.95
22	HW-26	Intake Valve Spring	1 oz.	55855	$1.95
23	SS-3672	Lock Washer	1 oz.	55730	$1.95
24	HW-45	Washer	1 oz.	55857	$1.95
25	SS-1550	Steel Ball	1 oz.	55790	$1.95
26	SS-595	Cotter Pin	1 oz.	55859	$1.95
29	HW-39LT	Fluid Tube	3 oz.	55907	$14.80
30	SS-9837	Retainer	1 oz.	55863	$1.95
31	SS-2666	O-Ring	1 oz.	55864	$1.95
32	HW-3	Metal Trigger	2 oz.	55865	$62.95
32	HW-3PLT	Plastic Trigger	1 oz.	55908	$36.50
33a	HW-16	Trigger Pin	1 oz.	55881	$4.50
33b	HW-16-1	Snap Ring (2 req.)	1 oz.	55882	$1.95
34	SS-7312	Gasket	1 oz.	55867	$8.10



Replacement Parts for Idico Tree Marking Guns

1194

	Description	Wt.	SN	$
2	Intake Housing & Screen Assy.	1 oz.	55810	$7.50
3	Container Gasket for 55579	1 oz.	55815	$1.80
3B	Container Gasket for 55807	1 oz.	55860	$1.95
4	Valve Assembly Unit (Complete)	2 oz.	55816	$12.25
5	Trigger Pin	1 oz.	55822	$1.20
6	Trigger	1 oz.	55823	$4.50
7	Washers–1 doz. All Connections	1 oz.	55824	$3.95
9	Straight Extension	1 oz.	55826	$6.50
10	Pin Stream Nozzle	1 oz.	55827	$2.75

	Description	Wt.	SN	$
11	Optional Fog Nozzle Unit	1 oz.	55869	$8.50
12	Nozzle Cap Holder w/Washer	1 oz.	55828	$2.20
12A	Nozzle Cap	1 oz.	55874	$2.00
13	Top Ball Check (Ball Bearing, Spring & Gasket)	1 oz.	55829	$3.95
14	Intake Tube (for 55579)	1 oz.	55830	$3.95
14	Intake Tube (for 55807)	1 oz.	55886	$3.95

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ACMI Trecoder® Lead-Free Tree Marking Ink
1215

Quart size containers fit Trecoder, Nel-Spot, and Idico tree marking guns.

High grade marking ink with bright, vivid colors and low viscosity. Won't clog guns. Marks last two years or more, high resistance to weathering. Easy clean-up using mineral spirits. **Operating temperature:** -20°F to +120°F.

Blue, Quart Can 2 lbs.	A	57632	$9.50
		12+	$9.10
Blue, Gallon Can 8 lbs.	A	57636	$32.75
		4+	$30.75

Note: Call for quote on larger quantities.

Forestry Suppliers Chalk Tree Marker
1231

For temporary tree marking.

Leather pouch with screened circular opening and removable wooden handle. Fill with chalk, replace the handle and swat the tree.

Forestry Suppliers Chalk Tree Marker 6 oz.	57050	$22.50

Ultra Fine Marking Chalk

White Marking Chalk 12 oz.	57062	$1.40
	12+	$1.15
Red Marking Chalk 10 oz.	57061	$1.40
	12+	$1.15
Blue Marking Chalk 10 oz.	57063	$1.40
	12+	$1.15

New! Forestry Suppliers™ Aerosol Boundary Paint
4647

Long-lasting boundary paint in an aerosol can for easy application. Paint is highly visible and lasts up to 8 years. **Operating Temperature:** 50°F to 90°F.

Forestry Suppliers	Blue	Orange	Yellow	Red		Weight	Each	24+	48+
Aerosol Boundary Paint	57708	57705	57707	57706	A	1 lb.	$5.95	$5.25	$4.75

Forestry Suppliers Aerosol Tree Marking Paint
4621

12.0 fl. oz.

Ideal for use in marking trees, identifying lumber, and grading logs. Highly visible paint produces a concentrated, narrow spray for easy marking at longer distances. Long-lasting paint is safe for trees and adheres well to damp wood. 12 fl. oz. aerosol can. **Operating Temperature:** 50°F to 90°F.

Forestry Suppliers	Blue	Green	Yellow	White	Red	Orange	Fluorescent Pink	Fluorescent Red/Orange	Fluorescent Blue		Weight	Each	24+	48+
Aerosol Tree Marking Paint	57607	57608	57609	57610	57611	57612				A	1 lb.	$4.75	$4.10	$3.65
							57615	57616	57617	A	1 lb.	$4.75	$4.10	$3.65

Bark-Mark™ Boundary Marking Paint
2982

Solvent-Based

This long-lasting boundary marking paint maintains excellent visibility for years! The lead-free, solvent-based paint can be applied using a brush or spray equipment. For spray application, thin by adding one pint of mineral spirits per gallon of paint. Easy cleanup using mineral spirits. One-gallon can.

Bark-Mark Water Clean-Up Tree Marking Paint
3646

Lasts up to 3 years.

Provides highly visible colors with excellent durability on all types of trees and sprays easily down to -20°F with no clogging or settling. Water-based paint makes clean up fast and easy.

Bark-Mark	Blue	Yellow	Blaze Orange	Purple	Red	Timber Teal	White		Weight	Quart Cans Each	Quart Cans 12+	Quart Cans 120+	Gallon Cans Each	Gallon Cans 4+	Gallon Cans 32+
Boundary Marking Paint	57081					57084	57085	A	10 lbs.				$29.75	$28.25	
		57086	57080	57082	57083			A	10 lbs.				$32.50	$30.95	
Water Clean-Up Tree Marking Paint	57171							A	2 lbs.	$10.95	$10.35	$8.95			
		57173	57172					A	2 lbs.	$10.95	$10.35	$8.95			
	57177							A	9 lbs.				$21.25	$19.95	$18.95
		57179	57178					A	9 lbs.				$21.25	$19.95	$18.95

Ol' Tom Tree Marking Paint
8460

Water soluble, non-toxic, non-flammable, these environmentally friendly paints clean up easy and contain no methyl alcohol or petroleum distillates. Designed to be applied with any type of commercial tree marking applicator or air propelled sprayer.

Blue, 1 Gallon	9 lbs.	57071	$15.25
		4+	$14.25
		32+	$12.95
Orange, 1 Gallon	9 lbs.	57072	$15.25
		4+	$14.25
		32+	$12.95

A Extra Charge if Shipped by Air. See Shipping Information for details.

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Bark Knife
1212

Straight blade design with 45° offset handles for comfort. Use to shave bark off trees before brushing-on paint or to debark fence posts and poles. Choose from a 10″ cutting edge, 19″L overall or a 13″ cutting edge, 22″L overall.

Model 88 Bark Knife, 10″ Cutting edge, 19″ overall	2 lbs.	**59617**	**$39.75**
		3+	**$36.75**
Model 88 Bark Knife, 13″ Cutting edge, 22″ overall	2 lbs.	**59650**	**$46.25**
		3+	**$42.75**

Curved Blade Bark Scraper
2059

The curved blade design of this bark scraper protects your hands from injury by keeping them out away from the tree when shaving the bark. 9″ x 1-1/4″ Cutting edge, 16″ overall.

Bark Scraper	1 lb.	**59651**	**$68.50**

Trecoder® Backpack Tree Marking Gun
page 30

Wood Gouge Bark Spud
1213

Great for peeling the bark off trees and logs. The blade is 2-1/8″ W x 4-1/2″ L and the handle measures 18-1/2″ long.

Bark Spud	1 lb.	**75057**	**$40.95**

Timber/Tree Scribe
1211

Folding blade and metal handguard. 8″ Open, 5″ closed. Cutting width 0.275″.

Timber/Tree Scribe	7 oz.	**57402**	**$71.95**

New! Timber Tuff™ 5″ Curved Draw Shave
4835

Ideal for de-barking logs, firewood and posts! Sharpened 5″ curved blade with comfortable wood grip handles. Blade protector is included.

Timber Tuff 5″ Curved Draw Shave	2 lbs.	**59476**	**$22.50**
		3+	**$21.50**

GRÄNSFORS BRUK
SWEDEN

New! Gränsfors Bruk Swedish Drawknife
4969

Model 486

Meant to be used with both hands, this Swedish Draw Knife is forged into an arch for debarking and shaping logs. The protruding handles allow you to get plenty of power behind each stroke. The blade angle is adjusted by hand for the desired planing effect. Angle more sharply for more of a cutting action. Tanned leather sheath is included. **Length with Handles:** 25.5″L. **Cutting Edge:** 12.5″L. **Weight:** 1.8 lbs.

Gransfors Bruk Model 486 Swedish Drawknife	2 lbs.	**33079**	**$225.00**

New! Great Lakes Timber Scribe
4900

Designed and manufactured by a professional surveyor! Features a double edged cutting blade that forms a 5/8″ radius for right or left hand curved letter and number cuts, as well as an additional cutting edge for straight lines. And, there is no need for allen wrench adjustments to modify the tool to make these cuts! The steel cutter has been mildly tempered to maintain an edge while allowing for easy sharpening with a 5/32″ chain saw file. Includes a leather holster that can be worn on your belt. Made in the USA.

Great Lakes Timber Scribe	8 oz.	**57403**	**$89.95**

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New! Aervoe® Professional Choice Aerosol Boundary Marking Paint
4122

Up to 8 years of visibility! Adjustable fan spray tip produces horizontal or vertical 8″ wide spray pattern. Fast-drying, lead-free, weatherproof paint adheres to wet or dry surfaces. **Operating Temperature:** 30°F to 100°F.

New! Aervoe® Professional Choice Aerosol Tree Marking Paint
4127

360° Spray-Anyway valve and tip will mark at any angle. Fast-drying, lead-free, weatherproof paint won't soak into wood. Excellent adhesion on wet or dry bark and cut wood. **Operating Temperature:** 30°F to 100°F.

Aervoe® Lead-Free Aerosol Tree Marking Paint
1221

Formulated for long-lasting performance. Includes two nozzles, one wide band and one thin band. All paint is lead-free. Color retention exceeds Federal specifications. **Operating Temperature:** 30°F to 100°F.

Aervoe® Wet Coat™ Wet Surface Tree Marking Paint
1222

Designed for wet surface application conditions! Paint penetrates deep into the pores of wet lumber and is ideal for marking trees, logs, log grading etc. Provides long lasting identification on natural bark or cut lumber. **Operating Temperature:** 50°F to 90°F.

Aervoe® Lead-Free Fluorescent Glo Spray Paint
1228

Intense, fluorescent colors for fast attention! Lead-free paint is fast drying. Can be applied to trees, plastic, concrete, asphalt and many other indoor and outdoor surfaces. **Operating Temperature:** 50°F to 90°F.

Seymour Water-Based Tree & Industrial Spray Paint
1220

Flat, nonglossy colors. Special spray head produces narrow spray for marking trees, logs and lumber, and industry color coding. No fluorocarbons. **Operating Temperature:** 50°F to 90°F.

Nelson AeroSpot Spray Paint
1218

Each can includes two nozzles: one wide band and one thin band. Case lots sold in single colors only. 12 fl. oz. aerosol cans. **Operating Temperature:** -20°F to +120°F.

Tally Books and Counters page 87

Spray Can Handle
1219

Fits all standard aerosol cans. Durable plastic with built-in trigger.

Spray Can Handle 2 oz.		57695	$5.75

Aerosol Marking Paint

Brand	Type	Contents	Wt.		Light Blue	Blue	Purple	Green	Yellow	Orange	Red	Black	White	Fluorescent Blue	Fluorescent Pink	Fluorescent Orange	Fluorescent Yellow	Fluorescent Red	Fluorescent Green	Each	24+	48+
Aervoe Pro Choice	Boundary	15 fl. oz.	18 oz.	A		57633	57635		57661	57634	57640									$6.95	$5.80	$5.25
	Tree	15 fl. oz.	18 oz.	A	57676	57662				57677			57681							$6.25	$5.25	$4.75
		15 fl. oz.	18 oz.	A										57663		57667	57671	57670	57664	$6.70	$5.65	$5.05
Aervoe	Lead-Free Aerosol Tree Marking	13 fl. oz.	1 lb.	A	57594				57596	57595	57597									$4.80	$4.20	$3.90
		13 fl. oz.	1 lb.	A												57652		57651		$4.80	$4.20	$3.90
	Wet Coat Wet Surface	13 fl. oz.	1 lb.	A	57512				57515	57514	57513		57511							$5.20	$4.95	$4.35
	Fluorescent Glo	11 fl. oz.	1 lb.	A												57561			57562	$5.35	$4.35	$4.10
Seymour	Tree & Industrial	12.6 fl. oz.	1 lb.	A		57577		57578	57579	57580	57576		57574							$5.15	$4.25	$3.85
Nelson	AeroSpot	12 fl. oz.	1 lb.	A	57686				57688	57689	57691	57690	57685							$6.65	$6.20	$5.60
		12 fl. oz.	1 lb.	A										57614	57613	57694			57693	$8.65	$7.90	$6.90

Multi-Purpose Holder
1229

Great for paint cans, flagging, or anything else you need at your side!

Durable, 1″W nylon webbing strap attaches securely to your belt loop or other equipment. The highly visible, fluorescent orange strap can be secured around a can or through a tape roll with the Velcro® closure. Nickel plated swivel snap.

Multi-Purpose Holder	3 oz.	27295	$7.50

Ⓐ Extra Charge if Shipped by Air. See Shipping Information for details.

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Vers-A-Striper™ Model 800 Permanent Striping System
1233

Ideal for marking parking lots and athletic fields.

This lightweight striping system makes perfect radius turns with a simple adjustment. Striping adjusts 2″ to 4″ wide. Features a wind screen for clean paint lines, a metal pointer arrow, and the capacity to carry one case of paint. Cleans quickly with mild solvents or hot soapy water. Rust-proof all-metal construction. For use with Aervoe® Invert-A-Tip Aerosol Striping Paint only.

Vers-A-Striper Model 800	25 lbs.	**57702**	**$80.25**

Aervoe® Invert-A-Tip Aerosol Striping Paint
1232

20 fl. oz.

Mark pavement, gravel, soil, and grass with this high-hide, solvent-based paint that remains durable against ground traffic. Operates in inverted position and provides fast-drying, one-coat coverage with a four-inch stripe. One case (12 cans) covers approximately 1,400 feet. **Operating Temperature:** 65°F to 85°F.

		Traffic Yellow	Traffic White	
1 lb.	A	**57698**	**57697**	**$5.55**
			12+	**$4.30**
			48+	**$4.10**

Note: Works only with Aervoe® Vers-A-Striper,™ Marking Stick, & Spotmarker, each sold separately.

Marking Stick
1217

Use with any inverted tip marking paint. Lets you stand up straight as you mark the ground. 32″ Long, lightweight sturdy construction. Contoured handle for easy grip with built-in trigger.

Marking Stick	2 lbs.	**57556**	**$26.95**
		3+	**$24.50**

Spotmarker
1216

Use with any inverted tip marking paint. Convenient one-hand operation. 11″ Long, it balances the can and gives you better accuracy and control.

Spotmarker	14 oz.	**57554**	**$16.75**

Aervoe® Invert-A-Cap™ Lead-Free Inverted Tip Marking Paint
1226

17 fl. oz.

Operates in an inverted position. Lead-free paint for marking wood, concrete, asphalt, brick and gravel. Meets OSHA requirements. **Operating Temperature:** 50°F to 90°F.

Aervoe® Multi-Purpose Marking Paint
8259

Great for utility/locator marking, construction sites and proposed excavation. Cost-effective approach to marking while still providing good visibility for up to two months! Lead-free, non-clogging can empties contents completely. Adheres to almost any surface; not recommended for use on turf surfaces. **Operating Temperature:** 50°F to 100°F. **Contents:** 16.6 fl. oz.

Rust-Oleum® Industrial Choice Inverted Marking Paint
8242

Use on concrete, pavement, grass, gravel and more! Precision-line spray tip for easy-to-read markings with virtually no overspray - plus, it marks more linear feet than the competition. "No Mess" spray tip guaranteed not to clog. Can be applied down to 25°F (-4°C). Water-based paint dries in less than 5 minutes. **Contents:** 17 fl. oz. USDA Acceptable.

Seymour® Stripe™ Water-Based Inverted Tip Marker
1227

13 fl. oz. and New! 20 fl. oz.

Marks on soil, grass, gravel and pavement. Fast drying and long wearing! Operates in an inverted position. Spray tip empties the can without clogging! No fluorocarbons. **Operating Temperature:** 50°F to 90°F.

Inverted Tip Marking Paint

Brand	Type	Contents	Weight		Blue	Green	Yellow	Orange	Red	Pink	White	Fluorescent Yellow	Fluorescent Orange	Fluorescent Red	Fluorescent Rd/Or	Each	12+	48+
Aervoe	Invert-A-Cap Lead-Free	17 fl. oz.	1 lb.	A	57545	57546	57544	57547	57543	57551	57560		57549	57548		$5.15	$4.10	$3.65
	Multi-Purpose	16.6 fl. oz.	1 lb.	A	57138		57139	57140	57141		57142	57153	57143	57144		$4.35	$3.55	$3.20
Rust-Oleum	Industrial Choice Inverted	17 fl. oz.	1 lb.	A	57145	57146	57147	57148	57149		57150		57151	57152		$5.35	$4.40	$4.05
Seymour	Stripe Water-Based	13 fl. oz.	1 lb.	A	57586		57582				57581		57583	57585	57584	$3.95	$3.25	$2.90
		20 fl. oz.	1 lb.	A	57625		57629				57630		57626	57627	57628	$4.50	$3.75	$3.35

A Extra Charge if Shipped by Air. See Shipping Information for details.

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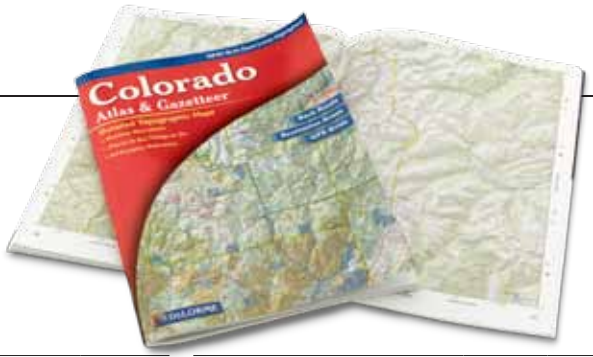
DeLorme® Atlases

5527

Including comprehensive state details

DELORME®



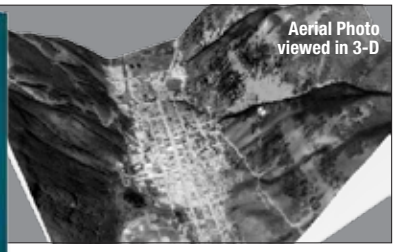
These 11″ x 15-1/2″ paperback atlases cover individual states in their entirety. Atlases come with full-color topographic maps. **Scale:** 1″ to 2.4 miles, except for mountain states, including Montana, that are all 1″ to 4 miles except Colorado; Texas is 1″ to 6.3 miles. Atlases identify back roads, dirt roads, trails, lakes, streams, public lands, forests, wetlands, and also locate boat ramps, campgrounds, campsites, railroads, airfields, and powerlines. Includes an index of place names from major cities to country crossroads.

Alabama	14 oz.	**09443**	**$19.95**
Alaska	2 lbs.	**09400**	**$19.95**
Arizona	14 oz.	**09401**	**$19.95**
Arkansas	13 oz.	**09431**	**$22.95**
California	2 lbs.	**09452**	**$24.95**
Colorado	1 lb.	**09404**	**$19.95**
Connecticut/Rhode Island	1 lb.	**09451**	**$19.95**
Florida	2 lbs.	**09405**	**$24.95**
Georgia	15 oz.	**09436**	**$19.95**
Hawaii	13 oz.	**09446**	**$19.95**
Idaho	13 oz.	**09406**	**$19.95**
Illinois	1 lb.	**09407**	**$19.95**
Indiana	14 oz.	**09437**	**$19.95**
Iowa	13 oz.	**09438**	**$19.95**
Kansas	1 lb.	**09430**	**$19.95**
Kentucky	1 lb.	**09428**	**$19.95**
Louisiana	13 oz.	**09441**	**$19.95**
Maine	1 lb.	**09408**	**$19.95**
Maryland/Delaware	1 lb.	**09409**	**$19.95**
Massachusetts	1 lb.	**09449**	**$19.95**
Michigan	1 lb.	**09410**	**$19.95**
Minnesota	1 lb.	**09411**	**$19.95**
Mississippi	14 oz.	**09440**	**$19.95**
Missouri	15 oz.	**09432**	**$19.95**
Montana	1 lb.	**09412**	**$19.95**
Nebraska	1 lb.	**09429**	**$19.95**
Nevada	15 oz.	**09447**	**$19.95**
New Hampshire	1 lb.	**09413**	**$19.95**
New Jersey	1 lb.	**09448**	**$19.95**
New Mexico	15 oz.	**09444**	**$19.95**
New York	1 lb.	**09414**	**$19.95**
North Carolina	1 lb.	**09415**	**$19.95**
North Dakota	13 oz.	**09445**	**$19.95**
Ohio	1 lb.	**09416**	**$19.95**
Oklahoma	14 oz.	**09435**	**$19.95**
Oregon	1 lb.	**09417**	**$19.95**
Pennsylvania	1 lb.	**09418**	**$19.95**
South Carolina	14 oz.	**09442**	**$19.95**
South Dakota	15 oz.	**09450**	**$19.95**
Tennessee	15 oz.	**09419**	**$19.95**
Texas	2 lbs.	**09420**	**$24.95**
Utah	14 oz.	**09421**	**$19.95**
Vermont	15 oz.	**09422**	**$19.95**
Virginia	1 lb.	**09423**	**$19.95**
Washington	1 lb.	**09424**	**$19.95**
West Virginia	13 oz.	**09427**	**$19.95**
Wisconsin	1 lb.	**09425**	**$19.95**
Wyoming	15 oz.	**09426**	**$19.95**

MyTopo Terrain Navigator Professional Version 9.5 DVDs

2658

The USGS Topo Maps you trust now with 1 meter Color Aerial Photos!



Official USGS topo maps have been scanned to produce the highest quality maps available! Maps are available in these scales for the continental US: 1:24/25,000 (7.5 minute series) and 1:100,000. Maps are found quickly using the graphical index map, or search by address, map name, coordinates, ZIP code, or over 50 types of place names such as rivers and summits. In addition, upon Internet registration, you will also have access to download aerial photos* (for one year) within the state region that you buy. These high-quality digital USGS maps and 1 meter color aerial photos* can be viewed in 2-D or 3-D and can be added to PowerPoint presentations and Word documents. Other features include Google™ Earth Interface, easy export of data to Google™ Earth, a Street Layer which displays the current street map superimposed on the topographic map and aerial photos, a Polygon Tool that creates basic shapes while computing (and automatically displaying) their area, a "Splitter" window control for side-by-side (or top-bottom) display of two maps (and/or aerial photos), web links that automatically open web pages relating to the current geographic location, PDF document creation directly from the Print window, and Project Synchronization for automatically sharing your markers, routes, tracks, and geopins with other copies of Terrain Navigator Pro on your mobile device or with coworkers. GPS features include the transfer of Marks, Routes and Tracks from your PC into popular GPS receivers; the transfer of Marks, Routes and Tracks from your GPS back to Terrain Navigator Pro to analyze where you've been on a detailed map; LOC and GPX geocaching format support; the ability to connect a GPS to a laptop and turn it into a moving map display; and an extensive set of tools for drawing, analyzing, managing and printing GPS waypoints, routes, tracks, and marks. You can also export routes, tracks, marks, and other line, point, and area data as shape (SHP) files into ESRI software. Shape files can be directly imported into Terrain Navigator Pro. Topo/aerial maps can be exported directly to custom map compatible Garmin units.

Other features include: PLSS (Public Land Survey System) bearings and waypoints, support for geo-referenced digital pictures, line-of-sight height offsets, 3-D "fly-around" video clip recording, and download of maps to your hard drive for convenience and faster performance. **System Requirements:** Windows XP or Vista; 800x600 Display; 16/24/32 bit Video Card (HiColor/True Color); OpenGL Video Accelerator recommended for optimum 3-D performance; DVD-ROM drive; and an Internet connection (high speed recommended) for access to Aerial Photos and updated topographic maps.

*Aerial photos require a subscription to be viewed. The first year's subscription is included and one-year subscriptions after the first year are available from the manufacturer.

Alabama	▲	1 lb.	**08213**	**$399.00**
Alaska	▲	1 lb.	**08214**	**$399.00**
Arkansas	▲	1 lb.	**08215**	**$399.00**
Arizona	▲	1 lb.	**08216**	**$399.00**
California	▲	1 lb.	**08217**	**$399.00**
Colorado	▲	1 lb.	**08218**	**$399.00**
Florida	▲	1 lb.	**08219**	**$399.00**
Georgia	▲	1 lb.	**08220**	**$399.00**
Idaho	▲	1 lb.	**08221**	**$399.00**
Illinois	▲	1 lb.	**08222**	**$399.00**
Indiana	▲	1 lb.	**08223**	**$399.00**
Iowa	▲	1 lb.	**08224**	**$399.00**
Kansas	▲	1 lb.	**08225**	**$399.00**
Kentucky	▲	1 lb.	**08226**	**$399.00**
Louisiana	▲	1 lb.	**08227**	**$399.00**
Michigan	▲	1 lb.	**08228**	**$399.00**
Minnesota	▲	1 lb.	**08229**	**$399.00**
Mississippi	▲	1 lb.	**08230**	**$399.00**
Missouri	▲	1 lb.	**08231**	**$399.00**
Montana	▲	1 lb.	**08232**	**$399.00**
Nebraska	▲	1 lb.	**08233**	**$399.00**
Nevada	▲	1 lb.	**08237**	**$399.00**
New Mexico	▲	1 lb.	**08236**	**$399.00**
New York	▲	1 lb.	**08254**	**$399.00**
North Carolina	▲	1 lb.	**08234**	**$399.00**
North Dakota	▲	1 lb.	**08235**	**$399.00**
Ohio	▲	1 lb.	**08238**	**$399.00**
Oklahoma	▲	1 lb.	**08239**	**$399.00**
Oregon	▲	1 lb.	**08240**	**$399.00**
Pennsylvania	▲	1 lb.	**08241**	**$399.00**
South Carolina	▲	1 lb.	**08242**	**$399.00**
South Dakota	▲	1 lb.	**08243**	**$399.00**
Tennessee	▲	1 lb.	**08244**	**$399.00**
Texas	▲	1 lb.	**08245**	**$399.00**
Utah	▲	1 lb.	**08246**	**$399.00**
Virginia	▲	10 oz.	**08247**	**$399.00**
Washington	▲	1 lb.	**08248**	**$399.00**
West Virginia	▲	10 oz.	**08249**	**$399.00**
Wisconsin	▲	1 lb.	**08250**	**$399.00**
Wyoming	▲	11 oz.	**08251**	**$399.00**
Maine, New Hampshire, Vermont, Connecticut, Rhode Island, Massachusetts	▲	1 lb.	**08252**	**$399.00**
New Jersey, Maryland, Delaware, Washington, DC	▲	9 oz.	**08253**	**$399.00**

*Aerial photos require a subscription to be viewed. The first year's subscription is included and one-year subscriptions after the first year are available from the manufacturer.

▲ **Note:** Non-returnable if opened or seal is broken.

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DeLorme® Topo Version 10.0

4526

Improve every facet of your pre-trip planning, and navigate with total confidence in even the most remote locations. This seamless topographic map software delivers market-leading GPS and routing capabilities along with the most up-to-date detail available. Includes topo and street level maps for the US and Canada as well as major roads for Mexico. New content includes 268,000 additional roads, thousands of miles of trails, BLM lands, many state hunting areas, and updated campgrounds. A dynamic new 3-D feature lets you fly over and through the terrain, from any compass point or elevation. Get instant elevation profiles for any road, trail, or stream. Access aerial images for a true picture of your destination. Create time-saving routes over roads and trails. Customize your maps with symbols and notes, and print at your choice of scales including 1:24,000. Upload route waypoints to your GPS receiver and you're ready to go. After your trip, convert any collected GPS tracks to routable roads or trails. Link your photos and field notes to their precise map locations. You can even share experiences and GPS files with others on DeLorme's Eartha Community Atlas.

Minimum System Requirements: Microsoft Windows 2000, 64 MB RAM; Windows XP, 128MB RAM; Pentium 300 MHz or higher, DVD-ROM drive. **For GPS Use:** DeLorme Earthmate®, GPSTripmate®, or any fully-compatible NMEA receiver from GARMIN, Magellan, Lowrance/Eagle, Rockwell/Conexant, Brunton, or Trimble.

DeLorme Topo Version 10.0 North America	▲	10 oz.	**08401**	**$99.95**

DELORME®

DeLorme® Earthmate® GPS

8330

Providing a whole new level of geographic detail, the Earthmate allows you to view multiple views of the same GPS location to gain a comprehensive view of where you are. Features a 65K-color transflective screen for maximum visibility under a variety of lighting conditions, 3.5 GB internal memory, an SD slot, and it conforms to IPX-7 waterproof standard with impact-resistant rubberized housing for a solid grip. The Earthmate's high-sensitivity 32-channel STMicroelectronics Cartesio chipset and DeLorme ConstantLock™ for quick satellite acquisition and reliable signal retention – even in challenging GPS environments. The dual-core processor provides lightning quick redraws when panning or zooming even with large aerial imagery files. Includes detailed onboard U.S. base map with data, secondary, and connector roads, plus DeLorme Topo 10.0 North America software with full, updated U.S. topographic & street maps to export as needed to your Earthmate. Includes a USB interface cable, a convenient neck lanyard, 2 AA alkaline batteries, a comprehensive user's manual, and sample supplementary data downloads.

Receiver: High-sensitivity NMEA-compliant, WAAS-enabled 32-channel GPS receiver with low-power baseband and RF chipset. **Acquisition Times:** Hot Start, 5-6 seconds; Warm, <45 seconds; Cold, Approximately 60 seconds. **Update Rate:** 1/second, continuous. **GPS accuracy:** Position, < 15 meters, 95% typical*; Velocity, 0.05 meter/sec steady state. **WAAS accuracy:** Position, < 3 meters, 95% typical (Subject to accuracy degradation to 100m 2DRMS under the United States Department of Defense-imposed Selective Availability Program). **Internal Memory:** 3.5 GB, stores up to 20,000 waypoints and 100 routes. **Display:** Sharp high-resolution 2.2″ Transflective TFT color display (220 x 176 pixels). **Expandable Memory & Storage:** Supports SDHC high-capacity SD cards up to 32 GB. **Power:** 2 AA batteries (included). **Unit Size:** 2.43″W x 5.25″ H x 1.5″D. **Weight:** 6.7 ounces. **Topo 10.0 North America System Requirements – Operating Systems:** Microsoft Windows Vista® Home/Basic/Home Premium/Ultimate/Business with 512 MB RAM (1+GB recommended); **U.S. Version Microsoft Windows XP (Service Pack 2 or later):** 512 MB RAM (1+ GB recommended). **Internet Browser:** Microsoft Internet Explorer 6.02 or later. **Hardware:** 1.5 GHz or higher processor (1.8 GHz recommended); 1.7 GB of available hard-disk space (6.4 GB if all map data for North America is loaded to hard drive; DVD-ROM Drive; 3D-capable video card with 64 MB VRAM (128 recommended) and 1024 x 768 screen resolution or higher.

DeLorme® Earthmate PN-60

Features include a unique ability to display multiple map and aerial imagery types, cutaway elevation profiles with user postition pinpointed, allows for the exchange of GPX files (including waypoints, tracks and geocaches) to an SD card, 3.5 GB of user-available memory, icon-based user interface, and an ambient light sensor for optimal battery life. Topo 10.0 North America included.

DeLorme Earthmate PN-60 GPS	2 lbs.	**37210**	**$299.95**

DeLorme Earthmate PN-60 GPS with XMap Professional Software

Preloaded with XMap Professional Software. The Earthmate PN-60 GPS allows you to take your existing GIS data in the field and augment it with collected waypoints and tracks. With the XMap Professional software installed, the Earthmate PN-60 makes it possible for you to view the following: Shapefiles, Cad files, and other data layers that have been imported into XMap's Openspace format; seamless 1:24,500 USGS quad sheets; XMap USA Topographic maps combining contours and elevation with the latest road and street detail; GIS transparency and Hybrid maps; third party imagery and other raster data layers with MrSID of GeoTIFF format or downloaded aerial imagery from DeLorme; and images and maps imported through XMap's image registration process.

DeLorme Earthmate PN-60 GPS with XMap Professional Software	3 lbs.	**37439**	**$499.95**

DESKTOP. TABLET. MOBILE.
THE NEW FORESTRY-SUPPLIERS.COM

▲ **Note:** Software and Videos are non-returnable if the seal is broken or opened.

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1

1 New! Spectra Precision® MobileMapper® 20

4911

Efficient, affordable, and accurate, this professional GIS receiver provides a ready-to-use, comprehensive mapping solution for the field and office. Ideal for data maintenance or inspection, the MobileMapper 20 logs your assets in real-time with 1 to 2 meter accuracy, and post-processing allows for half-meter accuracy (software sold separately). The MobileMapper 20 features a compact, lightweight design and is powered by a long-life battery. With the user-friendly Windows® Embedded Handheld 6.5, you can upload the necessary utilities or software to accommodate your next job. Combine the MobileMapper 20 with MobileMapper Field for a complete solution in GIS data collection, asset management, area measurement, map creation, and updates. The software also provides a direct interface to external sensors. The MobileMapper Office tool can be used to differentially post-process raw GPS data collected with MobileMapper Field software. Utilizing an Internet connection, MobileMapper Office automatically finds and downloads the base data files that match collected raw data. The software then computes corrected positions automatically. Includes MobileMapper 20 receiver, universal A/C battery charger, Li-Ion battery, USB cable, hand strap, and stylus.

Operating System: Microsoft® Windows Embedded Handheld 6.5. **Processor:** 600 MHz. **Communications:** GSM/GPRS/HSPA (3.5G), WiFi, Bluetooth, USB. **Real-time Accuracy:** <2 m typical. **Post-Processed Accuracy:** <50 cm typical. **Display:** 3.5″ VGA color TFT high resolution display sunlight readable with touch screen, LED backlight. **Camera:** 5 megapixel. **Sensors:** e-Compass, G-sensor. **Memory:** 256 MB SDRAM, 512 MB NAND Flash (non volatile), MicroSDHC™ memory card (up to 32GB). **Power Source:** Removable Li-Ion battery. **Battery Life:** >20 hours. **Charge Time:** 4 hours. **Operating Temperature:** 14°F to 140°F (-10°C to 60°C). **Dimensions:** 6.7″ x 3.5″ x 1″. **Weight (with battery):** 13.4 oz.

MobileMapper 20 with MobileMapper Field and Office Software	R	1 lb.	**37730**	**Call for $**
MobileMapper 20 Unit Only (without software)	R	1 lb.	**37731**	**Call for $**
Optional Post Processing Software for MobileMapper Field Software		1 oz.	**38897**	**$495.00**
ArcPad Software		1 oz.	**37732**	**Call for $**
Optional Post Processing Software for ArcPad Software		1 oz.	**37733**	**Call for $**
Li-Ion Battery Pack		3 oz.	**39412**	**$45.00**
Battery Charger		12 oz.	**39413**	**$60.00**

2

2 Spectra Precision® MobileMapper® 120 L1 GPS

7661

Designed for GIS data collection and mapping, the MobileMapper 120 integrates an open operating system, built-in communications and powerful BLADE technology which allows it to operate in extreme GNSS environments while maintaining the high accuracies (sub-meter, decimeter or centimeter real-time accuracy modes) desired by GIS professionals. Extended position availability in urban canyons and under canopy. Delivers state-of-the-art features in a ruggedized, smart, compact, and lightweight handheld concept that gives users the ultimate field experience. Integrated communications allow easy data transfer and GNSS differential. Powerful electronics provide fast data collection and seamless processing. Other features include extended connectivity and multimedia features, Windows Mobile standards for full 3rd party software compatibility, ancillary sensors interfacing, GNSS scalability: GPS or GPS/Glonass configurations, and compatible with 3rd party networks (VRS, FKP, MAC).

Satellite Tracking: 45 parallel all-in-view channels. **Accuracy:** Real-time SBAS, <50 cm typical; Real-time DGPS, <30 cm typical. **Display:** Backlit, color TFT High resolution with touchscreen, sunlight readable. **Memory Capacity:** 256 MB SDRAM, 2 GB Nand Flash (non-volatile), removable SDHC memory card. **Operating System:** Microsoft Windows 6.5 Professional (Embedded). **Power Source:** Removable Lithium Ion, 6600mAh. **Battery Life:** >8 hours. **Waterproof:** yes. **Operating Temperature:** -4°F to 140°F (-20°C to 60°C). **Dimensions:** 7.5″H x 3.5″W x 1.7″D. **Weight (with batteries):** 1.43 lbs.

MobileMapper 120 L1 GPS	R	2 lbs.	**37756**	**Call for $**
MobileMapper 120 L1 GPS With MobileMapper Field and Office Software	R	4 lbs.	**37787**	**Call for $**
Optional Post Processing Software for MobileMapper Field Software		1 oz.	**38897**	**$495.00**
Battery Pack, Li-ion		4 oz.	**37796**	**$99.95**
Bracket for Pole Mount		10 oz.	**37797**	**$184.95**
Precision External Antenna		1 lb.	**38901**	**$795.00**
External Antenna Survey Cable		3 oz.	**38894**	**$89.95**
New! ArcPad Software		1 oz.	**37732**	**Call for $**
New! Optional Post Processing Software for ArcPad Software		1 oz.	**37733**	**Call for $**

3

3 Spectra Precision® ProMark 120

7706

Thanks to the embedded BLADE technology as well as GPS and GLONASS signals tracking, ProMark 120 provides high-precision measurements even in very demanding or obstructed environments. The ProMark Field software provides all necessary tools without any unnecessary or complicated features. Lightweight, but rugged and waterproof handheld design, all-day-long autonomy, and large memory make it a perfect solution for easy and efficient post-processing. Upgrade easily to GLONASS and use not only in post-processing but also in RTK or GIS applications. Built on the state-of-the-art Microsoft Windows Embedded 6.5 Professional based platform with embedded wireless communications. Includes one GNSS receiver, an integrated stylus, a docking station, universal A/C Adapter, USB data cable, a field bracket, HI tape, ProMark Field software, the ASH-660 (L1 GPS/GLONASS) antenna, and a soft field bag.

Satellite Tracking: 45 parallel all-in-view channels. **Accuracy:** SBAS, <50 cm typical; DGPS, <30 cm +1 ppm typical.; RTK, 10 mm +1 ppm typical; Static post-processing, 5 mm +1 ppm typical; Kinematic post-processing, 12 mm +2 ppm typical. **RTK Initialization Time:** <3 min typical (GPS + GLONASS, <5 min typical (GPS only). **RTK Range:** Up to 10 km typical (GPS + GLONASS), Up to 7 km typical (GPS only). **Display:** Color TFT High resolution with touchscreen, sunlight readable. **Memory Capacity:** 256 MB SDRAM, 2 GB Nand Flash (non-volatile), SDHC memory card slot. **Operating System:** Microsoft Windows Embedded 6.5 Professional. **Power Source:** Removable Lithium Ion, 6600mAh. **Battery Life:** >8 hours. **Waterproof:** yes. Operating Temp.: -4°F to 140°F (-20°C to 60°C). **Dimensions:** 7.5″H x 3.5″W x 1.7″D. **Weight (with batteries):** 1.43 lbs.

ProMark 120 L1 GPS	R	3 lbs.	**38895**	**Call for $**
GLONASS Firmware/Software		1 oz.	**38896**	**Call for $**
Battery Pack, Li-ion		4 oz.	**37796**	**$99.95**
Bracket for Pole Mount		10 oz.	**37797**	**$184.95**
Precision External Antenna		1 lb.	**38901**	**$795.00**
External Antenna Survey Cable		3 oz.	**38894**	**$89.95**
Transcend 2.0 GB SD Card		4 oz.	**02513**	**$27.25**

R Cannot be sold internationally

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GARMIN

Garmin® Monterra™ GPS with Android™ OS

4774

WAAS enabled

Monterra is a full-featured Wi-Fi® enabled GPS navigator that combines Garmin's powerful mapping with the versatility of Android. Get Android apps for Monterra on Google Play, or access professional apps to extend your office to the field. Monterra is the ultimate mapping tool with custom 3-D mapping that allows you to see rich textures, such as hills, valleys, lakes and forests. Zoom in, pan out and rotate the 3-D map using multi-touch. With Wi-Fi, ANT+, Bluetooth® and NFC, Monterra lets you share your data, maps, waypoints, tracks, routes and geocaches up to 50 times faster with other wireless compatible devices. Other features include a brilliant 4″ dual orientation, sunlight-readable, durable mineral glass display with multi-touch interface; high-sensitivity GPS/GLONASS receiver for better positioning; 3 axis compass with accelerometer; gyro and barometric altimeter; built-in waterproof microphone and speaker with 3.5mm jack; FM radio; built-in UV sensor to help protect from the sun; plus a built-in 8MP autofocus camera with LED flash allowing users to take geotagged photos and capture full 1080p HD video. Dual battery system allows you to use the rechargeable Lithium-ion pack (included) or 3 replaceable AA batteries.

Pre-Loaded with TOPO U.S. 100K Maps

Features 3 GB of internal memory and is pre-loaded with TOPO U.S. 100K Maps. Includes Monterra, Lithium-ion battery pack, USB cable, AC adapter, anti-glare screen protectors, and documentation.

Garmin® Monterra™ GPS with Android™ OS Pre-Loaded with TOPO U.S. 100K Maps	2 lbs.	**39085**	**$699.99**
Screen Protector for Garmin® Monterra™	1 oz.	**39121**	**$7.95**

Garmin® Monterra™ GPS with Android™ OS Pre-Loaded with Worldwide Basemap

Features 6 GB of internal memory and is pre-loaded with Worldwide Basemap. Includes Monterra, Lithium-ion battery pack, USB cable, AC adapter, anti-glare screen protectors, and documentation.

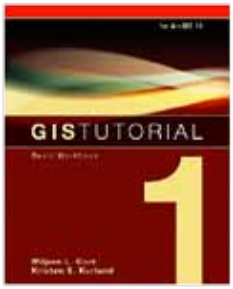
Garmin® Monterra™ GPS with Android™ OS Pre-Loaded with Worldwide Basemap	2 lbs.	**39087**	**$649.99**
Screen Protector for Garmin® Monterra™	1 oz.	**39121**	**$7.95**

Make	Garmin	
Model	**Monterra**	**Monterra GIS**
SN	**39085**	**39087**
$	**$699.99**	**$649.99**
GPS Specifications		
Receiver Channels	12	12
GPS Antenna	High Sensitivity, Patch	High Sensitivity, Patch
WAAS Capable	Yes	Yes
Acquisition Time	0:15 - 0:45	0:15 - 0:45
Accuracy	±15m	±15m
DGPS	<3m	<3m
Waterproof Standard	IPX7	IPX7
Unit Size (HWD)	2.9″ x 5.9″ x 1.4″	2.9″ x 5.9″ x 1.4″
Unit Weight	11.7 oz.	11.7 oz.
Display Type	Transflective, 65K color TFT, dual orientation	Transflective, 65K color TFT, dual orientation
Display Size (in.)	2″ x 3.5″	2″ x 3.5″
Battery	lithium-ion (included) or 3 "AA" batteries (not included)	lithium-ion (included) or 3 "AA" batteries (not included)
Battery Life (Hours)	16/22 (AA)	16/22 (AA)
GPS Expandability		
Internal Memory	3 GB	6 GB
Expandability	microSD card	microSD card
USB & Serial	High Speed USB	High Speed USB
Waypoints	4,000	4,000
Tracklog Points	10,000	10,000
Routes/Legs	200	200
GPS Maps/Storage		
Basemap	Worldwide and TOPO 100K	Worldwide
Map Storage	—	—
Topographic Maps (Not included)	Mapsource Topo	Mapsource Topo
Marine Maps (Not included)	Mapsource BlueChart g2	Mapsource BlueChart g2
GPS Features		
Area Calculation	Yes	Yes
Electronic Compass	Yes	Yes
Barometer/Altimeter	Yes	Yes
Calendar	Yes	Yes
Audible Alarms	Anchor, Arrival, Clock, Offcourse	Anchor, Arrival, Clock, Offcourse
Elevation/Vertical Speed	No	No
Photo Navigation	Yes	Yes
Unit-to-Unit Transfer	Yes	Yes
Celestial Information	Yes	Yes

GIS Tutorial Workbooks

7574

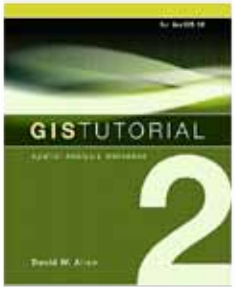
Designed for beginners to advanced knowledge users. Included with each is a fully functioning 180-day trial version of ArcGIS 10 software on DVD and CD of data for working through exercises.



GIS Tutorial 1: Basic Workbook, Fourth Edition

By Wilpen L. Gorr and Kristen S. Kurland. Ideal for beginners. Provides tutorials and assignments that teach you how to collect data, create maps, and perform spatial analysis. Presented in a step-by-step format, the book can be adapted to your specific needs. Updated for ArcGIS 10, it demonstrates a range of GIS functionality from querying interactive maps to running geoprocessing tools, plus it introduces ArcGIS extensions for advanced analysis. 428 Pages. Softcover.

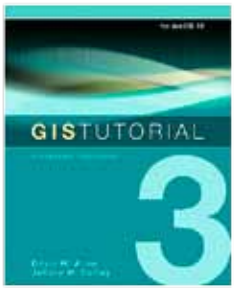
GIS Tutorial 1	3 lbs.	**60051**	**$79.95**



GIS Tutorial 2: Spatial Analysis Workbook, Second Edition

By David W. Allen. Offers hands-on exercises to help GIS users at the intermediate level continue to build problem-solving and analysis skills. Provides a system for GIS users to develop proficiency in various spatial analysis methods including location analysis; change over time, location, and value comparisons; geographic distribution; pattern analysis; and cluster identification. 340 Pages. Softcover.

GIS Tutorial 2	2 lbs.	**60052**	**$79.95**



GIS Tutorial 3: Advanced Workbook

By David W. Allen and Jeffery M. Coffey. For intermediate to advanced GIS users. Explores the full breadth of ArcGIS software by demonstrating the complex capabilities of the tools available with the higher license levels of ArcGIS® Desktop. Divided into four sections: geodatabase framework design, data creation and management, workflow optimization, and labeling and symbolizing. Sections contain tutorials composed of step-by-step instructions on how to perform pertinent tasks, exercises to reinforce the concepts taught, reviews, study questions, and real-world applications. 412 Pages. Softcover.

GIS Tutorial 3	3 lbs.	**60053**	**$79.95**

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GARMIN

Garmin® Montana Series GPS

WAAS enabled

7763

Both durable and waterproof, the Montana series takes recreational navigation to a new level! The large, bright 4˝ 65k color TFT dual orientation display has a built-in basemap, a high sensitivity GPS receiver with HotFix®, and supports multiple mapping options like BirdsEye™ Satellite Imagery, BlueChart® g2 and TOPO U.S. 24K. Other features include a built-in 3-axis tilt-compensated electronic compass, a barometric altimeter, a one-of-a-kind dual battery system, and it supports geocaching GPX files for downloading geocaches and details straight to your unit.

Garmin® Montana 600	2 lbs.	**39074**	**$469.99**

Garmin® Montana™ 650

All the features of the Model 600 plus a 5 MP autofocus digital camera with automatic geo-tagging, allowing you to mark, remember and navigate back to the exact spot in the future. Includes Montana 650, Lithium-ion battery pack, USB cable, AC charger, and Quickstart guide.

Garmin® Montana 650	2 lbs.	**39075**	**$529.99**

Garmin® Montana™ 650t

Based on the Montana™ 650, the Montana 650t comes pre-loaded with topographic maps and has an internal memory of 3.5 GB. Includes Montana 650t, Lithium-ion battery pack, USB cable, AC charger, and Quickstart guide.

Garmin® Montana 650t	1 lb.	**39076**	**$599.99**

GARMIN

Garmin® Oregon® Series GPS Receivers

WAAS enabled

8698

Garmin's most sunlight-readable handheld yet! Plus it has an all-new responsive, yet durable touchscreen and dual orientation views. Each comes with a faster processor allowing maps to be zoomed, panned, and rotated using multi-touch, GLONASS satellite tracking for more accurate positioning; a built-in 3-axis compass plus accelerometer and barometric altimeter; and a customizable action button.

Oregon® 600 and 600t

Includes dual battery system allowing the use of 2-AA batteries or the optional NiMH battery pack.

Oregon 600	15 oz.	**39171**	**$399.99**
Oregon 600t, Pre-loaded with Garmin's most up-to-date U.S. TOPO 100K maps for extra detail.	15 oz.	**39176**	**$479.99**

Oregon® 650 and 650t

Includes 8MP camera with auto focus and digital zoom and dual battery system allowing the use of 2-AA batteries or a NiMH battery pack (included).

Oregon 650	1 lb.	**39177**	**$479.99**
Oregon 650t, Pre-loaded with Garmin's most up-to-date U.S. TOPO 100K maps for extra detail.	1 lb.	**39178**	**$549.99**

Prices and models change throughout the year, check our website for the most current status.

GPS Accessories	Montana 600	Montana 650	Montana 650t	Oregon 600	Oregon 600t	Oregon 650	Oregon 650t	Weight	$
Replacement USB Cable	39051	39051	39051	39051	39051	39051	39051	4 oz.	$14.95
12V Adapter	33921	33921	33921	33921	33921	33921	33921	6 oz.	$22.95
AA cell, pack of 4	02352	02352	02352	02352	02352	02352	02352	7 oz.	$3.25
Rechargeable NiMH Battery	—	—	—	39185	39185	39185	39185	3 oz.	$25.95
Repl. Li-Ion Battery	33925	33925	33925	—	—	—	—	2 oz.	$39.25
External Vehicle Antenna	39271	39271	39271	—	—	—	—	5 oz.	$28.95
Windshield mount	39313	39313	39313					7 oz.	$52.95
RAM GPS Cradle*	39133	39133	39133	—	—	—	—	13 oz.	$30.70
	—	—	—	39344	39344	39344	39344	10 oz.	$8.96
2.5˝Dia. Screw-In Mount*	39135	39135	39135	39135	39135	39135	39135	6 oz.	$17.46
1˝Ball, Suction Cup Mount*	39189	39189	39189	39189	39189	39189	39189	4 oz.	$30.49
RAM 1.25˝U-Bolt Mount*	39206	39206	39206	39206	39206	39206	39206	5 oz.	$28.55
RAM 2.5˝U-Bolt Mount*	39136	39136	39136	39136	39136	39136	39136	8 oz.	$34.00
GPS Memory Cards									
▲ 2 GB Micro SD Card	02512	02512	02512	02512	02512	02512	02512	3 oz.	$12.95

▲ **Note:** Non-returnable if opened or seal is broken.
*RAM needs two components to make a complete unit. Order RAM cradle and base separately.

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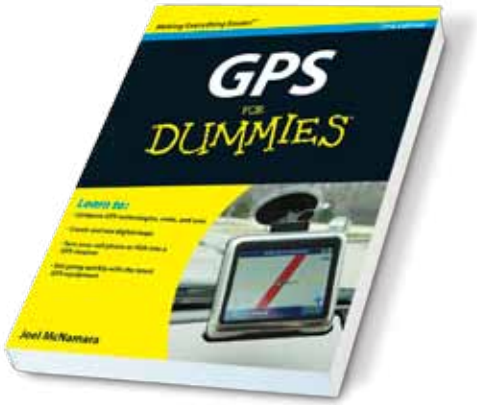
Make	Garmin	Garmin	Garmin	Garmin	Garmin	Garmin	Garmin
Model	**Montana 600**	**Montana 650**	**Montana 650t**	**Oregon 600**	**Oregon 600t**	**Oregon 650**	**Oregon 650t**
SN	**39074**	**39075**	**39076**	**39171**	**39176**	**39177**	**39178**
$	**$469.99**	**$529.99**	**$599.99**	**$399.99**	**$479.99**	**$479.99**	**$549.99**
GPS Specifications							
Receiver Channels	12	12	12	12	12	12	12
GPS Antenna	High Sensitivity Patch	High Sensitivity Patch	High Sensitivity Patch	High Sensitivity Patch	High Sensitivity Patch	High Sensitivity Patch	High Sensitivity Patch
WAAS Capable	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Acquisition Time	0:15 - 0:45	0:15 - 0:45	0:15 - 0:45	0:01 - 0:36	0:01 - 0:36	0:01 - 0:36	0:01 - 0:36
Accuracy	±15m	±15m	±15m	±10m	±10m	±10m	±10m
DGPS	<3m	<3m	<3m	3-5m	3-5m	3-5m	3-5m
Waterproof Standard	IPX7	IPX7	IPX7	IEC 60529 IPX7	IEC 60529 IPX7	IEC 60529 IPX7	IEC 60529 IPX7
Unit Size (HWD)	2.9″x 5.7″x 1.4″	2.9″x 5.7″x 1.4″	2.9″x 5.7″x 1.4″	4.5 x 2.4 x 1.3	4.5 x 2.4 x 1.3	4.5 x 2.4 x 1.3	4.5 x 2.4 x 1.3
Unit Weight	10.2 oz.	10.2 oz.	10.2 oz.	7.4 oz.	7.4 oz.	7.4 oz.	7.4 oz.
Display Type	Transflective, 65K color TFT, Dual Orientation	Transflective, 65K color TFT, Dual Orientation	Transflective, 65K color TFT, Dual Orientation	Transflective Color TFT touchscreen	Transflective Color TFT touchscreen	Transflective Color TFT touchscreen	Transflective Color TFT touchscreen
Display Size (in.)	2″x 3.5″	2″x 3.5″	2″x 3.5″	2.5 x 1.5	2.5 x 1.5	2.5 x 1.5	2.5 x 1.5
Battery	Rechargeable lithium-ion or 3AA	Rechargeable lithium-ion or 3AA	Rechargeable lithium-ion or 3AA	2AA or NiMH	2AA or NiMH	2AA or NiMH	2AA or NiMH
Battery Life (Hours)	<22	<22	<22	16	16	16	16
GPS Expandability							
Internal Memory	3.0 GB	3.0 GB	3.5 GB	1.5 GB	300 MB	3.5 GB	4 GB
Expandability	Micro SD	Micro SD	Micro SD	Micro SD	Micro SD	Micro SD	Micro SD
USB & Serial	USB/NMEA 0183	USB/NMEA 0183	USB/NMEA 0183	USB	USB	USB	USB
Waypoints	2000	2000	2000	4000	4000	4000	4000
Tracklog Points	10,000	10,000	10,000	10,000	10,000	10,000	10,000
Routes/Legs	200	200	200	200	200	200	200
GPS Maps/Storage							
Basemap	Worldwide	Worldwide	Worldwide, Topo 100K	Worldwide with DEM data	Worldwide with DEM data	Worldwide with DEM data	Worldwide with DEM data
Map Storage	Micro SD	Micro SD	Micro SD	Micro SD	Micro SD	Micro SD	Micro SD
Topographic Maps (Not included)	Mapsource Topo	Mapsource Topo	Mapsource Topo	Mapsource Topo	Mapsource Topo	Mapsource Topo	Mapsource Topo
Marine Maps (Not included)	Mapsource BlueChart g2	Mapsource BlueChart g2	Mapsource BlueChart g2	Mapsource BlueChart g2	Mapsource BlueChart g2	Mapsource BlueChart g2	Mapsource BlueChart g2
GPS Features							
Area Calculation	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Electronic Compass	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Barometer/Altimeter	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Calendar	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Audible Alarms	Anchor, Arrival, Clock, Offcourse	Anchor, Arrival, Clock, Offcourse	Anchor, Arrival, Clock, Offcourse	Proximity waypoint, anchor drag, off-course; alarm clock	Proximity waypoint, anchor drag, off-course; alarm clock	Proximity waypoint, anchor drag, off-course; alarm clock	Proximity waypoint, anchor drag, off-course; alarm clock
Elevation/Vertical Speed	No	No	No	Yes	Yes	Yes	Yes
Tidal information	Yes	yes w/BlueChart	yes w/BlueChart	Yes	Yes	Yes	Yes
Camera	No	Yes	Yes	No	No	Yes	Yes
Picture Viewer	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Photo Navigation	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Unit-to-Unit Transfer	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Celestial Information	Yes	Yes	Yes	Yes	Yes	Yes	Yes

GPS for Dummies

8025

By Joel McNamara. John Wiley and Sons, Inc., 2000-2006. Second Edition. This book explains basic GPS principles and concepts including waypoints, routes, tracks and coordinate systems. Other topics covered include how to do digital mapping on your computer; the scoop on geocaching; recommended features for GPS receivers to be used in various types of activities, choosing features for a GPS receiver; systems for traveling on the main roads and systems for exploring off the beaten path; using GPS with a PDA; computer requirements for different mapping choices; topographic map software; using web-hosted mapping services; and incorporating GPS receivers into outdoor workouts. Paperback. 384 Pages.

GPS for Dummies	1 lb.	**59871**	**$26.95**



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GARMIN

Garmin® GPSMAP 64 GPS Series

4842

WAAS enabled

These rugged handhelds feature a 2.6″ sunlight-readable 65K color screen which supports BirdsEye™ Satellite imagery that lets you download satellite images to your device and integrate them with your maps (subscription required) and Custom Maps. Waterproof, the GPSMAP 64 Series features a quad helix antenna for unparalleled reception and a sleek new design. Other features include a high-sensitivity GPS/GLONASS baseband which allows for obtaining a position approximately 20% faster than GPS alone; BaseCamp mobile application for Smartphone integration which allows transfer of waypoint/routes/tracks/sensor data plus enhancements such as live tracking and weather forecasts; a large quantity waypoint and geocache storage; an advanced elevation plot with zoom capability on any spot; photo navigation; and a microSD card slot. Conveniently download 24K topo maps and hit the trail, or download City Navigator NT® map data for turn-by-turn routing on roads. With a simple connection to your computer and to the Internet, you can get a detailed analysis of your activities and send tracks to your outdoor device using Garmin Connect™. This one-stop site offers an activity table and allows you to view your activities on a map using Google™ Earth.

Garmin® GPSMAP 64 GPS

The GPSMAP 64 comes with a built-in worldwide basemap with shaded relief, so you can navigate anywhere with ease.

Garmin® GPSMAP 64 GPS, Includes GPSMAP 64, USB cable, lanyard, and manual.	15 oz.	**39137**	**$249.99**

Garmin GPSMAP 64s GPS

The Garmin GPSMAP 64s has a built-in worldwide basemap with shaded relief; a 3-axis compass and barometric altimeter; 4GB of internal memory; an MCX Port for external GPS antenna; and it supports increased wireless connectivity with sensors (ANT), iOS smartphones (BLE), and Garmin devices for large file transfers (BT 4.0).

Garmin GPSMAP 64s GPS, Includes GPSMAP 64s, worldwide basemap, USB cable, carabiner clip, and manual.	1 lb.	**39138**	**$299.99**
Garmin GPSMAP 64s GPS with Topo 24K Bundle, Includes GPSMAP 64s, USB cable, carrying case, carabiner clip, 1 year subscription to BirdsEye, manuals, plus a TOPO 24K regional map download.	1 lb.	**39140**	**$349.99**

Garmin GPSMAP 64st GPS

The Garmin GPSMAP 64st comes pre-loaded with US TOPO 100K maps and has a a 3-axis compass and barometric altimeter; 8GB of internal memory; an MCX Port for external GPS antenna; and it supports increased wireless connectivity with sensors (ANT), iOS smartphones (BLE), and Garmin devices for large file transfers (BT 4.0).

Garmin GPSMAP 64st GPS, Includes GPSMAP 64st pre-loaded with US TOPO 100K maps, USB cable, carabiner clip, and manual.	14 oz.	**39139**	**$349.99**

Make	Garmin	Garmin	Garmin	Garmin
Model	**GPSMAP 64**	**GPSMAP 64s**	**GPSMAP 64s**	**GPSMAP 64st**
SN	**39137**	**39138**	**39140**	**39139**
$	**$249.99**	**$299.99**	**$349.99**	**$349.99**
GPS Specifications				
Receiver Channels	12	12	12	12
GPS Antenna	High Sensitivity Quad Helix	High Sensitivity Quad Helix	High Sensitivity Quad Helix	High Sensitivity Quad Helix
WAAS Capable	Yes	Yes	Yes	Yes
Acquisition Time	0:15 - 0:45	0:15 - 0:45	0:15 - 0:45	0:15 - 0:45
Accuracy	<15m	<15m	<15m	<15m
DGPS	<3m	<3m	<3m	<3m
Waterproof Standard	IPX7	IPX7	IPX7	IPX7
Unit Size (HWD)	2.4 x 6.3 x 1.4	2.4 x 6.3 x 1.4	2.4 x 6.3 x 1.4	2.4 x 6.3 x 1.4
Unit Weight	9.2 oz.	9.2 oz.	9.2 oz.	9.2 oz.
Display Type	Transflective, 65K color TFT	Transflective, 65K color TFT	Transflective, 65K color TFT	Transflective, 65K color TFT
Display Size (in.)	1.6 x 2.2	1.6 x 2.2	1.6 x 2.2	1.6 x 2.2
Battery	2AA or NiMH	2AA or NiMH	2AA or NiMH	2AA or NiMH
Battery Life (Hours)	20	20	20	20
GPS Expandability				
Internal Memory	4GB	4GB	4GB	8GB
Expandability	Micro SD	Micro SD	Micro SD	Micro SD
USB & Serial	USB and NMEA 0183	USB and NMEA 0183	USB and NMEA 0183	USB and NMEA 0183
Waypoints	2000	2000	2000	2000
Tracklog Points	10000	10000	10000	10000
Routes/Legs	200	200	200	200
GPS Maps/Storage				
Basemap	Worldwide	Worldwide	Worldwide	Worldwide
Map Storage	Internal	Internal	Internal	Internal
Topo Maps (not included)	Mapsource	Mapsource	Mapsource	Mapsource
Marine Maps (not included)	Mapsource Bluechart g2	Mapsource Bluechart g2	Mapsource Bluechart g2	Mapsource Bluechart g2
GPS Features				
Area Calculation	Yes	Yes	Yes	Yes
Electronic Compass	No	Yes	Yes	Yes
Barometer/Altimeter	No	Yes	Yes	Yes
Calendar	Yes	Yes	Yes	Yes
Audible Alarms	Anchor, arrival, clock, off course	Anchor, arrival, clock, off course	Anchor, arrival, clock, off course	Anchor, arrival, clock, off course
Elevation/Vertical Speed	No	No	No	No
Celestial Information	Yes	Yes	Yes	Yes

Accessories	64	64s	64st	Weight	
Replacement USB Cable	**39051**	**39051**	**39051**	3 oz.	**$14.95**
12V Adapter	**33921**	**33921**	**33921**	6 oz.	**$22.95**
AA cell, pack of 4	**02352**	**02352**	**02352**	7 oz.	**$3.25**
External Vehicle Antenna	**39271**	**39271**	**39271**	5 oz.	**$28.95**
Garmin Carrying Case	**39234**	**39234**	**39234**	4 oz.	**$12.50**
GPS Memory Cards					
▲ 2 GB Micro SD Card	**02512**	**02512**	**02512**	3 oz.	**$12.95**

▲ **Note:** Non-returnable if opened or seal is broken.
RAM needs two components to make a complete unit. Order RAM cradle and base separately.

The Ultimate GPS Case™

6484

Space to carry along additional items such as batteries, a cigarette lighter adapter, or a compass. 600 denier waterproof polyester with padded Velcro® pouch, front zipper pocket, and two side mesh pockets.

Ultimate GPS Case

Features a built-in rain hood.

The Ultimate GPS Case	9 oz.	**39120**	**$14.95**

MicroPak Ultimate GPS Case

Ideal for smaller GPS models.

MicroPak Ultimate GPS Case	7 oz.	**39249**	**$12.95**

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GARMIN

Garmin® Rino 650

2082

WAAS enabled

Powerful 2-Way Communications Integrated with WAAS-Enabled Navigation!

Combine the navigational capabilities of a full-featured, WAAS-enabled, 12-channel parallel GPS receiver with the reliable communication power of a 22-channel FRS/GMRS radio and you get the Garmin Rino! This unique combination allows for peer-to-peer position reporting using the FRS spectrum to transmit your exact location to another Rino within a 2-mile radius. Two-way radio transmits on FRS channels (1-14) for a range of up to 2 miles, and on GMRS channels (15-22) for a range of up to 20 miles depending on model (see specs) with 38 sub-audible squelch codes for semi-private conversation. Each model has a trip computer with speed tracking, sunrise/sunset read out, trip timer and trip distance. Each includes a lanyard, belt clip, user's manual and quick-start guide.

The Rino 650 combines a 5-Watt FRS/GMRS radio with a 2.6″ glove-friendly color touchscreen GPS plus a barometer altimeter, 3-axis compass and NOAA weather radio. It also features a Micro SD card slot for loading TOPO U.S. 24K maps or BlueChart® g2 preloaded cards.

Rino 650	2 lbs.	**33907**	**$499.95**

Make	Garmin
Model	**Rino 650**
SN	**33907**
$	**$499.95**
GPS Specifications	
Receiver Channels	12
GPS Antenna	Quad Helix
WAAS Capable	Yes
Acquisition Time	0:15 - 0:45
Accuracy	<15m
DGPS	<3m
Waterproof Standard	IPX7
Unit Size (HWD)	7.5 x 2.4 x 1.8
Unit Weight	11.3 oz.
Display Type	Transflective 65-K Color TFT
Display Size (in.)	1.43 x 2.15
Battery	Rechargeable Li-Ion
Battery Life (Hours)	14
GPS Expandability	
Internal Memory	1.7 GB
Expandability	Micro SD
USB & Serial	USB
Waypoints	2000
Tracklog Points	10,000
Routes/Legs	200
GPS Maps/Storage	
Basemap	Worldwide with Shaded Relief
Map Storage	Expandable
Topographic Maps (not included)	Mapsource Topo
Marine Maps (not included)	Mapsource Bluechart g2
GPS Features	
Area Calculation	Yes
Hunt/Fish Calculator	Yes
Electronic Compass	Yes
Barometer/Altimeter	Yes
Calendar	Yes
Audible Alarms	Proximity
Elevation/Vertical Speed	Yes
Camera	No
Celestial Information	Yes

Bushnell

Bushnell® BackTrack™ G2 GPS

7247

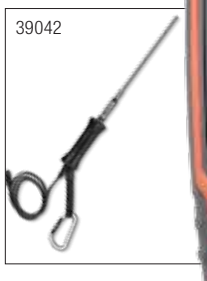
Offering a streamlined, ergonomic design, this next generation BackTrack utilizes a high sensitivity GPS receiver, operates using only two buttons, and stores up to three locations. Simply mark your location with the push of a button. At the end of the day, select your desired location, and the BackTrack will display direction and distance to travel. A self-calibrating digital compass provides an accurate heading while standing still. The backlit grayscale LCD allows for easy viewing even in low light conditions. Features auto shutoff. **Power:** 2 AAA batteries (not included). **Dimensions:** .75″ x 2.5″ x 3.25″.

Bushnell BackTrack G2 GPS	5 oz.	**39319**	**$68.95**
AAA cell Alkaline Batteries, pack of 4	2 oz.	**02362**	**$3.25**

Rino Accessories	Rino 650	Weight	
USB Cable	**38892**	4 oz.	**$14.95**
12V Adapter	**33924**	4 oz.	**$36.95**
AA cell, pack of 4	**02352**	7 oz.	**$3.25**
AA Battery Pack	**33928**	4 oz.	**$29.95**
RAM GPS Cradle	**39312**	13 oz.	**$11.50**
2.5″Dia. Screw-In Mount	**39135**	6 oz.	**$17.46**
1″Ball, Suction Cup Mount	**39189**	4 oz.	**$30.49**
RAM 1.25″U-Bolt Mount	**39206**	5 oz.	**$28.55**
RAM 2.5″U-Bolt Mount	**39136**	8 oz.	**$34.00**
Garmin Carrying Case	**39234**	4 oz.	**$12.50**
GPS Memory Cards			
▲ 2 GB Micro SD Card	**02512**	3 oz.	**$12.95**

▲ **Note:** Non-returnable if opened or if seal is broken.
RAM needs two components to make a complete unit. Order RAM cradle and base separately.

39113



39042

GARMIN

New! Garmin® Astro® 320 Tracking Unit

7408

This high-sensitivity dog tracking system pinpoints your dog's position and shows you exactly where he is, even when you can't see or hear him. The system features the handheld Astro GPS device with a bright, 2.6″ TFT color display and the rugged T 5 collar with a top-mounted GPS/GLONASS transmitter that provides excellent signal reception. The Collar Lock feature creates a 4-digit PIN number that helps prevent others from seeing your dog's whereabouts. As often as every 5 seconds, your dog's T 5 transmits his position to your Astro handheld. You can see the dog's current location and a trail of where he's been on the Map page of your handheld device. The Dog Tracker page allows you to view a compass pointing to your dog's location as well as his current status: whether he's running, sitting, on point, or treeing quarry. With the Astro, you can track up to 10 collars at one time at a range of up to 9 miles. Once you've captured your quarry, mark the exact spot with Astro's Covey Counter™, a special waypoint that includes the precise location, time of day, and elevation where you found your prey, as well as the number of birds you flushed and took from that location. Other waypoints such as "Truck" and "Lodge" can be saved quickly and easily for each hunt. Astro also features special waypoint icons to represent food plots, tree stands, and other hunting-related points. The Astro 320 comes complete with a T 5 wireless transmitter with a rechargeable Li-ion battery, a 1″ collar strap, a belt clip, 5″ standard and 13″ extended-range antennas for Astro, 18.5″ standard and 22.5″ extended-range antennas for T 5, a charge clip, an AC adapter, a vehicle charging adapter, a USB cable, and a manual.

Display Type: 2.6″ transflective 65K-color TFT. **Display Resolution:** 160 x 240 pixels. **High-Sensitivity Receiver:** Yes. Waypoints: 2,000. **Accepts Data** Cards: microSD™ card **(not included). Waterproof:** Yes **(IPX7). Calendar: Yes. Interface:** USB. Battery: 2 AA batteries **(not included)**, NiMH or **Lithium recommended. Battery Life:** Up **to 20 hours.** Unit **Dimensions:** 2.4″W x 6.3″H x 1.4″D. **Display Size:** 1.43″W x 2.15″H. Weight: 9.2 oz.

Astro 320/T 5 Dog Tracking Bundle	Ⓡ	3 lbs.	**39112**	**$599.99**
T 5 Transmitter Collar	Ⓡ	3 lbs.	**39113**	**$249.99**
Long Range Antenna	Ⓡ	12 oz.	**39042**	**$64.25**

Ⓡ Cannot be sold in Canada

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Garmin® eTrex 10, 20, and 30 GPS

7765

WAAS enabled

The redesigned Garmin eTrex series retain the core functionality such as rugged construction and long battery life that made the eTrex famous, while adding capabilities normally found in premium handhelds. Environmentally friendly, eTrex allows you to quickly download cache information directly to the device with ample storage for information such as location, terrain, difficulty, hints and description.

Garmin® eTrex 10

This eTrex 10 is a basic GPS featuring a 2.2″ monochrome display, and includes a worldwide basemap. Includes USB cable and Quickstart guide.

eTrex 10	12 oz.	**39470**	**$109.95**

Garmin® eTrex 20

Featuring a 2.2″ 65k color sunlight readable display, the eTrex 20 includes a shaded relief worldwide basemap, internal memory, and a microSD card slot. Includes USB cable and Quickstart guide.

eTrex 20	12 oz.	**39471**	**$199.95**

Garmin® eTrex 30

Featuring a 2.2″ 65k color sunlight readable display, the eTrex 30 includes a shaded relief worldwide basemap, internal memory, and a microSD card slot.The eTrex 30 also features a 3-axis electronic compass that indicates your heading, even if the unit is not held flat. A barometric altimeter provides precise elevation readings, and wireless unit-to-unit communication allows sharing of waypoints, tracks, routes and geocaches. Includes USB cable and Quickstart guide.

eTrex 30	12 oz.	**39472**	**$299.95**

Garmin® GPS 72H Handheld Track Plotter

2351

WAAS enabled

The Garmin GPS 72H is a rugged, waterproof handheld navigator with a high sensitivity receiver, WAAS/EGNOS capability, and a USB interface. Features include a large grayscale screen, a dedicated GOTO button, backlit display and keypad, automatic track log, trip computer, course and speed filtering, and 1 mb of internal memory for storing points of interest data. A wrist strap, owner's manual, and quick reference guide are included.

Garmin GPS 72H	13 oz.	**39194**	**$149.99**

Make	Garmin	Garmin	Garmin	Garmin
Model	**eTrex 10**	**eTrex 20**	**eTrex 30**	**GPS 72H**
SN	**39470**	**39471**	**39472**	**39194**
$	**$109.95**	**$199.95**	**$299.95**	**$149.99**
GPS Specifications				
Receiver Channels	12	12	12	12
GPS Antenna	High Sensitivity Quad Helix	High Sensitivity Quad Helix	High Sensitivity Quad Helix	High Sensitivity
WAAS Capable	Yes	Yes	Yes	Yes
Acquisition Time	0:15 - 0:45	0:15 - 0:45	0:15 - 0:45	0:15 - 0:45
Accuracy	<15m	<15m	<15m	<15m
DGPS	<3m	<3m	<3m	<3m
Waterproof Standard	IPX7	IPX7	IPX7	—
Unit Size (HWD)	2.1 x 3.9 x 1.3	2.1 x 4.0 x 1.3	2.1 x 3.9 x 1.3	6.2 x 2.7 x 1.2
Unit Weight (with batteries)	5 oz.	5 oz.	5 oz.	7.7 oz.
Display Type	4-Level Gray	65K color TFT	65K color TFT	backlit, 4-level grayscale LCD
Display Size (pixels)	128 x 160 (2.2″)	176 x 220 (2.2″)	176 x 220 (2.2″)	—
Battery	2 AA	2 AA	2 AA	2AA
Battery Life (Hours)	20	20	20	18
GPS Expandability				
Internal Memory	N/A	1.7 GB	1.7 GB	—
Expandability	—	Micro SD	Micro SD	—
Interface	Full-speed USB	Full-speed USB	Full-speed USB	USB and NMEA 0183
Waypoints	2000	2000	2000	500
Tracklog Points	10000	10000	10000	2,048
Routes/Legs	200	200	200	50/
GPS Maps/Storage				
Paperless Geocaches	—	5000	5000	—
Basemap	Worldwide	Worldwide with shaded relief	Worldwide with shaded relief	—
Map Storage	Internal	Internal	Internal	—
Topo Maps (not included)	Mapsource	Mapsource	Mapsource	—
Marine Maps (not included)	—	Mapsource Bluechart	Mapsource Bluechart	—
GPS Features				
Area Calculation	Yes	Yes	Yes	Yes
Electronic Compass	No	No	Yes	No
Barometer/Altimeter	No	No	Yes	No
Calendar	Yes	Yes	Yes	Yes
Wireless Communication	No	No	Yes	—
Beeper	No	Yes	Yes	—
Audible Alarms	No	Yes	Yes	Yes
Elevation/Vertical Speed	No	No	Yes	—
Celestial Information	Yes	Yes	Yes	Yes

Accessories	eTrex 10	eTrex 20	eTrex 30	GPS 72H	Weight	
▲ Training DVD	**37967**	**37967**	**37967**	—	4 oz.	**$20.95**
Replacement USB Cable	**39051**	**39051**	**39051**	**38892**	4 oz.	**$14.95**
PC Interface Cable	—	—	—	**39043**	6 oz.	**$35.95**
PC Cable w/12V Adapter	—	—	—	**39111**	8 oz.	**$45.00**
12V Adapter	**33921**	**33921**	**33921**	**37920**	6 oz.	**$22.95**
AA cell, pack of 4	**02352**	**02352**	**02352**	**02352**	7 oz.	**$3.25**
RAM GPS Cradle	—	—	—	**39207**	11 oz.	**$11.69**
	39132	**39132**	**39132**	—	12 oz.	**$10.07**
2.5″Dia. Screw-In Mount	**39135**	**39135**	**39135**	**39135**	6 oz.	**$17.46**
1″Ball, Suction Cup Mount	**39189**	**39189**	**39189**	**39189**	4 oz.	**$30.49**
RAM 2.5″U-Bolt Mount	**39136**	**39136**	**39136**	**39136**	8 oz.	**$34.00**
RAM 1.25″U-Bolt Mount	**39206**	**39206**	**39206**	**39206**	5 oz.	**$28.55**
Garmin Carrying Case	**39234**	**39234**	**39234**	**39234**	4 oz.	**$12.50**
GPS Memory Cards						
▲ 2 GB Micro SD Card	—	**02512**	**02512**	—	3 oz.	**$12.95**

▲ **Note:** Non-returnable if opened or seal is broken.
RAM needs two components to make a complete unit. Order RAM cradle and base separately.

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GARMIN

Garmin® GPSMAP® 78 Series

7431

WAAS enabled

Ideal for use around water, the GPSMAP 78 Series is IPX7 waterproof and even floats! With the high-sensitivity, WAAS-enabled GPS receiver and HotFix™ satellite prediction, GPSMAP 78 Series locates your position quickly and precisely and maintains its GPS location even in heavy cover and deep canyons. Adding more maps is easy with the microSD card slot which is located inside the waterproof battery compartment, so you don't have to worry about getting it wet. In addition, the GPSMAP 78 Series supports geocaching GPX files for downloading geocaches and details straight to your unit. They store and display key information, including location, terrain, difficulty, hints and descriptions, which means no more manually entering coordinates and paper print outs! Simply upload the GPX file to your unit and start hunting for caches.

GPSMAP 78	13 oz.	**39097**	**$249.99**

Garmin® GPSMAP® 78s

The Garmin GPSMAP® 78S has a built-in 3-axis tilt-compensated electronic compass and a barometric altimeter. Plus, you can share your waypoints, tracks, routes and geocaches wirelessly with other compatible device users. Includes wrist strap, USB cable, and Quickstart guide.

GPSMAP 78S	13 oz.	**39098**	**$349.99**

Garmin® GPSMAP® 78sc

The Garmin GPSMAP® 78SC has all the features of the GPSMAP 78s plus it comes with built-in BlueChart g2 coastal charts and a worldwide basemap with imagery. Map detail includes shorelines, depth contours, navaids, harbors, marinas and more for the US and Bahamas. Includes wrist strap, USB cable, and manual.

GPSMAP 78SC	12 oz.	**39099**	**$449.99**

Humminbird 999ci HD SI GPS/Sonar Combo

8705

Built around an 8″ color TFT display with 480V x 800H resolution, the 999ci HD SI uses Humminbird's exclusive High-Definition Side Imaging Sonar to view amazingly clear, picture-like images of fish, the bottom and structure. It's the ultimate structure-finding tool, and with its massive coverage (480 feet from side to side!) you can scan in mere minutes what used to take hours. With the ultra-wide display, you can easily view Side Imaging and the built-in, down-looking DualBeam Plus sonar or other screens simultaneously. Record and playback sonar readings, and even make sensitivity and other adjustments to the recording. Also comes with a 16-channel GPS/WAAS receiver.

Display: 8″ Diagonal 480V x 800H 16:9 Color TFT. **Memory – Waypoints:** 3,000. **Routes:** 50. **Tracks:** 50 w/20,000 points each. **Sonar – DualBeam PLUS:** 200 kHz / 20˚ @ -10db; 83 kHz / 60˚ @ -10db. **Depth:** 1500 ft. **HD Side Imaging:** 455 kHz / (2) 86˚ @ -10db; 800 kHz / (2) 55˚ @ -10db. **Depth:** 150 ft. 180˚ total coverage. **Power Output:** 1000 Watts (RMS); 8000 Watts (Peak-to-Peak). **GPS Features:** 16 Channel GPS with Trackplotting, Chartplotting, GPS Speed, and Humminbird UniMap. **Power:** 12V DC.

Humminbird 999ci HD SI GPS/Sonar Combo	10 lbs.	**90305**	**$1499.99**

Make	Garmin	Garmin	Garmin
Model	**GPSMAP 78**	**GPSMAP 78S**	**GPSMAP 78SC**
SN	**39097**	**39098**	**39099**
$	**$249.99**	**$349.99**	**$449.99**
GPS Specifications			
Receiver Channels	12	12	12
GPS Antenna	High Sensitivity	High Sensitivity	High Sensitivity
WAAS Capable	Yes	Yes	Yes
Acquisition Time	0:01 - 0:36	0:01 - 0:36	0:01 - 0:36
Accuracy	±10m	±10m	±10m
DGPS	3-5m	3-5m	3-5m
Waterproof Standard	IPX7	IPX7	IPX7
Unit Size (HWD)	2.6″ x 6″ x 1.2″	2.6″ x 6″ x 1.2″	2.6″ x 6″ x 1.2″
Unit Weight (with batteries)	7.7 oz.	7.7 oz.	7.7 oz.
Display Type	Transflective, 65K color TFT	Transflective, 65K color TFT	Transflective, 65K color TFT
Display Size (pixels)	1.6″ x 2.2″	1.6″ x 2.2″	1.43″ x 2.15″, 2.6″ Diag.
Battery	2 AA	2 AA	2 AA
Battery Life (Hours)	20	20	20
GPS Expandability			
Internal Memory	1.7 GB	1.7 GB	1.7 GB
Expandability	Micro SD	Micro SD	Micro SD
Interface	USB and NMEA 0183	High Speed USB and NMEA 0183	High Speed USB and NMEA 0183
Waypoints	2000	2000	2000
Tracklog Points	10000	10000	10000
Routes/Legs	200	200	200
GPS Maps/Storage			
Paperless Geocaches	—	5000	5000
Basemap	Worldwide	Worldwide	Worldwide
Map Storage	Expandable	Expandable	Expandable
Topo Maps (not included)	Mapsource	Mapsource	Mapsource
Marine Maps (not included)	Mapsource BlueChart g2	Mapsource Bluechart g2	Mapsource BlueChart g2
GPS Features			
Area Calculation	Yes	Yes	Yes
Electronic Compass	No	Yes	Yes
Barometer/Altimeter	No	Yes	Yes
Calendar	Yes	Yes	Yes
Wireless Communication	Yes	No	Yes
Camera	No	No	No
Audible Alarms	Anchor, Arrival, Clock, Offcourse	Anchor, Arrival, Clock, Offcourse	Anchor, Arrival, Clock, Offcourse
Elevation/Vertical Speed	No	Yes	Yes
Celestial Information	Yes	Yes	Yes
Tidal Information	Yes	Yes	Yes

GPS Accessories	GPSMAP 78	GPSMAP 78S	GPSMAP 78SC	Weight	
USB Cable	**39100**	**39100**	**39100**	3 oz.	**$14.95**
PC Interface Cable	**39043**	**39043**	**39043**	6 oz.	**$35.95**
12V DC Adapter	**37920**	**37920**	**37920**	4 oz.	**$22.95**
AA cell, pack of 4	**02352**	**02352**	**02352**	7 oz.	**$3.25**
External Vehicle Antenna	**39271**	**39271**	**39271**	5 oz.	**$28.95**
RAM GPS Cradle	**39393**	**39393**	**39393**	12 oz.	**$11.18**
2.5″Dia. Screw-In Mount	**39135**	**39135**	**39135**	6 oz.	**$17.46**
1″Ball, Suction Cup Mount	**39189**	**39189**	**39189**	4 oz.	**$30.49**
RAM 1.25″ U-Bolt Mount	**39206**	**39206**	**39206**	5 oz.	**$28.55**
RAM 2.5″ U-Bolt Mount	**39136**	**39136**	**39136**	8 oz.	**$34.00**
GPS Memory Cards					
▲ 2 GB Micro SD Card	**02512**	**02512**	**02512**	3 oz.	**$12.95**

▲ **Note:** Non-returnable if opened or seal is broken.
RAM needs two components to make a complete unit. Order RAM cradle and base separately.

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GARMIN

Garmin® TOPO U.S. 100K on microSD™

4584

Get detailed topographic coverage of the entire United States and Puerto Rico on a single data card! This microSD card contains interactive views of topographic maps and includes descriptive details such as terrain contours, topo elevations, summits, parks, coastlines, rivers, lakes, and geographical points. Simply plug the card into a compatible GPS receiver. Compatible Garmin® GPS receivers are: Oregon Series, Dakota 20, eTrex x-Series, Rino x-Series, GPSMAP 62, GPSMAP 62s, GPSMAP 62st, GPSMAP 78, GPSMAP 78s, and nüvi 500 Series. SD card adapter included.

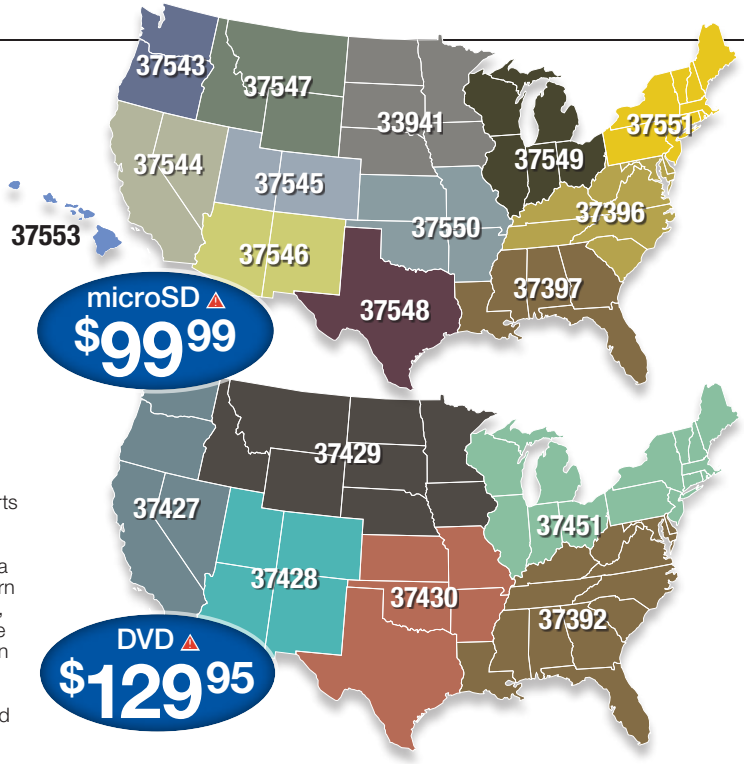
Garmin TOPO U.S. 100K on microSD 1 oz.		**37424**	**$99.99**

GARMIN

Garmin® 24K TOPO Maps

8729

Provide up-to-date detailed 24K topographic coverage. Built-in DEM (digital elevation model) data supports terrain shading and route elevation profiles in compatible units. With routable roads and trails, getting to a destination is simple with turn-by-turn directions on compatible units. Plus, search for points of interest by name or proximity to your location. Contain diverse contours and the highest level of topographic detail available. Compatible with all Garmin handheld mapping units.



91223

91157

Aquapac® Waterproof Electronics Cases

8495

Made from a thin malleable material which allows you to operate your electronic device as normal through the case without sound being affected. Guaranteed submersible to 15ft/5m plus it keeps out the dust and sand, too. Floats safely if dropped in water. Supplied with a neckcord and a carabiner. PVC free.

Small - 6″L x 8″ Circumference For use with GPS units and Smartphones. 3 oz.		**91223**	**$30.00**
Medium - 7.9″L x 10.5″ Circumference For use with small data collectors, small gaming devices, and e-readers such as the Kindle. 4 oz.		**91121**	**$32.00**
Large - 11.5″L x 17.3″ Circumference For use with iPad, phones, cameras, documents, etc. 8 oz.		**91157**	**$45.00**

GARMIN

Garmin® MapSource™ Software

6462

Optional software DVD titles feature geographic data which can be viewed on any computer and allow you to upload or download maps or waypoints into compatible Garmin GPS units. Compatible with expandable memory Garmin units. These DVDs may be used with Garmin units that cannot accept pre-loaded map updates to download stored waypoints.

MapSource® City Navigator North America NT DVD

Download fully routable detailed maps to your compatible Garmin GPS. Updated road details throughout the U.S., Canada and Puerto Rico including metropolitan and rural areas. Includes detailed maps containing highways, interstates, business and residential roads with attributes such as turn restrictions, roundabout guidance, speed categories, and other navigation features. Trip and waypoint management features let you transfer waypoints, routes and tracks between your Garmin GPS and your computer. PC and Mac compatible.

City Navigator North America NT DVD for PC and Mac*	▲	4 oz.	**38093**	**$99.99**

*This item is in DVD format. The user's computer must have a DVD drive in order for this item to work.

TOPO U.S. 100K DVD

Digital topographic maps with terrain and contour information for the entire United States and Puerto Rico. Maps can only be downloaded to one compatible unit per each copy of software. If you wish to download maps to additional units, a copy of the software must be purchased for each unit. PC and Mac compatible. Requires PC Interface Cable, sold separately.

TOPO U.S. 100K DVD for PC and MAC	▲	12 oz.	**38909**	**$99.95**

Garmin® GLO™ GPS Device

4620

Combines GPS/GLONASS receivers with Bluetooth® technology so you can enjoy precise position information on your iPad, iPhone or Android device! GLO can receive position information from both the GPS and GLONASS satellite constellations, allowing it to connect to up to 24 more satellites than devices that rely on GPS alone. This allows GLO to lock on to satellites approximately 20 percent faster and remain connected even at high speed. Plus, GLO updates its position information at 10 times per second. Using Bluetooth technology, GLO wirelessly pairs to your mobile device (when in range). Comes with a USB cable and a vehicle power cable for charging.

WAAS: Yes. **Update Rate:** 10 Hz. **Accuracy:** 3m. **Battery Life:** 12 hours. **Unit size:** 0.7″W x 1.65″H x 3.04″D. **Weight:** 2.12 oz.

Garmin® GLO™ GPS Device	10 oz.	**39210**	**$99.00**

▲ **Note:** Non-returnable if opened or seal is broken.

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RAM® GPS Cradles
4019

Secure mounts for your car, boat, ATV and more!

Mount your GPS practically anywhere. Cradles can withstand more than 50 Gs of shock, and the patented rubber ball and socket design protects electronics from damage caused by vibration. Mounts sold separately.

RAM Cradle for Garmin GPS 64 Series	10 oz.	**39388**	**$8.87**
RAM Cradle for Garmin GPS 72H	11 oz.	**39207**	**$11.69**
RAM Cradle for Garmin GPS 78 Series	12 oz.	**39393**	**$11.18**
RAM Cradle for Garmin Rino 610, 650, 655t Series	13 oz.	**39312**	**$11.50**
RAM Cradle for Garmin eTrex Series 10, 20, 30	12 oz.	**39132**	**$10.07**
RAM Cradle for Garmin Montana 600, 650, 650t	13 oz.	**39133**	**$30.70**
RAM Cradle for Garmin Dakota Series	8 oz.	**39404**	**$10.63**
RAM Cradle for Garmin Oregon Series	10 oz.	**39344**	**$8.96**

New! RAM® Universal X-Grip Cradles
4019

The X-Grip™ design expands and contracts making a perfect custom fit for your device. Consists of a double socket arm, universal spring loaded X-Grip™ holder, and a 1″ diameter patented rubber ball and socket system with adjustment points for positioning the X-Grip mount for optimum viewing.

Universal X-Grip Cell Phone Cradle Cradle Dimensions: Minimum width, 1.875″; Maximum width, 3.25″; Depth, 0.875″.	3 oz.	**31204**	**$21.57**
Universal X-Grip IV Large Phone Cradle Cradle Dimensions: Minimum width, 1.75″; Maximum width, 4.5″.	3 oz.	**31226**	**$22.46**
Universal X-Grip II Tablet Cradle for Small 7″ tablets Cradle Dimensions: Minimum width, 2.25″ (Devices 2.25″ in width must be a minimum of 7″H to fit); Maximum width, 5.75″; Depth, 0.875″.	4 oz.	**31227**	**$27.05**
Universal X-Grip III Tablet Cradle for Large 10″ Tablets Cradle Dimensions: Minimum width, 6.25″; Maximum width, 8.1″; Depth, 0.875″; Maximum Length (using additional supports included): 10.25″.	1 lb.	**31228**	**$66.92**

RAM® Mount Bases
4019

New! RAM POD Universal No-Drill Mount with 18″ Rod, Diamond Adapter Base – Connects to the seat rail - no drilling necessary. The 18″ rod can be bent to position device to its optimum viewing location. Features a diamond adapter base consisting of a 1″ diameter rubber ball connected at right angles to a 2.43″ x 1.31″ diamond base. The base has two holes 1.912″ from center to center and will connect to a large variety of RAM Mount and third party cradles.
1 lb. **31263** **$42.91**

New! RAM POD Universal No-Drill Mount with 18″ Rod, Locking Knob & Round Adapter Base – Connects to the seat rail - no drilling necessary. The 18″ rod can be bent to position device to its optimum viewing location. Features a locking knob and round base adapter. The locking knob includes a brass 1/4″-20 thread, allowing you to disengage the screwing of the knob once it is set in the desired position. The 2.5″ diameter round base adapter contains the universal AMPS hole pattern.
2 lbs. **31264** **$58.39**

New! RAM-A-CAN II Universal Cup Holder Mount – Conforms to most vehicle cup holders thanks to flexible support fins. Consists of a double socket arm, two diamond bases and RAM-A-CAN II cup holder base.
6 oz. **31262** **$43.21**

RAM 2.5″ Dia. Screw-In Mount – Use for permanent flat surface installations, plate has 4 holes that match the universal AMPS hole pattern.
6 oz. **39135** **$17.46**

RAM 2.5″ U-Bolt Mount – For bars up to 2.5″ diameter
8 oz. **39136** **$34.00**

RAM 1.25″ U-Bolt Mount – For bars up to 1.25″ diameter
5 oz. **39206** **$28.55**

RAM Suction Cup Mount with 1″ Ball – Use to attach mount to windshields, etc.
4 oz. **39189** **$30.49**

New! RAM® Self Leveling Beverage Cradle
4019

Installs easily and keeps your favorite beverage positioned within reach and level to prevent spills. Perfect for any vehicle. 1″ Rubber ball "B" size. Base sold separately.

With 1″ Ball	7 oz.	**31261**	**$17.54**

Notice to Drivers in California and Minnesota: State law prohibits drivers in California and Minnesota from using suction mounts on their windshields while operating motor vehicles. See California Vehicle Code Section 26708(a); Minnesota Statutes 2005, Section 169.71.

ATV and UTV Accessories page 194

PELICAN™

Pelican™ Micro Cases
8612

Great for rugged, outdoor use, these cases are water resistant, crushproof, and dust proof! Ideal for electronics like cell phones, PDAs, iPods, handheld gaming devices, pagers, etc. The rubber liner provides extra protection and doubles as an o-ring seal (not waterproof). Other features include an easy open latch, an automatic pressure equalization valve (balances interior pressure, keeps water out), stainless steel hardware, and a handy lanyard. Unconditional lifetime guarantee of excellence from the manufacturer.

Pelican™ Micro Case 1010 and 1060

Pelican 1010 Micro Case - Interior Dimensions: 4.37″ x 2.87″ x 1.68″ 7 oz.	**35544**	**$14.75**
	4+	**$13.75**
Pelican 1060 Micro Case - Interior Dimensions: 8.25″ x 4.25″ x 2.25″ 16 oz.	**35545**	**$27.25**
	4+	**$24.95**

Pelican™ Micro Case 1030 and 1040

Micro Case 1030 - Interior Dimensions: 6.37″ x 2.62″ x 2.06″ 10 oz.	**35705**	**$20.95**
Micro Case 1040 - Interior Dimensions: 6.50″ x 3.87″ x 1.75″ 12 oz.	**35706**	**$22.95**

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New! Garmin® Dash Cam™

4954

The Dash Cam features a wide-view HD camera that captures reliable video footage as you drive. To use, simply mount the Dash Cam on your vehicle's windshield, plug the camera into a 12V power outlet, and begin recording. Video is recorded in a continuous loop (with auto-overwrite) on the included 4 GB microSD™ card, and an integrated microphone records sound inside your vehicle. For more memory capacity, use a larger microSD card (up to 32 GB card, sold separately). The Dash Cam records in WVGA, 720p, or HD 1080p, and time and date can be set so that you're able to pinpoint when a video was taken. In the event of a collision or other occurrence (such as sudden braking), the Incident Detection feature automatically saves the current, last, and next recordings to preserve a complete record. You can use the Snapshot function to capture still images, and the Dash Cam can be removed from your vehicle to take exterior snapshots as well. Review video footage on the 2.3″ TFT LCD display or on your computer. Includes vehicle suction cup mount, vehicle charger, 4 GB microSD card, card adapter, and owner's manual.

Dash Cam™ 10

Frame Rate: 30 FPS. **Dimensions:** 3.2″ x 2.6″ x 1.5″. **Weight:** 4.1 oz.

Garmin Dash Cam 10	14 oz.	**37358**	**$219.99**

Dash Cam™ 20, GPS-Enabled

This GPS-enabled model stamps footage with location, direction, and speed to provide detailed information about exactly where and when an incident occurred.

Frame Rate: 30 FPS. **Dimensions:** 3.2″ x 2.6″ x 1.5″. **Weight:** 4.3 oz.

Garmin Dash Cam 20	14 oz.	**37359**	**$249.99**

Note: Some jurisdictions regulate or prohibit the use of this device. It is your responsibility to know and comply with applicable laws and rights to privacy in jurisdictions where you plan to use this device.

37469

37473

Garmin® nüvi® 55 Automotive GPS Receiver

8320

Provides easy-to-follow, spoken turn-by-turn directions with street names. Pre-loaded with detailed maps of the lower 49 states, the nüvi 55 features a bright, 5.0" dual-orientation display, for use horizontally or vertically; lane assist with junction view that displays upcoming junctions and uses brightly colored arrows to indicate your proper lane; a search field that makes it easy to find addresses and millions of points of interest, in a single place; an Up Ahead feature allowing you to find restaurants, gas stations, ATMs, shops, etc., without leaving the map; an audible alert and onscreen warning display whenever you approach a school zone; plus, with Garmin Express, your nüvi is easy to update with maps and software, transfer favorites to and from devices, and install free custom vehicles and voices.

Unit Dimensions, WxHxD: 5.5″ x 3.4″ x 0.8″. **Display Size, WxH:** 4.4″ x 2.5″; 5.0″ Diagonal. **Display Resolution, WxH:** 480 x 272 pixels. **Display Type:** WQVGA color TFT with white backlight. **High-Sensitivity Receiver:** Yes. **Waypoints:** 1,000. **Auto re-route (fast off-route and detour recalculation):** Yes. **Choice of Route Set-Up (faster time, shorter distance, off-road):** No. **Route Avoidance (avoid highways, tolls, etc.):** Yes. **Custom POIs:** Yes. **Accepts Data Cards:** microSD™ Cards (not included). **Voice Prompts:** Yes (Internal Speaker). **Speaks Street Names:** Yes. **3D Map Viewer:** No. **Touchscreen:** Yes. **FM Traffic Compatible:** No. **Weight:** 6.4 oz. **Battery:** Rechargeable Lithium-Ion. **Battery Life:** up to 2 hours.

Garmin nüvi 55	14 oz.	**37469**	**$129.99**
Garmin nüvi 55 LM with Lifetime Maps	14 oz.	**37473**	**$129.99**
USB Cable	4 oz.	**38892**	**$14.95**
Portable Friction Mount	1 lb.	**38099**	**$29.95**

37476

6″ dual-orientation

Garmin Nuvi 65 LM Automotive GPS Receiver

8320

with Free Lifetime Map Updates

The nüvi 65LM features a bright, 6″ dual-orientation display that can be used either vertically or horizontally. It provides easy-to-follow, spoken turn-by-turn directions with street names; comes pre-loaded with detailed maps of the lower 49 states; lane assist with junction view; a search field that makes it easy to find addresses and millions of points of interest, in a single place; an Up Ahead feature that let you find places without leaving the map; an audible alert and onscreen warning when you approach a school zone; and free lifetime map updates. Use Garmin Express to keep your nüvi up-to-date. Garmin Express makes it easy to update maps and software, transfer favorites to and from devices, and install free custom vehicles and voices.

Unit Dimensions, WxHxD: 6.6″ x 3.7″ x 0.8″. **Display Size, WxH:** 5.4″ x 2.8″; 6.1″ Diagonal. **Display Resolution, WxH:** 800 x 480 pixels. **Display Type:** WVGA color TFT with white backlight. **High-Sensitivity Receiver:** Yes. **Waypoints:** 1,000. **Auto re-route (fast off-route and detour recalculation):** Yes. **Choice of Route Set-Up (faster time, shorter distance, off-road):** No. **Route Avoidance (avoid highways, tolls, etc.):** Yes. **Custom POIs:** Yes. **Accepts Data Cards:** microSD™ Cards (not included). **Voice Prompts:** Yes (Internal Speaker). **Speaks Street Names:** Yes. **3D Map Viewer:** No. **Touchscreen:** Yes. **FM Traffic Compatible:** No. **Weight:** 8.6 oz. **Battery:** Rechargeable Lithium-Ion. **Battery Life:** up to 1 hour.

Garmin Nuvi 65 LM with Lifetime Maps	1 lb.	**37476**	**$179.99**
USB Cable	4 oz.	**38892**	**$14.95**
Portable Friction Mount	1 lb.	**38099**	**$29.95**

38099

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GARMIN

1 New! Garmin® fenix™ 2 GPS Watch
2809

Versatile and feature-packed, this multi-activity GPS watch offers comprehensive navigation and tracking functions in addition to real-time fitness training data. Built-in sensors provide information on heading, elevation, and weather changes, plus the fenix 2 is built to endure the toughest outdoor conditions. The fenix 2 records a track log to create a GPS "bread crumb trail" as you move, allows you to mark up to 1,000 waypoints, and stores up to 10,000 track points. Equipped with ABC sensors (altimeter, barometer and compass), the fenix 2 provides relevant real-time information, and it auto-calibrates the sensors using its GPS receiver in addition to automatically setting the time based on location. The Virtual Partner® function lets you set time, distance, or speed goals and then compete against a running/cyclist icon that appears on the screen. The fenix 2 also features a Ski Mode and a Swim Mode for even more training options. The fenix 2 features Bluetooth® connectivity and can automatically upload data wirelessly to Garmin Connect™, LiveTrack, and social media (using Garmin Connect Mobile app on your smartphone). Built to withstand rugged conditions, the fenix 2 features a strong housing that survives shocks, and the mineral glass lens resists scratches. Additional features include a large LCD display with a red LED backlight and a robust polyurethane wristband. The fenix 2 is water rated to 5 ATM (50 meters) and has a battery life of up to 50 hours in GPS mode (depending on settings) and up to 5 weeks in watch mode. Basic watch functions include alarms, tones, vibration alerts, timer, stopwatch, and world clock with the ability to display several time zones at once.

Display Resolution: 70 x 70 pixels. **Built-in Memory:** 20 MB. **Battery:** Rechargeable 500 mAh Lithium-ion. **Water Rating:** 5 ATM (50 meters). **Area Calculation:** Yes. **Unit Dimensions:** 1.9″ x 1.9″ x 0.7″. **Display Size:** 1.2″ diameter. **Weight:** 3.19 oz.

Garmin fenix 2 GPS Watch	12 oz.	**39370**	**$399.99**

1

2 New! Garmin® vívofit™ Fitness Band
4883

The vívofit is the only fitness band that greets you with a personalized daily goal, tracks your progress and reminds you when it's time to move! First, vívofit learns your current activity level, then assigns an attainable daily goal. As you meet your milestones, vívofit will adjust your goal for the next day, gradually nudging you toward a healthier lifestyle. While you might lose track of time and forget to move throughout the day, vívofit knows. A red move bar appears on the display after 1 hour of inactivity and builds when you've been sitting too long. Just walk for a couple of minutes to reset the move bar. Using sleep mode, it will even monitor your rest at night. You can see your total sleep hours as well as periods of movement and restful sleep. The vívofit band is water-resistant, so you can shower or get caught in the rain, worry-free. Plus, with the touch of one button, you can wirelessly sync vívofit with Garmin Connect to see a complete picture of your progress or join online challenges and earn virtual badges for extra motivation. It's so simple to get started. After you are set up, access the free online community from your computer or on your compatible mobile device with the Garmin Connect™ Mobile app. Each vívofit comes with a large and a small band, a USB ANT stick, and documentation.

Unit Dimensions: 21 mm wide x 10.5 mm thick (length varies based on band size (small and large included). **Band sizes:** Small, 4.7″-6.9″; Large, 6.0″-8.3″. **Display size (WxH):** 25.5 mm x 10 mm. **Weight:** 25.5 g. **Battery:** Two replaceable CR1632 coin cells. **Battery life:** More than 1 year. **Water resistant:** yes (up to 50 m). **History:** Stores up to 3 weeks of 24/7 activity data on device between syncs. **Heart rate monitor compatible:** yes (not included). **Wireless sync:** yes (USB ANT™ Stick or Bluetooth® Smart technology). **Customizable screen(s):** yes. **On-device data fields/screens:** Daily step count, goal countdown, distance, calories, time of day, heart rate and heart rate zone (heart rate and heart rate zone available when used with an ANT+ heart rate monitor - not included).

	Black	Blue	Purple	Slate	Teal	Weight	Each
Garmin vívofit Fitness Band	**38105**	**38106**	**38107**	**38108**	**38109**	4 oz.	**$99.99**

2

spot

3 Spot Global Satellite Phone
4781

The SPOT Global Phone allows you to communicate with family, friends, work and emergency services from virtually anywhere in the world. SPOT Global Phone is the ultimate easy to use, lightweight handheld satellite phone, boasting superior voice quality and the fastest data speeds in mobile satellite industry today. Provides 24/7/365 9-1-1 Emergency Response, a 10-digit US based phone number, free long distance to US and Canada, voicemail for when you are not available, plus it can receive 35-character text messages. Calling features include Any Key Answer, standard International dialing ("+" prefix), and 8 user-configurable ring tones. Other features include a compact and lightweight design, a backlit color display optimized for outdoor daytime viewing, a lighted keypad for easy use at night, and a long-life Lithium-ion battery providing 4 hours of talk time, 36 hours standby. **Note:** For best results, make sure your SPOT Global phone has a clear view of the sky. It is not reliable indoors, in a cave or in very dense woods. **Service Plan is required for operation.**

Height: 5.3″. **Width:** 2.2″. **Depth:** 1.5″. **Weight:** 7.1 oz. **Operating Temperature:** -4°F to 140°F (-20°C to 55°C). **Storage Temperature:** -40°F to 185°F (-40 to 85°C). **Battery Type:** Lithium-ion 3.7V, 2600 mAH. **Standby Time:** up to 36 hours. **Talk Time:** 4 hours. **Display:** Backlit color display; 4-line, 12-character LCD. **Indicators:** Volume, signal and battery. **Memory:** 99 entry internal address book; also stores call history - received, missed and dialed calls.

Spot Global Satellite Phone	1 lb.	**39451**	**$499.99**

3

4 SPOT Gen3™ Satellite GPS Messenger
7318

This pocket-sized device helps you stay connected wherever you are! Utilizing the GPS satellite network, SPOT acquires its current coordinates and then sends its location and a pre-programmed message via a commercial satellite network. SPOT's motion-activated tracking sends tracking information only when you are moving, conserving valuable battery power. In addition to Basic Tracking, Unlimited and Extreme Tracking options let you choose the rate at which tracking messages are sent (every 2-1/2, 5, 10, 30, or 60 minutes) for as long as the device is turned on. A Check In feature sends a pre-programmed text message with GPS coordinates or an e-mail (with a link to Google Maps™) to up to ten pre-selected contacts. In emergency situations, the S.O.S. feature provides your GPS coordinates to local response teams. During non-emergency situations, use the Help/SPOT Assist feature to alert your personal contacts that you need assistance. SPOT works around the world, including virtually all of North America, Europe, and Australia; portions of South America, Northern Africa, and Northeastern Asia; and hundreds or thousands of miles offshore of these areas. Includes batteries, strap, USB cable, carabiner, and quick reference guide. An active annual service subscription is required for use.

Operating Temperature: -22°F to 140°F (-30°C to 60°C). **Operating Altitude:** -328 ft. to +21,320 ft. (-100m to +6,500m). **Humidity Rated:** MIL-STD-810F, Method 507.3, 95% to 100% cond. **Vibration Rated:** Per SAE J1455. **Power:** 4 AAA lithium batteries (included), 4 AAA NiMH rechargeable batteries (not included), or 5v USB connection. **Dimensions:** 3.43″ x 2.56″ x 1″. **Weight:** 4.0 oz.

SPOT Gen3 Satellite GPS Messenger	11 oz.	**39474**	**$149.99**

4

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1

1 New! Casio® Twin Sensor Watch with Compass Needle and Thermometer

3950

Featuring both a built-in compass and thermometer, this versatile watch provides information in an easy-to-read analog/digital format. Direction readings are displayed in the digital window, and the watch's second hand functions as a compass needle to indicate magnetic north. Compass features include bidirectional calibration and magnetic declination correction. The watch also provides sunrise/sunset data and moon age data. Other features include world time (48 cities), five daily alarms, a 1/100 second stopwatch, a countdown timer, an hourly time signal, an auto calendar, 12/24 hour format, and button operation tone on/off. The watch is equipped with a resin band, features an LED backlit display, and is water-resistant to 100 meters.

Temperature Display Range: 14°F to 140°F (-10°C to 60°C). **Temperature Display Unit:** 0.2°F (0.1°C). **Battery:** SR927W x 2. **Battery Life:** Approximately 2 years. **Size of Case:** 49.6mm x 46.8mm x 13.6mm.

Casio Twin Sensor Watch with Compass Needle and Thermometer	1 lb.	**37477**	**$84.95**

2

2 New! Casio® Twin Sensor Watch with Digital Compass and Thermometer

3948

In addition to basic timekeeping functions, this watch also offers a digital compass and thermometer. Compass features include a graphic direction pointer, bearing sensor correction, and magnetic declination correction. The watch provides world time (48 cities) and features four daily alarms, a snooze alarm, a 1/100 second stopwatch, a countdown timer, an hourly time signal, an auto calendar, 12/24 hour format, and button operation tone on/off. Direction readings and time are shown in large, easy-to-read figures on the watch's electroluminescent backlit display. Water-resistant to 200 meters, this rugged watch features a resin band and a mineral glass window that protects against scratches.

Temperature Display Range: 14°F to 140°F (-10°C to 60°C). **Temperature Display Unit:** 0.2°F (0.1°C). **Battery:** CR2025. **Battery Life:** Approximately 3 years. **Size of Case:** 51.5mm x 47.6mm x 13.2mm.

Casio Twin Sensor Watch with Digital Compass and Thermometer	1 lb.	**37470**	**$54.95**

3

3 New! Casio® G-Shock Digital Watch

3947

Rugged and reliable, this shock-resistant watch is water-resistant to 200 meters. The watch's internal components are isolated in a module cushioned by shock-absorbent urethane rings to provide outstanding protection from impacts. Watch functions include a daily alarm, a countdown timer, a 1/100 second stopwatch, an hourly time signal, an auto calendar, and 12/24 hour formats. The display features electroluminescent backlighting with afterglow. Black resin band.

Battery: CR2016. **Battery Life:** 2 years. **Size of Case:** 48.5mm x 43.0mm x 14.7mm.

Casio G-Shock Digital Watch	1 lb.	**37468**	**$58.95**

SUUNTO®

4

4 New! Suunto® Ambit3 Peak GPS Watch

2991

The Ambit3 Peak provides GPS capabilities along with advanced outdoor and multi-sport functions. You can wirelessly connect the watch to your iPhone® or iPad® and then use the free Movescount App to customize the watch on the go, share your outdoor experiences instantly via social media, use your phone as a second watch display, see calls and messages on the watch, and even create a Suunto Movie of your adventures with a 3D map, key metrics, and images! This advanced watch offers route navigation, GPS track recording, and integrated GPS speed and distance. The Ambit3 Peak also features a digital compass, an altimeter, a countdown timer, a stopwatch timer, dual time, and a daily alarm. In addition, the watch provides temperature and sunrise/sunset information. Training functions include activity-based recovery time and modes for running, cycling, and swimming. Water-resistant to 100 meters, the watch features a mineral crystal lens, an LED backlit display, and a rugged elastomer strap. Dimensions: 50mm diameter, 18mm thick case. Color: Black.

Suunto Ambit3 Peak GPS Watch	C	1 lb.	**37248**	**$500.00**

5

5 Suunto® Core Watch

7601

The altimeter features a range up to 9,000m (29,500 ft). The altitude difference measurement allows you to track altitude climbed. Log recorder stores all movements in altitude between the start and stop times. Displays the current sea level pressure as a detailed graph, showing recording of the last 24 hours with an interval of 30 minutes. The storm alarm notifies you of a sudden drop in air pressure. An Automatic Alti/Baro switch changes between altimeter and barometer. When climbing, it records changes in elevation. And when you stop to rest, it records barometric pressure. The digital compass with declination adjustments displays cardinal or half-cardinal point and the North. Can also be set to track a certain bearing. Features a rotating bezel for traditional use (most variants), or a one-touch function to sight lock and follow a bearing. For snorkeling, the Suunto Core depth meter provides information on current depth and the maximum depth reached. Maximum depth of the device is 10m (32.8 ft.). Watch functions include time, dual time, date, alarm, sports chronograph, countdown timer and predicted times for sunrise and sunset for over 400 locations worldwide. **Dimensions:** 50mm diameter, 15mm thick case.

Suunto Core Watch	C	1 lb.	**37230**	**$299.00**

C Combination English and Metric

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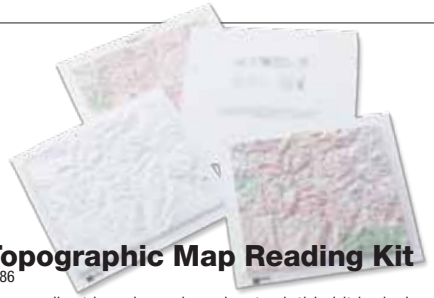
New! Casio® ProTrek Solar-Powered Triple Sensor Watch
3949

Incorporating a Triple Sensor Version 3 Engine, this solar-powered watch is packed with features! The watch provides compass readings with 60 seconds of continuous measurement, displays temperature, measures altitude in 1 meter increments, and features a barometer that utilizes a Barometric Pressure Tendency Alarm to alert you of sudden changes in pressure readings. With the watch's large side buttons and one-press access to all readings, you'll always have important information at your fingertips. Additional features include world time (48 cities + UTC), five daily alarms, a 1/10 second stopwatch, a countdown timer, an hourly time signal, sunrise/sunset data, an auto calendar, 12/24 hour format, and button operation tone on/off. The Super Illuminator backlit LED display offers excellent readability.

Powered by a solar rechargeable battery, the watch features a battery level indicator and a power saving function. Water-resistant to 100 meters, the watch has a rugged resin band.

Altimeter Range: -2,300 ft. to 32,800 ft. (-700m to 10,000m). **Altimeter Measuring Unit:** 5 ft. (1m). **Barometer Range:** 7.65 inHg to 32.45 inHg (260 hPa to 1,100 hPa). **Barometer Display Unit:** 0.05 inHg (1 hPa). **Temperature Range:** 14°F to 140°F (-10°C to 60°C). **Temperature Display Unit:** 0.2°F (0.1°C). **Battery:** Solar rechargeable. **Battery Life:** Approximately 9 months on a full charge (without further exposure to light). **Size of Case:** 54.6mm x 52.4mm x 14.4mm.

Casio ProTrek Solar-Powered Triple Sensor Watch	1 lb.	**37471**	**$155.25**



Topographic Map Reading Kit
3686

An excellent hands-on learning tool, this kit includes three map formats on vacuum-formed contour models: a flat topographical map, the same map in raised relief, and an unprinted raised relief map of the same area. A fourth panel features a map legend. The kit also includes a 22-page teacher's guide which features nine activities, vocabulary, and black-line masters. For grades 6 through 12.

Topographic Map Reading Kit	2 lbs.	**36970**	**$37.75**

BRUNTON

Brunton® Nomad G3 Pro Digital Compass/Altimeter
4844

The Nomad G3 Pro combines a digital compass, an altimeter with 1 ft./meter resolution, and a barometer that reads in Hg or mB. The forward bearing compass provides readings in cardinal directions and degrees (with 1° resolution) on the backlit display. Temperature is shown in Celsius or Fahrenheit. The Nomad G3 Pro also features declination adjustment, daily alarms, and time/date display. One CR2032 battery and wrist/neck lanyard included.

Dimensions: 3.5″ x 2.25″ x 0.75″. **Weight:** 2.3 oz.

Brunton Nomad G3 Pro Digital Compass/Altimeter	C	5 oz.	**37509**	**$89.99**

Model 39 Professional Pocket Altimeter/ Barometer
1325

German engineered professional pocket-sized altimeter/barometer features a durable aluminum housing with a clear acrylic, scratch-resistant face. Other features include 16-jeweled, temperature compensated precision movement and aneroid capsule. Includes lanyard and leather case.

Sun® Pocket Altimeter/Barometer
4162

Indicates altitude accurately up to 15,000 feet plus it shows barometric pressure. Features a weather trend indicator which predicts fair or stormy weather. Measures 2.25″ in diameter. A soft-side carrying case is included.

New! Sun® Alti™ Carabiner Altimeter/ Barometer
4162

This altimeter/barometer features a handy aluminum carabiner that clips on anywhere! Indicates altitude and barometric pressure. Also features a weather trend indicator that predicts fair or stormy weather. Black anodized finish.

New! Sun® AltiLINQ™ Dashboard Altimeter/ Barometer
4162

Using the included Velcro® material, this altimeter/barometer mounts easily to the top or front of a dashboard. An extra set of Velcro® attachments is also included, allowing you to move the instrument between vehicles. Measures altitude and barometric pressure. A weather trend indicator predicts fair or stormy weather.

	Model	Dimenions	Altitude Range	Altimeter Graduation	Barometer Range		Weight	SN	$
Model 39	39M	2-1/2″ x 7/8″	6,000m	10m	970 to 1,050hPa	M	7 oz.	**43336**	**$291.95**
Sun	English		0 to 15,000′	100′	17 to 31.5″Hg	E	4 oz.	**43316**	**$64.50**
	Metric		0 to 5,000m	20m	620 to 1,040 hPa	M	4 oz.	**43315**	**$64.50**
	Alti*	2.4″W x 3.7″L x 1.1″D	0 to 15,000′	100′	20 to 31.5″Hg	E	4 oz.	**43321**	**$72.95**
	Alti*	2.4″W x 3.7″L x 1.1″D	0 to 5,000m	20m	620 to 1,040 hPa	M	4 oz.	**43322**	**$72.95**
	AltiLINQ	2.6″W x 2.7″H x 1.2″D	0 to 15,000′	100′	20 to 31.5″Hg	E	4 oz.	**43323**	**$71.95**
	AltiLINQ	2.6″W x 2.7″H x 1.2″D	0 to 5,000m	20m	620 to 1,040 hPa	M	4 oz.	**43324**	**$71.95**

***Note:** Not for load-bearing use.

C Combination English and Metric E English M Metric

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Forestry Suppliers' GPS/GIS F.I.E.L.D. Kit®

4484

Fundamental Investigation of the Environment Leading to Discovery

Your students can explore the world around them and always stay on the right track with this kit! Included in the kit are three Garmin® eTrex 10 GPS receivers (each includes a PC interface cable) and a training DVD. The 12-parallel channel GPS receiver offers easy one-handed operation, is WAAS (Wide Area Augmentation System) capable, and features water-resistant housing. In addition, the kit includes an ESRI® GIS Solutions for Education CD-ROM which features introductory Windows and Macintosh versions of ArcExplorer Java Edition for Education highlighting GIS information and activities. The kit also includes a Going Places With GPS book and a lockable molded plastic carrying case with foam insert that fits all components. Correlated lesson plans are available as a free download from the Forestry Suppliers website.

Forestry Suppliers' GPS/GIS F.I.E.L.D. Kit	8 lbs.	**36843**	**$449.00**
		2+	**$438.00**
		3+	**$429.00**

Educaching™ GPS-Based Curriculum for Teachers

4799

Explore the exciting world of geocaching!

This teacher-led, student-driven curriculum encourages hands-on learning through the use of geocaching lessons! The Educaching teacher's manual includes a background section of basic information about GPS technology, the concept of Educaching, and tips for getting started. Twenty multidisciplinary STEM (Science Technology Engineering Mathematics) lesson plans are grouped according to the level of difficulty (beginner, intermediate, and advanced). The lesson plans align with national teaching standards and meet many Common Core math standards for grades 4 through 8. Student assessment sheets are included for each lesson. Information is also included on creative ways for your students to use Educaching beyond the classroom.

Educaching GPS Curriculum Book – Three-ring binder. 116 Pages. CD with field sheets and teacher templates also included.	2 lbs.	**36915**	**$31.95**
Educaching GPS Curriculum CD – Features the complete Educaching GPS Curriculum Book (including field sheets and teacher templates) in a convenient CD format. ▲	2 oz.	**36916**	**$29.95**

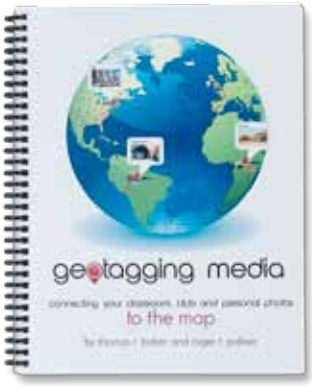
New! Tech-Enabled Field Studies

4859

By Roger T. Palmer and Thomas R. Baker. Carte Diem Press, 2013. An excellent guide to outside or "in the field" research techniques, this book focuses especially on tech-enabled methods, tools, and analysis. Includes information on field study design; field instruments; use of smartphones, Google Docs, and ArcGIS Online; geotagging images; mapping and data analysis in ArcGIS for Desktop; and project ideas. Softcover. 120 Pages.

Tech-Enabled Field Studies	14 oz.	**60074**	**$29.95**

▲ **Note:** Non-returnable if opened or seal is broken.



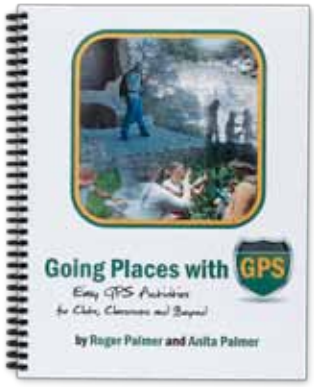
Geotagging Media

2974

Connecting Your Classroom, Club and Personal Photos to the Map

Written by Thomas R. Baker and Roger T. Palmer. Carte Diem Press, 2012. The perfect compliment to your field work, school trip or outdoor curriculum! Learn about the different methods, devices, and software used in geotagging photos, plus curricular ideas and activities are also discussed for use in the classroom. Beyond geotagging photos, there is additional information on: geotagging text, videos and audio; digital globes; and geographic information systems (GIS). Softcover. 65 Pages.

Geotagging Media	9 oz.	**36954**	**$24.95**



Going Places with GPS

7277

By Roger and Anita Palmer. This book is intended to introduce the reader to many fun and exciting uses of GPS both in the classroom as well as out. Some of the helpful chapters include Maneuvering Your GPS, Finding Points, Finding Lines of Latitude and Longitude on the Ground, Games and Activities, Orienteering for GPS, Geocaching, Reading a Topo Map, GPS as a Tool, GPS Data Collection in the Field, GPS Physics Calculations, etc. Softcover.

Going Places with GPS	10 oz.	**60005**	**$25.00**

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Forestry Suppliers' Orienteering F.I.E.L.D. Kit®

6807

Fundamental Investigation of the Environment Leading to Discovery

Everything you need to conduct an orienteering classroom both indoors and outdoors in one convenient kit. Includes 10 Suunto A-10 Partner II compasses, 10 orienteering markers (12″x 10.5″), 25 orienteering control cards, and 10 punches for marking scorecards. For the classroom: a large demonstration compass, one Geography Tutor Video: Volume III - Map Skills, one copy of Explore the World with a Map and Compass: A Handbook for Teachers, one copy of Orienteering and Map Games for Teachers, and 10 Compass and Map Pocket Guides. Correlated lesson plans are available as a free download from the Forestry Suppliers website.

Forestry Suppliers' Orienteering F.I.E.L.D. Kit	9 lbs.	**36850**	**$340.00**
		2+	**$314.00**
		3+	**$294.00**
Map Skills Video	5 oz.	**26852**	**$44.95**
		5+	**$41.50**

26852

BRUNTON

Brunton® Classic Educational Compass Kit

2753

An ideal kit for teaching students how to use a map and compass. This kit includes a map and compass curriculum CD, an "ABC's of Compass and Map" DVD, 12 Brunton Classic compasses, 12 Brunton Classic instruction manuals, instructor's study guide, reproducible student workbook, an educational wall poster, a 6″x 9″ overhead instructor compass, and a soft case.

Brunton Classic Educational Compass Kit	2 lbs.	**36894**	**$184.00**

Silva

Silva® Compass Education Kit

8144

This complete kit includes 24 Silva Polaris® compasses, a Silva® Explorer™ compass for the instructor, a carrying case, a demonstration compass, a "Be Expert With Map & Compass" book, and a "Read This, or Get Lost" booklet which outlines the basic use of a compass alone or with maps using the Silva 1-2-3 System.

Silva Compass Education Kit	9 lbs.	**36895**	**$317.75**
		2+	**$296.50**
24 Silva Polaris Compasses with Carrying Case	4 lbs.	**36896**	**$258.75**
Be Expert with Map and Compass	10 oz.	**37041**	**$26.25**

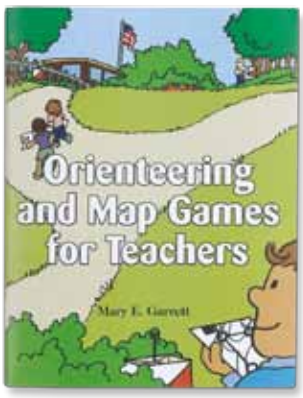
Orienteering and Map Games for Teachers

1266

Published and endorsed by the U.S. Orienteering Federation.

Bring the excitement of exploring and navigation to your classroom with this easy-to-understand, basic guide to orienteering. Pre-school, primary, and secondary grade levels in all curriculum areas can benefit from and enjoy the map making skills and hands-on activities and games introduced in this book. Softcover. 44 Pages.

Orienteering and Map Games for Teachers	8 oz.	**26889**	**$13.95**
		10+	**$10.95**



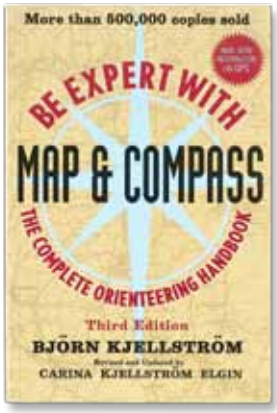
Be Expert with Map and Compass

1272

Compass fundamentals for the beginner.

Third Edition. A complete, step-by-step instructional book to train the inexperienced compass user. Also contains information relating to GPS. Contains many projects and practical exercises. 256 Pages. Softcover.

Be Expert with Map and Compass	10 oz.	**37041**	**$26.25**



[search engine powered by magazooms.com]

Silva®

Silva® Forecaster® 610 Compass

7888

The easy-to-read compass features 5° graduations and a fixed liquid-filled capsule. The alcohol-based thermometer reads in °F and °C. Wind chill chart imprinted on the back. Features a non-magnetic brass split ring. Works as a key chain or zipper pull. **Dimensions:** 2.5625″ x 1.6″. **Weight:** 0.5 oz.

Silva Forecaster 610 Compass 1 oz.	C	**37068**	**$10.25**

Note: Keys other than brass keys may interfere with the compass needle.

Silva®

Silva® Wristband Compass

7889

This handy compass attaches to web, plastic, and leather watch bands up to 11/16″ (18mm) in width. The compass features a liquid-filled capsule, graduated markings every 11.25°, luminous cardinal points (N, S, E, and W), and intercardinal markings. **Diameter:** 1″. **Weight:** 0.2 oz.

Silva Wristband Compass 1 oz.	**37159**	**$10.25**

Suunto® Clipper Clip-on Compass

1255

Attaches easily to your wristwatch, shirt, or vest.

This easy-to-read compass is graduated 0-360° (Azimuth) in 10° units. Rotatable, luminous memory ring, liquid-filled capsule, and sapphire jewel. Black. **Dimensions:** 1-1/4″ x 1″.

Clip-on Compass 1 oz.	**37018**	**$16.25**

SUUNTO

Suunto® Compass Instruction Kit

1262

Great in the classroom or field!

A valuable instructional aid, this kit includes a red plastic carrying case with 30 Suunto Partner II A10 Compasses (37177), a large instructional compass (36952), and instructions.

Case dimensions: 15-1/2″ x 12-1/4″ x 3-3/4″.

30-Compass Instruction Kit	C	5 lbs.	**36889**	**$408.95**
			2+	**$380.50**

SUUNTO

Suunto Instructional Compass

1261

This large demo compass can be used to show different features of the compass and how it works.

Suunto Large Demo Compass, 14-1/8″L x 8″W 4 oz.	C	**36952**	**$39.25**

DESKTOP. TABLET. MOBILE.
THE NEW
FORESTRY-SUPPLIERS.COM

SUUNTO

Suunto® Orienteering Punches & Cards

1265

Place one punch at each orienteering station to mark scorecards for evidence that each station was accurately located. Each plastic punch features a distinct design.

Suunto® Orienteering Punches

Style A, Pack of 10 10 oz.	**36851**	**$56.95**
Style B, Pack of 10 10 oz.	**36852**	**$56.95**

Orienteering Control Cards

4″ x 8.25″ cards printed on DuPont Tyvek® to repel water and resist tears.

Pack of 25 2 oz.	**36903**	**$5.95**

SUUNTO

Suunto® Orienteering Course Markers

1263

Use as station markers.

These three-sided course markers are great for teaching orienteering. Bright orange and white waterproof nylon with sturdy frame constructed of rigid plastic tubing. Nylon cords withstand harsh weather.

12″ x 10.5″ Course Markers 2 oz.	**37214**	**$15.25**
	10+	**$14.25**
	20+	**$13.25**

C Combination English and Metric

[search engine powered by magazooms.com]

SUUNTO

Suunto® M-9 Sighting Wrist Compass
7603

This compact, highly accurate, luminous wrist compass features a unique sighting window which allows more accurate bearings to be taken. The ratcheting capsule has grooves on the upper edge that make it easy to turn when setting the desired direction. Compass is graduated in 5° intervals and features a 6-second dampening. Velcro® wrist strap. Available for Northern Hemisphere only. **Capsule Size:** 1.6″ x 1.9″ x 0.6″.

Suunto M-9 Sighting Wrist Compass 3 oz.		**37032**	**$31.25**

SUUNTO®
Made in Finland
Manufacturer's Warranty Lifetime
ISO 9001 Certified DNV

Suunto® Partner II
1280

A10

Graduated 0 to 360° (Azimuth) in 2° units. Features a liquid-filled capsule, a declination correction scale, and scales in cm, inches, 1:24,000, and 1:62,500. Rounded baseplate fits comfortably in your hand and has red print, a black bezel with white print, and a tapered map edge. 2-1/4″ x 4-1/10″. Lanyard included.

Suunto Partner A10 Compass (Balanced for the Northern Hemisphere) 3 oz.	C	**37177**	**$16.95**
		10+	**$15.25**
Suunto Partner A10 Compass (Balanced for the Southern Hemisphere) 3 oz.	C	**37087**	**$19.95**
		10+	**$17.95**

Suunto® Woodsman II
1281

A30L

Graduated 0 to 360° (Azimuth) in 2° units. Features liquid-filled capsule, declination correction scale, luminous points, and magnifier base. Baseplate is rounded to fit comfortably in your hand. Base scales in inches, cm, and 1:24,000. Luminous bezel with black print. 2-1/4″ x 4-1/2″. Lanyard included.

Suunto Woodsman II A30L, Luminous Bezel 3 oz.	C	**37179**	**$19.50**
		10+	**$18.25**

Location & Bearing Tree Posters pages 26 and 563

Silva®

Silva® TECH4O™ Sportsman's Tool™
8371

This handy tool features a luminous compass with intercardinal graduations of 11.25°, a thermometer, a magnifying glass, and a safety whistle. It even floats! Lanyard included. **Dimensions:** 3.2″ x 1.2″. **Weight:** 0.8 oz.

Survivor Tool Key Chain 2 oz.	C	**37008**	**$11.25**

Dual-Faced Map Measurer
6814

English/Metric

Graduated in inches (1/2″ = 1′; 1/4″ = 1′; 1/8″ = 1′; 1/16″ = 1′) on one side and in inches and centimeters (36″ = 92 cm) on the other side. Precision measurement forward or backward. Features automatic reset and includes a protective, vinyl sheath.

Dual-Faced Map Measurer 2 oz.	C	**45257**	**$36.75**
		5+	**$33.50**

Silva®
Manufacturer's Warranty Lifetime

Silva® Explorer Baseplate Compass
1288

Graduated 0-360° (Azimuth) in 2° units. Liquid-filled capsule; declination scale; nighttime luminous points; magnifier; protractor baseplate with scales in inches – 16ths, 1:24,000, 1:62,500, 1/10 mile. Lanyard and instructions included. 4-1/4″ x 2-1/8″.

Silva Explorer 3 oz.	E	**37065**	**$18.25**
		10+	**$16.75**

Silva® Polaris Baseplate Compass
1287

Graduated 0-360° (Azimuth) in 2° units. Protractor base with scales in inches – 16ths, cm-mm. 1:24,000 scale. 2″ x 3″. Swedish steel needle, jeweled sapphire bearing, special damping fluid, proprietary filling process, acrylic baseplate and capsule. Instructions included. Liquid-filled capsule.

Silva Polaris, Azimuth, Standard Bezel 3 oz.	C	**37054**	**$15.75**
		10+	**$14.50**
Silva Polaris, Azimuth, Hi-Vis Bezel 2 oz.	C	**37154**	**$15.75**
		10+	**$14.50**

Silva® Starter 1-2-3 Baseplate Compass
1286

Graduated 0-360° (Azimuth) in 2° units. Protractor base with scales in cm-mm. 1-13/16″ x 3-1/2″. Swedish steel needle, jeweled sapphire bearing, special damping fluid, proprietary filling process, acrylic baseplate and capsule. Liquid-filled capsule. Declination scale. Instructions included.

Silva Starter 1-2-3, Azimuth, Standard Bezel 2 oz.	C	**37064**	**$12.95**
		10+	**$11.75**
Silva Starter 1-2-3, Azimuth, Hi-Vis Bezel 2 oz.	C	**37155**	**$13.25**
		10+	**$12.25**

Whistle
6200

Unbreakable black plastic whistle. Lanyard ring attached.

Whistle 1 oz.		**04028**	**$1.95**
		12+	**$1.55**

C Combination English and Metric
E English

Unless specified compasses on this page and page 58 are calibrated for Northern Hemisphere.
Compasses featuring a Global Needle can be used anywhere in the world.

While this listing provides information for Northern Hemisphere models, calibrations for other zones are available. Call us at 800-647-5368 for details.
International Orders: 011-1-601-354-3565.

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SUUNTO

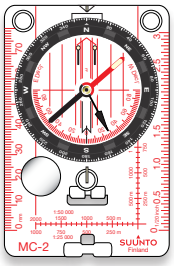
Suunto® MC2 Navigator Mirror Sighting Compass with Built-In Clinometer

1292

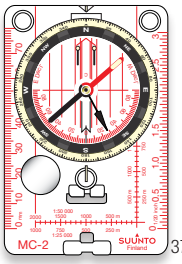
Made in Finland
Manufacturer's Warranty Lifetime
ISO 9001 Certified DNV

Liquid-damped magnetic steel needle and long-lasting precision pivot. Built-in magnetic declination screw and magnifying lens. Sighting mirror with luminous points. Additional sighting hole. Clear protractor base is imprinted in red and features skid-proof rubber map feet. Clinometer measures heights and slopes to ±90°. Lanyard and declination tool included. **Baseplate Dimensions:** 2-1/2″ x 3-13/16″.

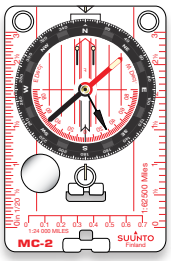
Accessories for MC2			
Cordura Case with Velcro Closure, 5-1/2″ x 3-3/4″	1 oz.	**37004**	**$12.95**
Leather Case with Belt Loop	3 oz.	**37040**	**$13.25**



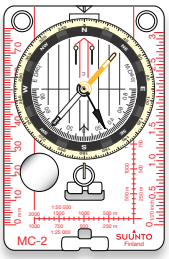
37182



37184



37185



37187

Standard MC2D Navigator Compass

Features a magnifier in the base, 1/20 inch scale, a mm scale, plus 1:25,000 and 1:50,000 map scales.

Suunto Navigator MC2D/ MM Azimuth (0-360°)	C	5 oz.	**37182**	**$41.95**
			5+	**$37.95**
Suunto Navigator MC2DQ/ MM Quadrant (0-90-0°)	C	4 oz.	**37183**	**$41.95**
			5+	**$37.95**
Suunto Navigator MC2DL/ MM Azimuth (0-360°), With Luminous Bezel	C	5 oz.	**37184**	**$41.95**
			5+	**$37.95**

Navigator MC2D Compass with Inch Scales and USGS Scales

Features a magnifier in the base, a 1/20 inch scale, plus the 1:24,000 and 1:62,500 USGS Forestry Scales.

Suunto Navigator MC2DAZ/ IN Azimuth (0-360°)	E	5 oz.	**37185**	**$41.95**
			5+	**$37.95**
Suunto Navigator MC2DQ/IN Quadrant (0-90-0°)	E	4 oz.	**37186**	**$41.95**
			5+	**$37.95**
Suunto Navigator MC2DL/ IN Azimuth (0-360°), With Luminous Bezel	E	4 oz.	**37163**	**$39.95**
			5+	**$35.75**

Navigator MC2G Compass with Global Needle

Features Metric or English scales, a global needle, and luminous bezel.

Suunto Navigator MC2G/MM Azimuth (0-360°)	M	5 oz.	**37187**	**$63.75**
			5+	**$58.95**
Suunto Navigator MC2G/IN Azimuth (0-360°)	E	4 oz.	**37189**	**$63.95**
			5+	**$58.95**

SUUNTO

Suunto® Challenger

1295

MCA-D

Graduated 0 to 360° (Azimuth) in 2° units. Mirror cover opens to 60°, 120° and 180°. Liquid-filled capsule, declination scale. Has scales in 1:24,000, 1:62,500, inches, 8ths, 16ths or cm, mm. Measures 3-1/8″ x 2-1/4″.

Suunto Challenger MCA-D, Northern Hemisphere 4 oz.	C		**37023**	**$34.95**
			10+	**$32.50**

SUUNTO

Suunto® MCB Amphibian Compass

6446

Floating Compass

Lightweight mirror-sighting compass is graduated 0 to 360° in 2° units and even floats! Fixed declination correction scale, polypropylene lid, sighting mirror, and rotating bezel. Detachable snap-lock lanyard with whistle. 2.5″ x 5″ x 0.6″.

Suunto Amphibian MCB, Black 3 oz.	E		**37100**	**$24.75**
			10+	**$22.50**

SUUNTO

Smoke Killer II

4551

This baseplate compass features two U.S.G.S. Scales (1:24,000 and 1:62,500), a 1/16th inch scale, a 4x magnifier, large black print, and luminous points and bezel. Other features include a liquid-filled capsule with a jeweled bearing, a self-cleaning capsule attachment, and a declination correction scale. Azimuth graduations in 2° increments. Lanyard and instructions included. 2-3/16″ x 4-1/16″.

Suunto Smoke Killer II 2 oz.	E		**37153**	**$17.95**

SUUNTO

Suunto® Leader

1283

M-3DL/M-3G

A top-quality compass at an affordable price! Graduated 0 to 360° (Azimuth) in 2° units. Liquid-filled capsule, jeweled bearing, adjustable declination, 4X magnifier base, and luminous bezel. Baseplate has a rounded back to fit snugly in your hand. Base scales in in-cm, 1:24,000, 1:62,500. 2-1/2″ x 5″. Lanyard and declination tool included.

Suunto Leader M-3DL 4 oz.	C		**37017**	**$30.50**
Suunto Leader M-3G with Built-In Clinometer and Global Needle 5 oz.	C		**37024**	**$53.50**

Unless specified compasses on this page are calibrated for Northern Hemisphere.
Compasses featuring a Global Needle can be used anywhere in the world.
While this listing provides information for Northern Hemisphere models, calibrations for other zones are available. Call us at 800-647-5368 for details. **International Orders:** 011-1-601-354-3565.

E English
M Metric
C Combination English and Metric

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Silva® Ranger® with Built-In Clinometer
1296

Rotating compass dial with graduations every 2°. Swedish steel needle pivots on a liquid damped, sapphire jeweled bearing. Built-in magnetic declination adjustment screw. Mirror-sighting with luminous points. Needle orienting arrow and lines. Map magnifier. Clear protractor baseplate has inch scale edge (graduated in 20ths), millimeter scale edge and Romer Scales of 1:24,000, 1:25,000, and 1:50,000. Clinometer reads to ±90°. 2-1/4″ x 4″ closed. Lanyard and instructions included.

Silva Ranger CL15Q, Quadrant (0-90-0°)	C	6 oz.	**37035**	**$44.50**
			5+	**$40.75**
Silva Ranger CL15, Azimuth (0-360°)	C	6 oz.	**37036**	**$44.50**
			5+	**$40.75**
Silva Ranger CL15 Hi-Vis, Azimuth (0-360°)	C	6 oz.	**37136**	**$44.50**
			5+	**$40.75**
Leather Case with Belt Loop		3 oz.	**37040**	**$13.25**

Silva® Guide Floating Compass
1289

A durable mirror-sighting compass that floats! Graduated 0-360° (Azimuth) in 2° units. Features include fixed declination scale, inch and millimeter scales, liquid-filled capsule, Swedish steel needle, jeweled bearing, red/black North-South lines, and orienting arrow. 2-3/4″ x 2-1/4″ closed.

Silva Guide, Charcoal	C	3 oz.	**37051**	**$20.50**
			10+	**$19.25**
Silva Guide, Orange	C	3 oz.	**37461**	**$20.25**
			10+	**$19.25**

Silva® Trekker
1290

This mirror-sighting compass is graduated 0-360° (Azimuth), graduations every 2°. Features include fixed declination scale, inch and millimeter scales, liquid-filled capsule, Swedish steel needle, jeweled bearing, red/black North-South lines, and orienting arrow. 2-1/8″ x 3-1/8″.

Silva Trekker	C	4 oz.	**37067**	**$25.25**
			10+	**$23.75**

Padded Nylon Case
With belt loop. Fits all Silvas on this page.

Padded Nylon Case with Belt Loop	2 oz.	**37069**	**$11.95**

Cascade Designs Map Cases
4084

Tough, waterproof and transparent!

Features include corner D-rings for attachment and a wide-track zip seal to keep out rain.

Small - Dimensions: 8″ x 12″ outside; 6″ x 10.5″ inside.	3 oz.	**51044**	**$14.95**
Medium - Dimensions: 12″ x 16″ outside; 10″ x 14.5″ inside.	5 oz.	**51045**	**$17.95**

Cruiser Kit/Map Case
2086

Doubles as a clipboard and aerial photo holder!

Constructed of waterproof nylon fabric with edge binding for extra strength. Two Velcro® closure side straps keep the clipboard open 90° while in use. Other features include a full-size map pocket, a compass/prism pocket, and a pen/scale organizer. Straps to your chest using neck and waist harness. **Dimensions:** 14″ x 11-3/4″.

Cruiser Kit/Map Case	1 lb.	**51033**	**$46.95**

C Combination English and Metric

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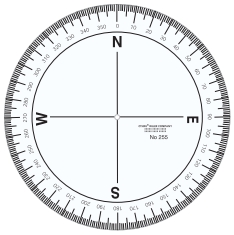
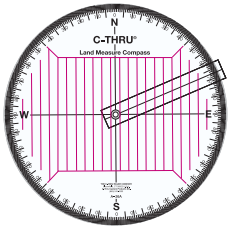


Azimuth Compass Protractor
5921

Helpful in map reading and navigation. Made of clear plastic, 3-1/2″ in diameter Graduated 0-360° in 1° increments. 3-1/2″ Diameter. Transparent plastic.

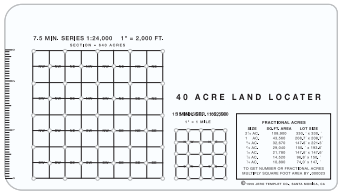
Azimuth Compass Protractor	1 oz.	**47954**	**$1.50**



Land Measure Compass
5920

Land measure compass with cursor arm enables you to lay out a property description. 360° Divided into four 0-90° quadrants. 5″ Diameter. Transparent plastic.

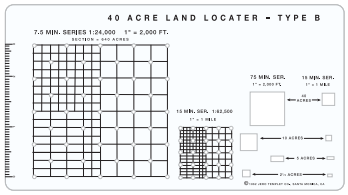
Land Measure Compass	1 oz.	**47922**	**$5.50**



40-Acre Land Locator, Type A
5911

Features two scales, 1″ = 2,000 ft. (1:24,000) and 1″ = 1 mile (1:62,500), to fit standard detail maps used by the USGS. Holes punched to mark 40 and 10 acre boundaries with pencil or ball pen and from which smaller parcels may be located. Includes a fractional acres reference table showing square foot areas of various fractional acres, approximate lot sizes, and formula for conversion of acreage, or fractional acres, of a given measurement for a parcel of land. Template is 3-5/8″ x 6-5/8″. Stiff frosted plastic.

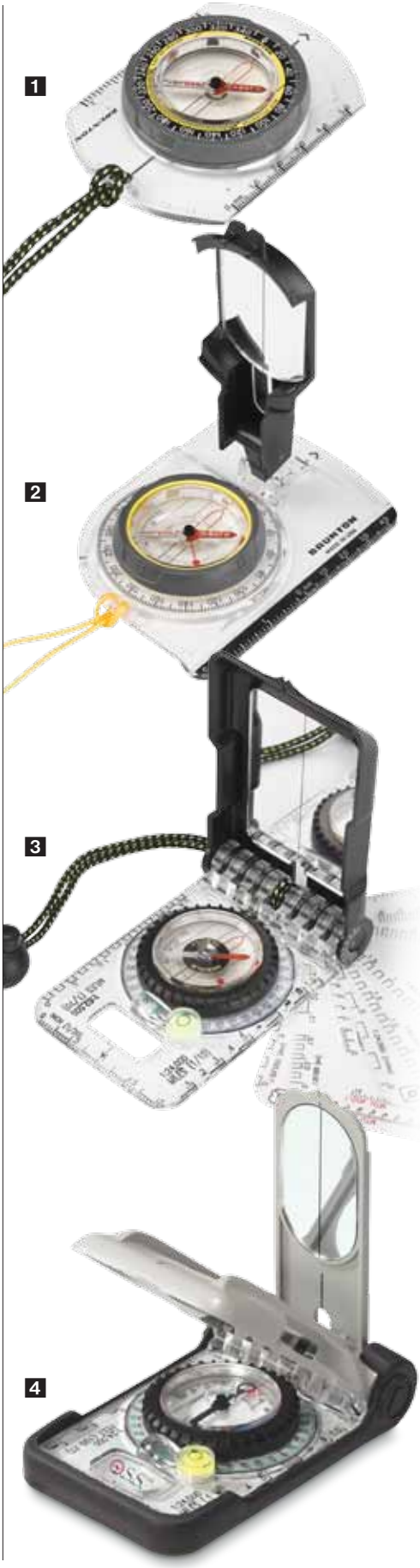
40-Acre Land Locator	1 oz.	**45660**	**$9.95**



40-Acre Land Locator, Type B
5910

In addition to features found in 45660, square holes appear as cutouts in sizes of 2-1/2, 5, 10 and 40 acres. These cut-outs are on both scales, 1″ = 2,000 ft. (1:24,000) and 1″ = 1 mile (1:62,500), and make it easy to draw exact size and location of any area on pinpointed map. Template is 3-5/8″ x 6-5/8″. Frosted plastic.

40-Acre Land Locator	1 oz.	**45661**	**$10.95**



BRUNTON

1 New! Brunton® TruArc™ 3 Baseplate Compass
7927

Made in USA

Graduated 0 to 360° (Azimuth) in 2° units. Features include the TruArc Global Needle System with Ever-North™ rare earth magnets, inch/mm scales and tool-free declination adjustment. Lanyard included. Made in USA.

Overall Dimensions: 2.5″ x 3.5″ x 0.5″. **Warranty:** U-Proof.

TruArc 3 Baseplate Compass	3 oz.	**37090**	**$12.99**

2 New! Brunton® TruArc™ 7 Mirror Compass
7929

Made in USA

Graduated 0 to 360° (Azimuth) in 2° units. Mid-hinged sighting mirror allows you to sight objects faster and more accurately. Features include a TruArc Global Needle, clinometer, inch/mm scales, on-the-map Meridian lines, tool-less declination adjustment, and a protective cover. Made in USA.

Overall Dimensions: 2.9″ x 3.9″ x 0.8″. **Warranty:** U-Proof.

TruArc 7 Mirror Compass	4 oz.	**37092**	**$29.99**

3 New! Brunton® TruArc™ 15 Mirror Compass
7892

Made in USA

Graduated 0 to 360° (Azimuth) in 2° units. Features include the TruArc Global Needle system that will not lose polarity and resists magnetic interference, the triple clinometers system which allows for fast and accurate reference information for avalanche safety or earth-science field work, a full coverage mirror cover, a map magnifier, a sighting mirror, bubble level, clinometer, and magnified readout. Includes a Brunton Universal Topo Buddy. Made in the USA.

Scales: 1/20 inch scale, plus the 1:24,000 and 1:62,500 USGS Forestry Scales. **Overall Dimensions:** 4″ x 2.5″ x 0.6″. **Warranty:** U-Proof.

TruArc 15 Mirror Compass	4 oz.	**37093**	**$49.99**

4 New! Brunton® TruArc™ 20 Mirror Compass
7926

Made in USA

Graduated 0 to 360° (Azimuth) in 2° units. Features include the TruArc Global Needle system that will not lose polarity and resists magnetic interference, the triple clinometers system which allows for fast and accurate reference information for avalanche safety or earth-science field work, tool-less declination adjustment, a protective mirror cover and foot, map magnifier, sighting mirror, bubble level, clinometer, and magnified readout. Includes a Brunton Universal Topo Buddy. Made in the USA.

Scales: 1/20 inch scale, plus the 1:24,000 and 1:62,500 USGS Forestry Scales. **Overall Dimensions:** 4.1″ x 2.5″ x 1″. **Warranty:** U-Proof.

TruArc 20 Mirror Compass	6 oz.	**37094**	**$59.99**

DESKTOP. TABLET. MOBILE.
THE NEW FORESTRY-SUPPLIERS.COM

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1 Kasper & Richter Meridian PRO Sighting Compass
6456

Featuring both a flip-up sighting prism and a rotating bezel, the Meridian PRO can be used as a traditional hand-held compass or as an optical sighting transit. The compass also features an integrated clinometer and a 1/4″ thread for tripod attachment. Other features include a durable aluminum body, fluid-filled dampening, a thermo-elastic capsule for bubble-free performance, a bubble level, a thumb holder ring, a clear lid with sighting line, a Cordura® carrying case with belt loop, a luminescent bezel and north points, inch and mm scales, a metal bezel with 0 to 360° azimuth scale (5° resolution), and an internal compass card with 0 to 360° azimuth scale and reciprocal scale (1° resolution). **Dimensions:** 3.9″ x 2.5″ x 1.2″. **Weight:** 7.4 oz.

Meridian PRO Sighting Compass	C	10 oz.	**37301**	**$164.00**

1

2 Military Lensatic Compasses
1308

Originally produced for the U.S. Armed Forces.

Graduated Azimuth (0-360°) in 5° units, the outer portion of the dial is graduated in mils. Sturdy aluminum case with metal hinges, painted olive green. Waterproof and shockproof. Built-in magnifying lens and 1:50,000 map scale die-cast on the side. Damped by an inner copper shell that allows for fast settling of needle. **Operating temperature:** -50° to +160°F. Includes finger loop for holding compass steady, nylon lanyard and nylon carrying case with "Alice" belt clip.

Model 183

Contains tritium filled vials that provide a bright green fluorescence allowing the compass to be read at night without an external light source.

Military Lensatic Compass, Model 183	M	8 oz.	**37217**	**$90.25**

Model J277

Has phosphorescent paint that requires outside light for activation.

Military Lensatic Compass, Model J277	M	8 oz.	**37218**	**$59.95**

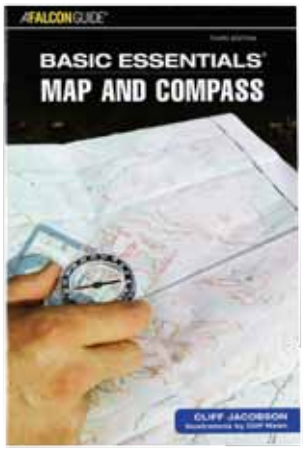
2

3 The Basic Essentials of Map & Compass
1267

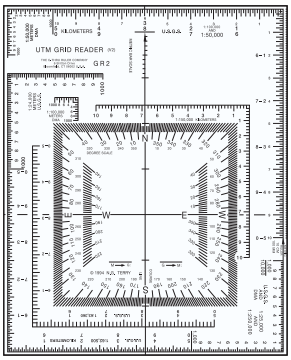
Essential map and compass information.

Third Edition. This economical guide is filled with useful information for first-time compass users. Topics include kinds of maps, understanding map contours and profiles, advantages/disadvantages of various compass types, basics of compass reading—even how to navigate by night, river or moose trails. Softcover. 96 Pages.

The Basic Essentials of Map & Compass	6 oz.	**36989**	**$9.95**



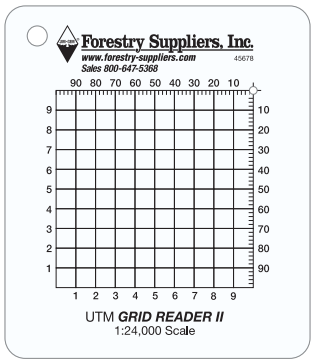
3



UTM Grid Reader
4301

Transparent Grid Reader is laminated for durability. Features the following scales: 1:24,000, 1:62,500, 1:25,000, 1:250,000, 1:50,000, 1:100,000, 1:150,000 and 1:63,360. A full 360° protractor is also incorporated.

UTM Grid Reader	1 oz.	**45670**	**$5.95**



Forestry Suppliers' UTM Grid Reader II
5918

The UTM Grid Reader II utilizes the Universal Transverse Mercator System! Used to find and plot coordinates, measure distances in feet, estimate surface area in acres, and aid in finding slope on a topographic map. Features include enlarged templates on the outside margins and values printed on the grid lines on three sides for easier counting. Transparent template is designed for use with a 1:24,000 Scale USGS topographic map. Made of two pieces of rugged, laminated vinyl measuring 0.040″ in total thickness.

Forestry Suppliers' UTM Grid Reader II, 2-1/2″ x 2-3/4″	1 oz.	**45678**	**$11.95**

Aerial Photo Chain Scale
5895

Excellent for foresters, surveyors and others wishing to read aerial photos and maps in chains. White vinyl. Measures 6-1/4″L x 1″W.

Aerial Photo Chain Scale	1 oz.	**47215**	**$2.50**

Graduated on both sides

Scale	1″ =	Reads in:
1: 12,000	1″ = 15 chains	Chains
1: 15,840	1″ = 20 chains	Chains
1: 20,000	1″ = 25 chains	Chains, Inches, Inches to 10ths

G.I. Style Canteen
page 665

G.I. Style Duffle Bag
page 680

M Metric
C Combination English and Metric

[search engine powered by magazooms.com]

37225 37206

37380

37240

37250

BRUNTON

Brunton® Pocket Transits

1310

Ideal for geologists, engineers, surveyors and foresters.

Accurate, reliable transits feature aluminum housings. **Horizontal angles:** 0-360° (Azimuth) or 0-90-0° (Quadrant), graduations to 1°. **Vertical angles:** ±90°, vernier reading to 10 minutes. Declination adjustment. **Dimensions:** 2-3/4″ x 3″ x 1-1/8″.

Made in USA

Induction-Damped Standard Pocket Transit

Special design feature allows the needle to seek magnetic North and come to a complete rest approximately eight times faster than the needle on undamped models. Unique lift mechanism automatically stops needle when case is closed, helps prolong needle life. Button on face of transit allows you to stop needle quickly and hold it in place. Leather case included.

Azimuth (0-360°)	E	14 oz.	**37215**	**$399.99**
Quadrant (0-90-0°)	E	14 oz.	**37225**	**$399.99**

Induction-Damped International Waterproof Pocket Transit

Acclaimed to be the "best" and most advanced pocket transit available. International models can be used anywhere in the world without rebalancing. The needle has a lower center of gravity allowing for use in a wider range of countries. Leather case included.

Azimuth (0-360°)	E	13 oz.	**37206**	**$429.99**
Quadrant (0-90-0°)	E	14 oz.	**37208**	**$429.99**

Pocket Transit Accessories

Extension Tripod, 19.5″ to 48″	2 lbs.	**37250**	**$126.75**
Tripod Adapter – threaded ball and socket yoke screws on extension tripod or Jacob's staff adapter†	7 oz.	**37240**	**$66.00**
Jacob Staff Adapter, fits 37240†	1 oz.	**37260**	**$13.00**
54″ Jacob Staff – Precision turned hardwood with steel tip	4 lbs.	**37380**	**$85.50**
Leather Case	3 oz.	**37300**	**$11.75**

†Both are required to mount transit on Jacob Staff.

BRUNTON

Brunton® GEO™ International Geological Structural Transit

7084

Manufacturer's Warranty Lifetime

Made in USA

This transit's single NdFeB magnet resists demagnetization better than other types of magnets for increased reliability. The induction damped needle provides quick, accurate readings while the sapphire jewel bearing allows for smooth needle movement. Two long-level bubbles on the aluminum housing permit no-guess leveling from the sides or the bottom. O-rings make the transit waterproof. Other features include adjustable needle locking mechanism with two positions, hinge inclinometer with 2° increments for 1° readable dip measurements, and "Buck Horn" style sights for increased accuracy when sighting azimuth or vertical angles. Leather case included. Lifetime warranty from Brunton.

Horizontal angles: 0-360° (Azimuth), 1° graduations. **Vertical angles:** ±90°, vernier reading to 10 minutes, ±100% grade, 5% divisions. Declination adjustment.

Azimuth (0-360°)	1 lb.	**37193**	**$599.99**
Quadrant (0-90-0°)	1 lb.	**37194**	**$599.99**

E English

Unless specified compasses on this page are calibrated for Northern Hemisphere. Compasses are calibrated for one of two different zones that compensate for magnetic differences around the globe.

37227

BRUNTON

Brunton® Com/Pro 90

1309

Patented international suspension.

Made in USA

Features a patented international suspension that is less sensitive to tilting action caused by the earth's magnetic pull for use in a wider range of latitudes without rebalancing the needle. Meets U.S. Military waterproofing Spec. 101 b. Improved lift mechanism with high visibility vials, clearly marked needle, true non-magnetic patented composite material. No-shift declination adjustment, long lasting hinges, non-chip plastic exterior. Includes leather case and instruction manual. 2-13/16″ x 3-13/16″ x 15/16″.

Horizontal angles: 0-360° (Azimuth) or 0-90-0° (Quadrant), graduated to 1°. Declination adjustment. **Vertical angles:** ±90°, vernier reading to 10 minutes, ±100% grade, 5% divisions. **Weight:** 9 oz.

Model F5008 Azimuth 0-360°	E	13 oz.	**37226**	**$299.99**
Model F5007 Quadrant 0-90-0°	E	13 oz.	**37227**	**$299.99**

Compasses featuring a Global Needle can be used anywhere in the world. While this listing provides information for Northern Hemisphere models, calibrations for other zones are available. Call us at 800-647-5368 for details. International Orders: 011-1-601-354-3565.

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SOKKIA

Sokkia™ Surveying Compass with Transiting Telescope

1315

Lightweight, compact surveying compass ideal for use where a small pocket transit is needed for general surveying. Includes carrying case with shoulder strap. Azimuth compass graduated to 1°. Declination adjustment 45° East or West, 5′ vernier. 12x Telescope, erect image, 4-3/4″ long, minimum focus 4′.

Stadia: 1:100. **Vertical circle:** 50°-0°-50° (top and bottom). 2-1/2″ needle and vernier controls for horizontal and vertical motions. **Dimensions:** 5-3/4″ High from base to top, 4-3/4″ Diameter.

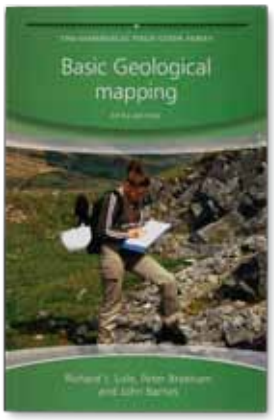
Azimuth (0-360°)	3 lbs.	**37485**	**$1285.00**
Tripod with case and strap	3 lbs.	**37487**	**$183.00**

Warren-Knight Forester Staff Compass

1314

Double-graduated, 0-360° (Azimuth) and 0-90-0° (Quadrant) to 1°. Declination adjustment 45° East or West, 5′ vernier. Thumb screw needle lock. Cardinal points rotate with graduated circle when declination is set off. 3-3/4″ sight folds down for storing. Interchangeable scales on sights enable slope measurements to ±30° or ±60%. Circular spirit level vials mounted permanently on compass face. Offset sights are notched in housing at 90°. **Diameter:** 4.5″. **Height:** 1-1/4″ (closed). Includes ball and socket joint, Cordura® carrying case, slope measurement scales.

Azimuth and Quadrant Scales	2 lbs.	**37463**	**$595.00**
54″ Jacob Staff – Precision turned hardwood with steel tip	4 lbs.	**37380**	**$85.50**



Basic Geological Mapping

3713

By John W. Barnes with Richard J. Lisle. Fifth Edition. John Wiley & Sons. 2011. This pocket-sized reference guide includes information on the latest developments and techniques involving GPS and computerized methods, material on the use of aerial photographs in mapping, aspects of field safety, and a comprehensive checklist of useful equipment. Also included are chapters on preparing cross-sections, drafting and presenting "fair copy" maps, drawing geological diagrams for use in reports, and presentation of final reports. Softcover. 230 Pages.

Basic Geological Mapping	8 oz.	**59896**	**$52.75**

CST/berger

CST/Berger Induction Damped Pocket Transit

4848

Ideal for surface or underground preliminary surveying, topographical, and geological field work and reconnaissance.

Horizontal angles: 0-360° (Azimuth) or 0-90-0° (Quadrant), 1° graduations. Vertical angles: ±90° with vernier reading to 10 minutes, ±100% grade with 5% divisions. Needle lock. Declination adjustment. Includes velvet-lined belt loop case.

Weight: 8 oz. **Dimensions:** 2-3/4″ x 3″ x 1-1/4″.

Azimuth (0-360°)	E	11 oz.	**37088**	**$159.95**
Quadrant (0-90-0°)	E	11 oz.	**37089**	**$159.95**
Leather Case		3 oz.	**37300**	**$11.75**

E English

Unless specified compasses on this page are calibrated for Northern Hemisphere. Compasses are calibrated for one of two different zones that compensate for magnetic differences around the globe. Compasses featuring a Global Needle can be used anywhere in the world. While this listing provides information for Northern Hemisphere models, calibrations for other zones are available. Call us at 800-647-5368 for details. International Orders: 011-1-601-354-3565.

Made in USA

Manufacturer's Warranty 1 Year

BRUNTON

New! Brunton OMNI-SIGHT Sighting Compass

7085

The OMNI-SIGHT spot-through compass offers the convenience of multiple precision instruments in one hand-held unit thanks to both forward and reciprocal bearings, 360° azimuth, plus 90° quadrants and 6400 point MILS. Steadfast aluminum housing ensures ruggedness and reliability, and the internal rare-earth magnet guarantees accuracy and resists magnetic interference. Light piping illuminated readout gives a clear bright reading even in low light. Made in the USA.

Resolution: 1°. **Dimensions:** 2.5″ x 3.5″ x 0.5″. **Warranty:** One year warranty from the manufacturer.

Brunton Omni-Sight Sighting Compass	12 oz.	**31194**	**$139.99**

Made in USA

Manufacturer's Warranty 1 Year

BRUNTON

New! Brunton Omni-Slope Sighting Clinometer

7086

The ultimate forestry instrument! The OMNI-SLOPE inclinometer measures angles in degrees, percent grade and the 66 foot forestry chain. The lightweight aluminum housing provides years of field reliability, and the 180° range precision pendulum is fast, accurate, and smooth. Light piping illuminated readout gives a clear bright reading even in low light. Made in the USA.

Resolution: 1°. **Dimensions:** 2.5″ x 3.5″ x 0.5″. **Warranty:** One year warranty from the manufacturer.

Brunton Omni-Slope Sighting Clinometer	12 oz.	**31195**	**$139.99**

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How to use the Suunto KB-14 and KB-20.

Keep both of your eyes open. Use one eye to look through the lens and the other to look over the compass body. This creates an optical illusion, and the vertical sighting line will appear to project above the compass. Place the projected line on your target and simultaneously read the compass dial for your bearing.

All compasses on these pages are calibrated for Global use.

There are five different geographic zones for compasses, and each zone requires that the compass you use be calibrated differently. We stock global compasses that can be used anywhere as well as special calibrations for areas outside North America. U.S. Orders: 1-800-647-5368 or FAX 1-601-355-5126; International Orders: 011-1-601-354-3565.

Forestry Suppliers' In-House Compass Repair Service

Suunto KB-14 models and Tandem can be repaired by Forestry Suppliers, Inc. Includes replacement compass card and housing cleaning for $64.00 plus shipping. Sorry, but Model KB-20 cannot be repaired. Call for information.

Compass Cases and Covers

1553

Suunto® Cordura® Compass Case

Fits all compasses. Features Velcro® closure and belt loop. Black Cordura nylon. **Dimensions:** 5-1/2″ x 3-3/4″.

Cordura Case with Velcro Closure, 5-1/2″ x 3-3/4″	1 oz.	**37004**	**$12.95**

Suunto® Protective Rubber Cover

Fits Suunto KB-14 model compasses and PM5 model clinometers. Protects against impact and is easy to hold in cold weather or while wearing gloves. Yellow.

Rubber Protective Cover	1 oz.	**37002**	**$14.95**

Leather Compass Case

Fits all mirror and precision compasses*. Features belt loop and snap closure.

Leather Compass Case	2 oz.	**37011**	**$10.25**
Leather Case with Belt Loop	3 oz.	**37040**	**$13.25**

* Except Suunto KB-14 model compasses or PM model clinometers with optional protective rubber cover (37002).

37042

Manufacturer's Warranty 2 Year

SUUNTO®

New! Suunto® KB-14 Precision Global Compasses

1301

Manufacturer's Warranty 2 Year

Features optical adjustment. Heavy-duty impact and corrosion resistant aluminum housings are flat and compact with no protruding or adjustable parts. Needle cards are immersed in a clear, low-viscosity liquid damping for smooth, vibration-free movement. Needle cards pivot on polished sapphire bearing. Azimuth models graduated to 1/2°; estimate to 1/4°. Quadrant models are graduated in 1° units. Cotangent table printed on back. Balanced for global use. Black nylon case included. **Dimensions:** 3″ x 2″ x 9/16″.

Global KB-14/360RG, Azimuth 0-360° without Declination Adjustment	7 oz.	**37070**	**$117.25**
		3+	**$110.50**
Global KB-14/360RDG, Azimuth 0-360° with Declination Adjustment (20° East and West)	7 oz.	**37019**	**$147.95**
		3+	**$140.25**
Global KB-14/360QG, Quadrant 0-90-0° without Declination Adjustment	7 oz.	**37075**	**$117.25**
		3+	**$110.50**
Global KB-14/360QDG, Quadrant 0-90-0° with Declination Adjustment (20° East and West)	7 oz.	**37042**	**$147.95**
		3+	**$140.25**

Peco DCC-1 Digital Compass/Clinometer
www.forestry-suppliers.com

New! Suunto® Vista KB-20 Global Precision Compass

1303

With the same features as the KB-14, the high-impact plastic housing of the KB-20 floats and is both waterproof and shockproof. Balanced for global use and graduated to 1°; estimates to 1/2°. Small backsight bearings are printed above the larger foresight bearings for easier orientation, navigation. **Size:** 2-7/8″ x 2-1/8″ x 5/8″. Includes lanyard. Sold without case.

Global KB-20/360R, Azimuth 0-360°	3 oz.	**37031**	**$68.95**
		4+	**$63.75**

New! Suunto® Tandem Global Compass/Clinometer

1305

Slope and height measurements and compass bearings in one instrument!

Combines a liquid damped precision compass and clinometer in one compact, rugged aluminum housing that protects against impact, corrosion, and water. Clinometer scale is graduated in percent and degree (0-90°, 0-150%); compass scale is in azimuth (0-360°) with the option of declination adjustment (20° East and West). The compass is balanced for global use and is graduated in 1/2° increments, and the clinometer is graduated in 1°/1% increments. Both compass and clinometer are individually calibrated. Engraved inch scale and cotangent and cosine tables to 45 on the back. Threaded tripod socket. Includes case and lanyard.

Suunto Tandem Global Compass/ Clinometer without Declination Adjustment	10 oz.	**32292**	**$199.00**
		5+	**$184.00**
Suunto Tandem Global Compass/ Clinometer with Declination Adjustment	10 oz.	**32293**	**$207.00**
		3+	**$186.00**
Rubber Protective Cover	3 oz.	**37012**	**$12.85**
Cordura Case with Velcro Closure, 5-1/2″ x 3-3/4″	1 oz.	**37004**	**$12.95**

E English

[search engine powered by magazooms.com]

How to hold and read a clinometer.

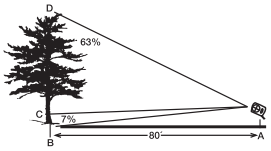
Keep both eyes open when using a clinometer. Use one eye to look through the lens at the scales while the other sights alongside the clinometer housing. An optical illusion is created and the horizontal sighting line will appear to project to the side of the clinometer housing. Place this sighting line on your target and read the scale.

Measuring slopes.

To measure slope, sight parallel with the ground (upslope or downslope) to a target, aiming at a point on the target that is equal to the height of your eye above the ground.

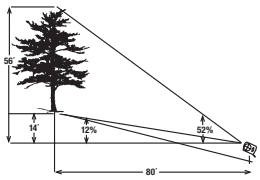
Using Percent Scale Clinometers to Determine:

Height measurements on level ground.



Using the percent scale and 80´ baseline (or other baseline convenient to you), follow these simple procedures. For this example, use the % scale. Back away from the tree the proper baseline distance. In this case, 80´. Sight the top of the tree (D) and read the % scale (ex. +63%). Sight the bottom of the tree (B) and read the % scale (ex. -7%). The total reading is 70% (63 + 7). To obtain tree height, simply multiply this percentage times your baseline distance. 70% x 80´ = 56' (tree height).

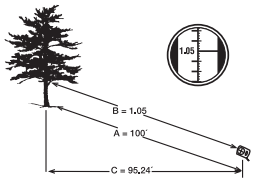
Height measurements on sloping ground.



Using the percent scale and 80´ baseline (or other baseline convenient to you), follow these simple procedures. When the base of the tree is ABOVE eye level, sight the top then sight the base. Subtract the two readings. This example: 52% - 12% = 40%. Then multiply 40% x 80´ = 32´ (tree height). When the base of the tree is BELOW eye level, sight the top then sight the base. Add the two readings. Then multiply by 80´ (baseline).

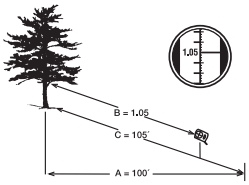
Using Secant Scale Clinometers to Determine:

Horizontal distance on sloping ground.



To find an unknown horizontal distance (C), simply divide the measured slope distance (A) by the secant value of the slope (B). This example: 100 ft. ÷ 1.05 = 95.24 ft. (horizontal distance). Use the percent scale to figure height.

Correct slope distance for a desired horizontal distance.



Correct slope distance (C) is determined by multiplying the required horizontal baseline distance (A) times the secant value of the slope (B). This example: 100 ft. x 1.05 = 105 ft. (correct slope distance).

For information on the use of the Secant Scale Clinometer with prisms, see page 80.

Forestry Suppliers' In-House Clinometer Repair Service

We can repair any clinometer unit on this page – regardless of condition – for only $78.95 plus shipping. Our factory certified reconditioning includes cleaning, calibration and a new capsule. Call us at 800-752-8460.

SUUNTO

Suunto® Clinometers

1316

Made in Finland

Manufacturer's Warranty 2 Year

ISO 9001 Certified DNV

Height, slope and vertical angle measurements made easy!

These versatile instruments can be used to measure heights of trees, towers, buildings, etc.; to measure slopes for grading or preliminary surveying; and to measure vertical angles for cellular and satellite installations and more.

Suunto Clinometers feature two scales in four configurations: Percent and Degrees, Percent and Topographic, 15m and 20m, and Percent and Secant.

Graduations - Degree: 0-90° in 1° units. **Percent:** 0 to 70% in 1% units, 72 to 150% in 2% units. **Topo:** 0 to ±200´ with a 66´ baseline. Scale readings can be estimated to 10 minutes or 1/5%, when readings are made around the zero level.

All Suunto Clinometers feature: Solid aluminum housing with jeweled bearing assembly. Damped scale for smooth, accurate readings. Parallax-free lens. 1/4˝ x 20 threaded tripod socket. Includes lanyard and black nylon case. **Dimensions:** 2-3/4˝ x 2˝ x 5/8˝. **Weight:** 4.2 oz.

Which Scale to Use:

Scale	Baseline Distance	Reads In
Topo	66 feet	Feet
15m	15 meters	Meters
20m	20 meters	Meters
Percent	Any distance in feet, yards, or meters	% of baseline distance you select

Suunto® Clinometers

SN	Model	Description		Wt.	Qty.	$	Cases: Rubber	Cases: Cordura	Cases: Leather
43830	PM5/360PC	Percent and degree scales. ±150%, ±90°. Cosines to 45° on back.		8 oz.	ea. 3+	**$145.25** **$136.25**	**37002**	**37004**	**37011**
43840	PM5/SPC*	Percent and secant scales. ±150% secant values x 100 – 100 to ±500. Percent/degree conversions on back.		8 oz.		**$146.25**	**37002**	**37004**	**37011**
43895	PM5/66PC	Percent and topographic scales. ±150%, ±200´ @ 66´ baseline. Percent/degree conversions on back.		6 oz.	ea. 3+	**$144.50** **$135.75**	**37002**	**37004**	**37011**
43897	PM5/1520	±35m @ 15m baseline, ±50m @ 20m baseline, respectively. 20m scale/degree conversions on back.	M	8 oz.		**$145.95**	**37002**	**37004**	**37011**
Suunto Clinometer Accessories									
37002		Rubber Protective Cover		1 oz.		**$14.95**			
37011		Leather Case (Fits all except clinometers with rubber covers)		2 oz.		**$10.25**			
37004		Cordura Case for all clinometers		1 oz.		**$12.95**			

Rubber Cover | Cordura Case | Leather Case

*Secant scale clinometer 43840 allows you to determine correct horizontal distances and compensate for slope when using the percent scale for height measurements. You can also eliminate prism rotation in point sampling.

Note: Since 43840 secant scale clinometer expresses secant of a slope times 100, you should initially divide the clinometer reading by 100 to get the correct secant value. For example, a clinometer reading of 110 has a correct secant value of 1.10.

M Metric

[search engine powered by magazooms.com]

Haglöf

Made in Sweden

1

Compass Reading

Clinometer Reading

2

3

4

1 Haglöf HCC Digital Compass/Clinometer

4845

Degree Reading

The HCC is an electronic inclinometer and a digital compass in one housing. Great for site survey in satellite installation, it can measure horizontal and vertical angles, as well as provide you with compass readings. Features an azimuth compass graduated from 0° - 360° in 1° increments with an accuracy to 2.5°. The compass also has magnetic declination and is easy to calibrate. The clinometer measures -90° to +90° and is graduated in 0.1° increments with accuracy to 0.2°. Switch from compass to clinometer with one push of a button. Made in Sweden.

HCC - Haglof Compass Clinometer, Degrees		3 oz.	**43900**	**$235.00**
			3+	**$225.00**
HCC - Haglof Compass Clinometer, Meter/Percent		3 oz.	**43901**	**$235.00**
			3+	**$225.00**

2 Haglöf HCH Digital Compass/Clinometer

4846

Combines an electronic clinometer, height meter and digital compass all into one! Small, accurate, fast and easy-to-use with single button operation! Heights can be measured from any distance - simply enter the distance to the tree, aim at the bottom of the tree (press button), then at the top (press button) and read off the height. The digital compass displays from 0-360 degrees in 1° increments, has magnetic declination and is easy to calibrate. Made in Sweden.

HCH - Haglof Compass Height, Feet/Degree	E	3 oz.	**43902**	**$265.00**
			3+	**$255.00**
HCH - Haglof Compass Height, Feet/Percent	E	3 oz.	**43903**	**$265.00**
			3+	**$255.00**
HCH - Haglof Compass Height, Meter/Degree	M	3 oz.	**43914**	**$265.00**
			3+	**$255.00**
HCH - Haglof Compass Height, Meter/Percent	M	3 oz.	**43915**	**$265.00**
			3+	**$255.00**

3 Haglöf HEC2 Electronic Clinometers

2274

Eliminate calculation errors!

These electronic clinometers provide accurate height and angle measurements quickly and easily. Height measurements can be taken from any distance that is measured and entered. Choose from these functions: DIST (distance setup and height measuring), HGT (height measuring), and DEG (angle measuring). Results are displayed once measurement is complete, and no manual counting is required. Lightweight yet rugged, the clinometers can withstand the toughest use in the field. These highly efficient instruments offer extremely low battery consumption and feature a low battery indicator and backlight. Four models to choose from.

Accuracy: ±0.2′; ±0.2° (depending on the accuracy of the distance entered). **Operating temperature:** -4°F to 120°F. **Power:** 1 AA battery (not included).

Haglöf HEC2 - Measures in feet and degrees	E	3 oz.	**43844**	**$199.95**
			3+	**$189.95**
Haglöf HEC2 - Measures in feet and percent	E	3 oz.	**43845**	**$199.95**
			3+	**$189.95**
Haglöf HEC2 - Measures in meters and degrees	M	3 oz.	**43846**	**$199.95**
			3+	**$189.95**
Haglöf HEC2 - Measures in meters and percent	M	3 oz.	**43847**	**$199.95**
			3+	**$189.95**

Note: Call for quote on larger quantities.

4 Haglöf HEC Electronic Clinometers

7922

These single-button electronic clinometers provide accurate angle measurements in either degrees or percent, depending on the model you choose. Lightweight yet rugged, the clinometers can withstand the toughest use in the field. The HEC has an extremely low battery consumption rate, and features a low battery indicator and backlight.

Accuracy: ±0.2°. **Operating temperature:** -45°F to 120°F. **Power:** 1 AA battery (not included).

Haglöf HEC, Degrees Only	3 oz.	**43823**	**$135.00**
		3+	**$125.00**
Haglöf HEC, Percent Only	3 oz.	**43824**	**$135.00**
		3+	**$125.00**

M Metric E English

[search engine powered by magazooms.com]

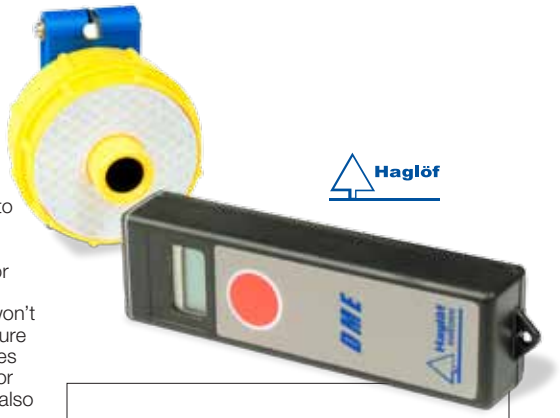
Haglöf DME 201 Cruiser with Built-In Prism Factors

1378

Save time and labor with this pocket-size, omni-directional, digital distance measurer!

The Forestor DME 201 uses ultrasonic pulses to determine distance, allowing you to walk 360° around the transponder and receive accurate measurements at the push of a button. Ideal for taking plot radius measurements, the DME is accurate even through thick underbrush and won't miss borderline trees. The DME 201 can measure distance in English or metric units and measures up to 60′/20m in ideal conditions in feet/10ths or m/cm with an accuracy of ±1%. The DME 201 also features a reverse prism function (BAF feature) which has built-in prism factors of 5, 10, 15, 20, 25, 30, 35, 40, 45 and 50 (English) and 0.5, 1.0, 2.0, 3.0 and 4.0 (Metric). The DME 201 will measure the 52.7′ plot radius for a 1/5 acre plot under normal conditions and can be easily calibrated. The distance measuring instrument uses one 9-volt battery, and the transponder uses one AA cell battery (both included). The Forestor DME 201 Complete Unit includes a measuring instrument, transponder, a plot center staff which extends to 54″L and retracts to 25″L, and a threaded adapter for mounting the transponder on the plot center staff or on a standard photographic tripod. When ordering the transponder only, both 09710 and 09711 are required for 360° operation.

Haglöf DME 201 Cruiser – Complete Unit	C	2 lbs.	**09725**	**$819.95**
			2+	**$779.95**
Distance Measuring Instrument	C	6 oz.	**09726**	**$669.00**
60° Transponder Only		5 oz.	**09710**	**$335.50**
360° Transponder Adapter		4 oz.	**09711**	**$83.95**
Monopod Staff		2 lbs.	**09712**	**$89.25**
9V Alkaline Battery, single		3 oz.	**02179**	**$3.20**
AA cell Alkaline Batteries, pack of 4		7 oz.	**02352**	**$3.25**



Integrated 1/4″ x 20 thread in the top of the handle

Forestry Suppliers Deluxe Plot Center Stick

1444

Versatile stick features sharpened point, soft rubber grip, and solid aluminum shaft. Hi-vis orange, it's easily seen in dense brush and can mark your plot center when timber cruising or conducting inventory work. Engraved Biltmore stick markings help you measure tree diameters from 10″ to 40″ and log heights from one to five logs. In addition, the stick features an integrated 1/4″ x 20 thread in the top of the handle. The included stud allows for easy adaptation when using the stick with instruments such as the Haglöf® DME Cruiser or Impulse® Laser Rangefinder. Can also be used as a hiking staff in difficult terrain.

Forestry Suppliers Deluxe Plot Center Stick	3 lbs.	**59706**	**$59.95**
		3+	**$54.95**

Haga Altimeter

1317

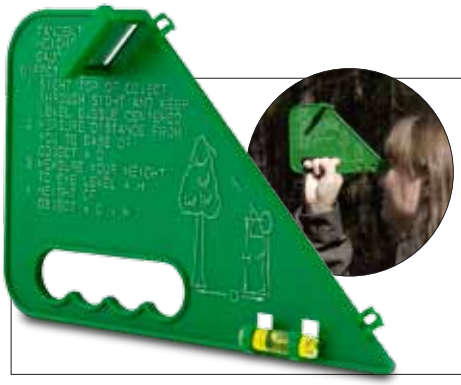
An optical rangefinder may be attached to the Haga Altimeter. Used with its multirange target, the Haga rangefinder enables you to determine quickly and precisely base length distances of 15, 20, 25 or 30 yards or meters. Complete instructions included with the altimeter, the optical rangefinder, and multirange targets.

Altimeter	C	1 lb.	**43890**	**$485.00**
Rangefinder	C	3 oz.	**43911**	**$195.00**
English Target		4 oz.	**43912**	**$49.50**
Metric Target		4 oz.	**43913**	**$49.50**
Pajaro Field Pack		8 oz.	**35730**	**$33.50**

Height and slope measurements are made simple with these six scales:

Scales	Required Baseline Distance	Measuring Range
1 chain = 66′	66′	-27′ to +144′
15	15 ft., yds., or m	-6 to +26 ft., yds., or m
20	20 ft., yds., or m	-8 to +34 ft., yds., or m
25	25 ft., yds., or m	-10 to +43 ft., yds., or m
30	30 ft., yds., or m	-12 to +52 ft., yds., or m
percent	any distance in ft., yds., or m	-40 to +150% of baseline distance

Spencer® Logger's Tapes page 78



Forestry Suppliers Tangent Height Gauge

1275

This mirror sighting height gauge is great for teaching students how to quickly determine tree heights! Easy to follow instructions are embossed onto its rugged plastic shell, detailing the gauge's four-step measuring method and height-finding formulas.

Forestry Suppliers Tangent Height Gauge	6 oz.	**36953**	**$19.75**
		6+	**$17.25**
		12+	**$14.50**

E English M Metric C Combination English and Metric

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Haglöf

Bluetooth® Capable

Haglöf Vertex IV Hypsometer

1377

Bluetooth-enabled measurements in feet or meters

- Take up to 6 heights on a single tree.
- No set distance required to obtain height.
- Shoots through thick underbrush.
- Can use with the 360° transponder to take plot measurements.

Accurate, dependable tree height measurements even in cold, dry climates! The Haglöf Vertex hypsometer fits in your pocket and allows measurement through thick vegetation in either metric or English units. Fasten the transponder to the tree to be measured, look through the sight and aim the crosshairs at the transponder. Innovative cross sight provides precise measurements and eliminates inaccurate measurements due to the vertical sighting of the object. Up to six heights on a single tree can be taken, with no set distance to obtain the heights. The hypsometer displays three numbers – distance, angle, and horizontal distance to the transponder. The Vertex also features a reverse prism function (BAF feature) which has built-in prism factors of 5, 10, 15, 20, and 40 (English) and 0.5, 1.0, 2.0, 3.0, and 4.0 (Metric). The Vertex is easily calibrated and should be recalibrated daily for best accuracy. In addition, the Vertex is Bluetooth®-capable for easy transfer of measuring results. Features a reinforced alphanumerical display, durable aluminum housing, and sealed electronics. Complete user instructions included. The Vertex is available with a either a 60° or a 360° transponder. The 60° transponder records measurements only from in front of the transponder. The more versatile 360° transponder allows you to walk 360° around the transponder and receive accurate distance measurements for determining plot radius at the push of a button. The 60° Package (09707) includes the hypsometer and transponder only. The 360° Package (09708) includes hypsometer, transponder, plot center staff, and a threaded 360° adapter.

Hypsometer/Transponder 60° Package	C	1 lb.	**09707**	**$1743.00**
			2+	**$1642.00**
Hypsometer/Transponder 360° Package	C	3 lbs.	**09708**	**$1859.00**
			2+	**$1758.00**
60° Transponder Only		5 oz.	**09710**	**$335.50**
360° Transponder Adapter, (Replacement for 09708 and an option for 09707)		4 oz.	**09711**	**$83.95**
Monopod Staff, (Replacement for 09708)		2 lbs.	**09712**	**$89.25**
AA cell Alkaline Batteries, pack of 4		7 oz.	**02352**	**$3.25**

Note: Vertex IV hypsometers and transponders are interchangeable with older units.

Specifications

		Vertex IV
Height Range		0 to 999m
Height Resolution		0.1m
Distance Resolution		0.01m
Angle		-40° to +90°
Dimensions	Hypsometer	3.2″ x 2.0″ x 1.2″
	Transponder	2.5″ x 1.6″
Power	Hypsometer	1 AA (included)
	Transponder	1 AA (included)

C Combination English and Metric

Haglöf

Bluetooth® Capable

Forestry Suppliers Plot Center Sticks page 67

Haglöf Vertex Laser 5 Hypsometer

2722

Combining a laser, ultrasound, and tilt sensor, this precision instrument provides accurate and reliable distance, height, and angle measurements. Use the laser or ultrasound alone as a rangefinder or in combination with the tilt sensor to measure heights and angles. To achieve more accurate distance results at shorter distances, even through thick vegetation, use the ultrasonic feature along with the transponder. Ultrasonic measurement provides results in meters or feet and allows measurements to be obtained even when a clear line of sight to the target is not available. The Vertex Laser 5 is Bluetooth®-capable and also features a reverse prism function (BAF feature) which has built-in prism factors of 5, 10, 15, 20, 25, 30, 35, 40, 45, and 50 (English) and 0.5, 1.0, 2.0, 3.0, 4.0, 5.0, 6.0, 7.0, 8.0, and 9.0 (Metric). The laser function allows you to work without a transponder and take measurements at longer distances in meters or feet. When using the laser, the transponder can be used as a visible reference point.

Laser: Distance, maximum 700m/2,000 ft. (depending on target); Resolution, 0.1m/0.1 ft. Accuracy, 4 cm/0.1 ft. **Ultrasound:** Distance, 30m/98 ft. or better; Resolution, 0.01m/0.1 ft.; Accuracy, 1% or better when calibrated. **Height:** Range, 0 to 999 m/ft.; Resolution, 0.1 m (0.1 ft.). **Angle:** Range, -55° to 85°; Resolution, 0.1°; Accuracy, ±0.1°. **Operating range:** -4°F to 113°F (-20°C to 45°C). **Power:** Vertex Laser 5, built-in rechargeable Lithium-ion battery, 3.7V; Transponder, 1 AA battery (included). **Weight:** Vertex Laser 5, 8.6 oz.; Transponder, 5 oz. **Dimensions:** Vertex Laser 5, 3.7″ x 2.5″ x 2.8″; Transponder, 2.8″ dia.

Vertex Laser 5, 360° Kit, Includes the unit, charging cable, transponder, 360° Adapter, monopod, and aluminum case.	6 lbs.	**09722**	**$3025.00**
Vertex Laser 5, 60° Kit, Includes the unit, charging cable, transponder, and aluminum case.	5 lbs.	**09720**	**$2875.00**

Haglöf L5 Laser Only Hypsometer

2722

Ideal for long-distance measuring in open terrain. The same features as the Vertex Laser 5 Hypsometer with the exception of ultrasound. Measure distances, heights, and angles quickly and accurately. Also includes a Delta Height Function to calculate straight line between two fixed positions, and a third point, for example at a power line, where the line sag is closest to the ground. Infrared or Bluetooth® transfer of measurements.

Laser: Distance, maximum 700m/2,000 ft. (depending on target); Resolution, 0.01m/0.1 ft.; Accuracy, 4 cm/0.1 ft. **Height:** Range, 0 to 999 m/ft.; Resolution, 0.1 m/0.1 ft. **Angle:** Range, -55° to 85°; Resolution, 0.1°; Accuracy, ±0.1°. **Operating range:** -4°F to 113°F (-20°C to 45°C). **Power:** built-in rechargeable Lithium-ion battery, 3.7V. **Weight:** 8.6 oz. **Dimensions:** 3.7″ x 2.5″ x 2.8″.

L5 Laser Only Hypsometer	4 lbs.	**09742**	**$2145.00**

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Criterion™ RD 1000 Electronic BAF-scope/Dendrometer

3873

This revolutionary measurement device features an integrated tilt sensor which allows collection of diameter data at any point up the stem and also determines the height at which a specific diameter is reached. The Basal Area Factor (BAF) routine indicates "In" and "Out" trees for a full range of sampling factors. In addition, the status of borderline trees can be determined by entering a distance from a rangefinder (not included) into the Criterion RD 1000 through the input serial port or manually via the keypad. A second output serial port allows for data transfer to an external data collector (not included). To improve measurement resolution at greater distances, use the included 2.4x magnifier. The in-scope LED display features variable brightness for easy reading in all lighting conditions. Water and dust resistant, the unit also features a 1/4″x 20 thread mount for attachment to a monopod or tripod. Carrying case, lens cloth, neck strap, and manual included.

BAF measurement range: 1 to 127 ft2/acre (0.2 to 39.0 m2/hectare). **Diameter accuracy:** ±1/4″ up to 80′ (±6 mm up to 24 m). **Diameter measurement range:** 2″ to 100″ (5 cm to 254 cm). **Inclination accuracy:** ±0.1° typical. **Inclination measurement range:** ±90°. **Height measurement resolution:** 0.1′ (3 cm). **Optics:** normal, 1x; magnified, 2.4x. **Data communications:** serial RS 232 input/output. **Operating temperature:** -22°F to 140°F (-30°C to 60°C). **Power:** 2 AA or 1 CRV3; 3.0V DC nominal (included). **Dimensions:** 2.75″W x 2″D x 6.5″L. **Weight:** 1.1 lbs.

Criterion RD 1000 Electronic BAF-scope/ Dendrometer	C	3 lbs.	**43855**	**$1595.00**
4-pin to 4-pin Cable Connects Criterion RD 1000 to TruPulse		1 oz.	**90997**	**$53.25**

Leica® DISTO™ D810 touch Laser Distance Measurer

8733

38960

The world's first laser distance meter with a touchscreen, the D810 touch allows for easy, intuitive operation! In addition, the innovative "measure with a picture" feature determines width, height, area, and diameter of an object using a single measurement. The specific dimension is indicated on the touchscreen using two arrows in the picture, and the measured value is displayed. A built-in camera captures pictures or screen shots which can then be downloaded to your computer via USB interface. For added flexibility, Bluetooth® Smart supports the free Leica DISTO sketch 2.0 app that allows measurement data to be transferred to any iOS or Windows 8 program. The sketch app also lets you create scaled sketches, dimension objects in a photo, and check drawings. An integrated digital Pointfinder with 4x zoom ensures accurate measurements even in unfavorable light conditions. The D810 touch also features a 360° tilt sensor, Smart Horizontal Mode™, and height tracking. IP 54 rated. Includes holster, hand loop, USB charger with four plugs, USB cable, manual/safety instructions on CD, and quick start guide.

Range: 2″ to 650′ (0.05m to 200m). **Accuracy:** ±1/25″ (±1mm). **Units of measure:** meters, feet, inches. **Power:** Li-ion rechargeable. **Tripod Thread:** Yes. **Dimensions:** 6.5″ x 2.4″ x 1.2″. **Weight (including batteries):** 8.4 oz.

Leica DISTO D810 touch Laser Distance Measurer	C R	1 lb.	**38959**	**$849.00**
New! Leica DISTO D810 touch Package, Includes Leica DISTO D810 touch, tripod, tripod adapter, and rugged carrying case.	C R	4 lbs.	**38960**	**$1079.00**

More Leica® Disto™ Distance Measurers pages 546 and 547

Forge Echo 912 Forestry Package

4662

Measure heights, obtain distances, take GPS coordinates, and collect data with one rugged instrument!

This revolutionary data collector combines a precision GPS, a clinometer tool that calculates slope and vertical angles, and groundbreaking echolocation technology for accurate, easy measurement of elevation changes, distance, and tree heights. In a normal forest setting, the maximum distance for the echolocation function is 75 feet when using the transponder with the 360° adapter and 125 feet when using the transponder alone. An integrated 5 megapixel camera allows for convenient geo-tagging. The Forge Echo 912 features 8 GB of on-board storage, an 800 MHz processor, and both Bluetooth® and Wi-Fi capabilities. Waterproof, shockproof, and dustproof, the device comes standard with a Windows Mobile® 6.5 Classic operating system, a 3.5″ color display, and a full keyboard. Includes transponder, 360° transponder adapter, and transponder pole. Two-year warranty from the manufacturer.

GPS - Receiver Type: 50 channels, GPS L1 frequency, C/A code. **SBAS:** WAAS, EGNOS, MSAS, GAGAN. **Time to Fix:** Cold Start, 29s; Warm Start, 29s; Hot Start, <1s. **Accuracy:** 1 to 3 meters (autonomous); 1 to 2 meters (SBAS); <1 meter (NTRIP/eGPS).

Processor: 800 MHz. **Non-Volatile Memory:** Flash 8 GB. **Volatile Memory:** 512 MB SDRAM. **Expansion Slot:** Micro SD (up to 32 GB). **Display:** 3.5″ color LCD BLANVieW Transmissive 480 x 640 px (VGA). **Camera:** 5 MP auto focus with LED light; Resolution, 1280 x 960, 2048 x 1536, 2592 x 1944. **Touch Panel:** Analog resistance type. **Keypad:** 30 keys including 7 soft function, alphanumeric, camera, power on/off, Windows. **Visual Indicator:** Tricolor LED, software-controlled. **Audible Beeper:** 80dBa SPL @ 10cm, 3.5kHz, 8 to 10 kHz programmable. **Bluetooth:** Bluetooth Class II, v2.1 EDR. **Wi-Fi:** IEEE 802.11 b/g 54 Mb/s. **Main Battery:** Lithium-ion, 3.7V, 4,000 mAh. **Interface:** USB OTG, RS232. **Operating Temperature:** -4°F to 140°F (-20°C to 60°C). **Dimensions:** 7.9″x 3.7″x 1.7″. **Weight:** 15.6 oz. with battery.

Forge Echo 912 Forestry Package	4 lbs.	**09735**	**$2595.00**
Optional High-Vis Orange Cordura Case and Strap	5 oz.	**09733**	**$74.95**
Replacement Plastic Transponder Cone	1 oz.	**09736**	**$55.00**
Replacement Transponder	4 oz.	**09737**	**$250.00**
Replacement Telescoping Transponder Pole	10 oz.	**09738**	**$45.00**
Replacement Lithium Battery	3 oz.	**09734**	**$74.95**

C Combination English and Metric
R Cannot be sold outside of North America

[search engine powered by magazooms.com]

Nikon® Forestry PRO Laser Rangefinder/Hypsometer

7852

Perfect for foresters, biologists, arborists, and other professionals who depend on reliable range and height measurements!

The ultimate forestry tool, this precision rangefinder/hypsometer provides accurate range, height, and angle measurements. The Forestry PRO features a three-point height measurement function that allows for accurate measurements even in dense areas of thick brush. Provided with a clear line of sight to a point on the stem, the unit calculates horizontal distance, then captures two other points to create an angle, and accurately calculates height. First Target Priority Mode allows you to range small objects and obtain an instant reading. Distant Target Priority Mode displays the range to the farthest target among the targets measured. The Forestry PRO features 6x magnification and provides several measurement readout options including actual distance, angle compensated distance (horizontal distance), angle (degrees), and height. Results are displayed in yards, meters, or feet. Featuring both an internal display and an external LCD display, reading the measurement data is easy. The Forestry PRO is waterproof and comes complete with a field case, quick start guide, and battery.

Range: 11 to 550 yds.; 10 to 500m; 33 to 999 ft. **Resolution:** 0.5 yds.; 0.5m; 1 ft. **Accuracy:** ±1/2 yd. out to 99 yds.; ±1 yd. from 100 to 550 yds. **Power:** one 3V CR2 battery (included).

Nikon® Forestry PRO Laser Rangefinder/Hypsometer	1 lb.	**91140**	**$399.95**
CR2, 3V Lithium Battery, single	1 oz.	**92490**	**$8.75**

Opti-Logic Laser InSight™ Hypsometers and Rangefinders with Internal LED Display

7101

Made in USA

Manufacturer's Warranty 2 Year

Accurate, affordable measurements (heights, distances, and angles) in seconds – in feet, yards, or meters!

InSight™ Rangefinders with Internal LED Display

Accurately measures distances in feet, meters, or yards quickly using an eye-safe laser. This economical, reliable rangefinder has simple, one-button operation. An audible target acquisition indicator emits a chirping sound as you home in on target. Audible target indicator can be turned off. Distance measurements are shown on both external and internal displays. Features include LED red dot sighting system, low battery indicator, and ergonomic plastic shell. Completely eyesafe and conforms to all provisions of US21 CRF 1040.1 (CDRH Class I Laser Product). RoHS compliant.

Accuracy: ±3 ft. **Power:** 9 Volt battery. **Dimensions:** 4-1/4″ x 5″ x 1-7/8″.

400XL Laser Rangefinder, Range: 400 yds.; 999 yds. with reflective target	C	1 lb.	**91097**	**$244.95**
1000XL Laser Rangefinder, Range: 1,000 yds.; 1,500 yds. with reflective target	C	1 lb.	**91397**	**$263.95**
9V Alkaline Battery, single		3 oz.	**02179**	**$3.20**

InSight™ Hypsometers with Internal LED Display

The internal electronic tilt sensor provides quick vertical angle measurements for easy determination of heights of trees and other objects. Each precision instrument measures line of sight distance, horizontal distance, and two- and three-point height as well as reading angles in degrees and percent. Measurement results are shown on both external and internal displays so that you can continue looking through the viewfinder and still see angle, distance, and height measurements. Housed in a rugged injection-molded plastic shell, the hypsometer/rangefinder offers simple, one-button operation. Using the red dot aiming system, simply aim at a reference point on the object to determine the distance to the reference point. Next, aim the instrument at the top of the object and then at the base to obtain an angle measurement. The height from the base to the top of the object is automatically calculated and displayed in feet, meters, or yards. Other features include: LED red dot sighting system, high tech hidden lens design, and low battery indicator. Completely eyesafe and conforms to all provisions of US21 CRF 1040.1 (CDRH Class I Laser Product). RoHS compliant.

Units: Distance: feet, meters, or yards; **Angle:** degrees or percent grade. **Resolution:** 0.5′. **Accuracy: Distance:** ±1 yd.; **Angle:** ±0.2°; **Height:** ±1 ft. (plus 5% of reading). **Angle resolution:** 0.5°. **Power:** 9 Volt battery (included). **Weight:** 11 oz. **Dimensions:** 4″ x 5-1/4″ x 1-3/4″.

400LH Laser Hypsometer, Range: 400 yds.; 999 yds. with reflective target	C	1 lb.	**91125**	**$249.95**
1000LH Laser Hypsometer, Range: 1,000 yds.; 1,500 yds. with reflective target	C	1 lb.	**91047**	**$329.95**
9V Alkaline Battery, single		3 oz.	**02179**	**$3.20**

Leica® DISTO™ E7100i Laser Distance Measurer
page 547

Trimble LaserAce® 1000 Rangefinder with Digital Compass

3845

Bluetooth® Capable

All-in-one height, diameter, and log volume measurement.

Capable of determining canopy spread and horizontal missing distances, this lightweight, handheld hypsometer uses Class I eye safe laser technology to measure tree diameters and log volumes at the touch of a button and also features a digital compass! Designed for one-person operation, you simply point and shoot. The LaserAce measures a target's distance, elevation, height, and diameter as well as slopes and gradients. The unique aiming and diameter scope allows you to easily take remote measurements. The LaserAce features a two- and three-point mode for leaning trees as well as an onboard multifunction computer which stores results (up to 3,000 trees) for later viewing or downloading to your PC or PDA using the Bluetooth® (or RS232) data link. Water and dust resistant to IP 66.

Hypsometer Range: 1 km (3,280′) to prisms; 150 m (500′) with no reflective target; 600 m (2,000′) with reflector; ±70° from horizontal. **Digital Compass Range:** 0 to 359.9°. **Hypsometer Accuracy:** 5 cm (2″); 0.2° at level. **Digital Compass Accuracy:** ±1°. **Power:** 7.2V lithium ion rechargeable batteries (normal use, 8 hours of power). **Weight:** 14 oz. **Dimensions:** 4.33″L x 3.94″W x 1.97″H.

LaserAce 1000 Rangefinder	C	3 lbs.	**59051**	**$2340.00**

C Combination English and Metric

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1 TruPulse® 200L Rangefinder/Hypsometer

4707

Affordable and reliable, the TruPulse 200L measures up to 3,280 feet (1,000 meters) without a reflector and offers an accuracy of ±3 feet (±1 meter) to any target at any range. Results are displayed in feet, yards, or meters on the in-scope LCD display. The rangefinder/hypsometer features a built-in inclinometer and provides vertical and horizontal distance measurements as well as slope distance and inclination measurements. The TruPulse 200L features flexible, two- or three-point height routines and two-dimensional Missing Line routine with auto sequencing. Choose from four advanced target modes: Closest (distinguishes near and far objects and identifies the closest target), Farthest (allows you to lock on the farthest target and shoot distant features through brush and foliage), Continuous (provides constant updates while locking on multiple targets), or Filter mode. The rugged housing is IP 54 rated for water- and dust-resistance.

Distance: Accuracy, ±3 ft. (±1 m) to any target at any range; Resolution, 1 ft./yd./m; Range, 3 ft. to 3,280 ft. (1 m to 1,000 m) typical to non-reflective targets, 3 ft. to 5,740 ft. (1 m to 1,750 m) to reflective targets; Measures in feet, yards, and meters. **Inclination:** Accuracy, ±0.5°; Resolution, 0.5°, 1%; Range, ±90°; Measures in degrees and % slope. **Magnification:** 4x. **Eye Safety:** FDA Class I (CFR 21). **Operating Temperature:** -4°F to 140°F (-20°C to 60°C). **Power:** 3.0V DC nominal; 1 type CR123A battery. **Battery Life:** 8 hours continuous use. **Dimensions:** 4.5″ x 2″x 4″. **Weight:** 10 oz.

TruPulse 200L Rangefinder/Hypsometer	C	15 oz.	**91568**	**$449.00**
Foliage Filter, Use to measure through foliage and detect pulses returned from a reflective target only		1 oz.	**90998**	**$57.50**

1

LASER TECHNOLOGY INC Measurably Superior™

TruPulse® Rangefinder/Hypsometers

3872

Bluetooth® Capable

Crystal clear optics and outstanding ±1 ft. accuracy!

Compact and lightweight, TruPulse rangefinders/hypsometers allow you to view through the lens so that you can pinpoint the laser directly along your line of sight. And because measurements are displayed through the viewfinder, you never have to take your eyes off the target.

The TruPulse can measure distances up to 3,280′ (1,000m) without a reflective target. Results are displayed in feet, yards, or meters. An integrated tilt sensor allows you to measure horizontal or vertical distance and calculate an object's height instantly by using the built-in three-shot routine. The "Closest" operating mode distinguishes near and far objects and identifies the closest target, and the "Farthest" mode allows you to lock on the furthest target and shoot distant features through brush and foliage. "Continuous" mode provides constant updates while locking on multiple targets.

The TruPulse also features a "Brush Filter" mode. The TruPulse diopter is adjustable for comfortable viewing – even for eyeglass wearers. The housing is IP 54 rated for water- and dust-resistance, and features an RS 232 serial port to download data (Bluetooth® capability also available). Includes carrying case, lens cloth, neck strap, and operating manual.

TruPulse® Accessories

Foliage Filter, Use to measure through foliage and detect pulses returned from a reflective target only	1 oz.	**90998**	**$57.50**
4-pin to 4-pin Cable, Connects Criterion RD 1000 to TruPulse	1 oz.	**90997**	**$53.25**
Data Cable, For TruPulse Series Instruments	1 oz.	**90992**	**$73.50**

2 TruPulse® 200 Rangefinder/Hypsometer

Distance: Accuracy, ±1′ (±0.3m); Resolution, 0.5′ (0.1m); Range, 0 to 3,280′ (1,000m) typical, 6,560′ (2,000m) maximum to reflective target; Measures in feet, yards, and meters. **Inclination:** Accuracy, ±0.25°; Range, ±90°. **Magnification:** 7x. **Field of view:** 330′ at 1,000 yds. **Eye relief:** 21mm. **Eye safety:** FDA Class I (CFR 21). **Communication:** serial, via wired RS 232. **Operating temperature:** -4°F to 140°F (-20°C to 60°C). **Power:** 3.0V DC nominal, 2 AA batteries, or 1 type CRV3 (not included). **Dimensions:** 5″ x 2″ x 3.5″. **Weight:** 8 oz.

TruPulse 200 Rangefinder/Hypsometer	C	1 lb.	**91182**	**$795.00**
TruPulse 200 Rangefinder/Hypsometer with Bluetooth	C	2 lbs.	**92855**	**$895.00**

2

TruPulse® 360° Rangefinder/Hypsometer

In addition to the features of the TruPulse 200, the TruPulse 360° includes a built-in digital compass sensor which allows you to shoot from any angle. TruVector™ technology provides the best possible compass accuracy regardless of the laser's orientation. The instrument can be tilted or rolled – even used upside down – making the TruPulse 360° ideal for taking measurements in difficult areas. The TruPulse 360° also features a calibration warning, and can be easily calibrated in the field. **Compass range:** 0 to 359.9°. **Compass accuracy:** ±1° typical.

TruPulse 360° Rangefinder/Hypsometer	C	2 lbs.	**92856**	**$1595.00**
TruPulse 360° Rangefinder/Hypsometer with Bluetooth	C	2 lbs.	**92857**	**$1695.00**

3

3 TruPulse® 360°R Rangefinder/Hypsometer

The ultimate in rugged functionality! Offering the same features as the TruPulse 360°, the 360°R utilizes a horizontal, binocular-style design that is easy to handle and a rugged, waterproof housing that provides excellent protection in harsh conditions. Waterproof to IP56. Bluetooth® capable.

TruPulse 360°R Rangefinder/Hypsometer with Bluetooth	C	1 lb.	**91567**	**$1795.00**

4 TruPulse® 200X Rangefinder/Hypsometer

The TruPulse 200X calculates horizontal and vertical distances as well as slope distance and inclination. This precision rangefinder/hypsometer obtains distance measurements up to 6,233 feet (1,900 meters) without a reflector, provides ±2″(±4 cm) accuracy, features a built-in inclinometer, and offers on-board routines (three-point height calculations and two-dimensional Missing Line). A bright red LED display provides outstanding visibility in all lighting conditions, and measurements are shown in feet/inches, yards, or meters/centimeters. TruTargeting automatically provides the best possible accuracy and acquisition distance to a given target. Choose from four advanced target modes: Closest (distinguishes near and far objects and identifies the closest target), Farthest (allows you to lock on the farthest target and shoot distant features through brush and foliage), Continuous (provides constant updates while locking on multiple targets), or Filter mode. The waterproof housing is IP56 rated for impact- and dust-resistance.

Distance: Accuracy, ±2″ (±4 cm) to typical targets, ±1 ft. (±30 cm) to distant or weak targets; Resolution, 1″/0.1 yd./1 cm; Range, 0 to 6,233 ft. (1,900 m) typical to non-reflective targets, 0 to 8,200 ft. (2,500 m) to reflective targets; Measures in feet/inches, yards, and meters/centimeters. **Inclination:** Accuracy, ±0.1° typical; Resolution, 0.1°, 0.1%; Range, ±90°; Measures in degrees and % slope. **Magnification:** 7x. **Field of View:** 330 ft. at 1,000 yds. (100 m at 915 m away). **Eye Safety:** FDA Class I (CFR 21). **Communication:** Serial port and Bluetooth. **Operating Temperature:** -4°F to 140°F (-20°C to 60°C). **Power:** 3.0V DC nominal; 1 type CR123A battery. **Battery Life:** 12 hours continuous use. **Dimensions:** 5″ x 2″ x 4.5″. **Weight:** 13.5 oz.

TruPulse 200X Rangefinder/Hypsometer	C	2 lbs.	**91569**	**$1795.00**

4

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Spiegel Relaskop®

1379

The Precision Mechanical Tool of Professional Foresters

Used in variable plot and Three P sampling. American Scale reads in English units (sq. ft./acre, inches, feet). Use where trees are smaller than 96″ dbh on level or steep terrain. Metric Scale reads in metric units (sq. m/hectare, centimeters, meters). Excellent for a variety of forest conditions and tree sizes. Wide Scale is designed for metric measurements (diameter measurements convert to inches or centimeters). Recommended for trees larger than 244 cm (96″) dbh. Works on level or sloping terrain. CP Scale is ideal when metric or English measurements are desired (basal area in sq. m/hectare only). Leather case and illustrated booklet included.

American Scale Relaskop	E	1 lb.	**43850**	**$2056.50**
Metric Scale Relaskop	M	1 lb.	**43860**	**$2399.75**
Wide Scale Relaskop	M	1 lb.	**43865**	**$2399.75**
CP Scale Relaskop	C	1 lb.	**43870**	**$2399.75**
Replacement Leather Case		5 oz.	**43869**	**$15.95**

Leather Case Included

Relaskop Accessories

54″ Jacob Staff –

Precision turned hardwood with steel tip (Relaskop requires 43866)

54″ Jacob Staff	4 lbs.	**37380**	**$85.50**

Ball Joint Adapter –

For attaching Relaskop to Jacob Staff

Ball Joint Adapter	6 oz.	**43866**	**$197.00**

Replacement Windows

Clear Replacement Window	1 oz.	**43874**	**$17.25**
Frosted Replacement Window	1 oz.	**43875**	**$17.95**

- **A** Viewfinder
- **B** Tiltable sun shade
- **C** Wide angle exit window
- **D** Windows for admitting light to illuminate interior scales
- **E** Rugged cast aluminum housing
- **F** Pendulum brake on/off button
- **G** Threaded socket for attachment to Jacob staff or tripod

American Scale

Metric Scale

Spiegel Relaskop Specifications

Measurement	English	Metric	Wide Scale	CP
Basal Area*	SF/acre 5, 10, 20, 40 BAF	m^2/hectare 1, 2, 4 BAF	m^2/hectare 1, 4, 9, 16, 25, 36, 49, 64, 81, 100, 121, 144 BAF	m^2/hectare 1, 2, 3, 4, 9, 16, 25, 49, 64, 81 BAF
Tree Diameter*	In.: to 36″ @ 33′ baseline 72″ @ 66′ 108″ @ 99′ 144″ @ 132′	cm: to 60cm @ 15m baseline 80cm @ 20m 100cm @ 25m 120cm @ 30m	Relaskop Units: Convertible to cm or inches§	Relaskop Units: Convertible to cm or inches§
Tree Height	Ft.: to +180′ w/ topo scale to any height in feet or meters w/ % scale (For sloping ground, scale reads -120′ to +180′)	m: to +55m w/ 20m scale +70m w/ 25m scale +80m w/30m scale**	m: to +30m w/ both 18m and 20m scales (For sloping ground, both 18 and 20m scales read -27 to +30m)	%: -170 to +270 of horizontal baseline distance in any unit of measure
Vertical Angles	%: -170 to +270 Deg.: -60 to +70	Metric Units: Convertible to % (-180% to +280%) or Degree (-60° to +70°)	%: -170 to +270 Deg.: -60 to +70	%: -170 to +270 Deg.: -60 to +70
Slope	%: -170 to +270	Metric Units: Convertible to % (-180% to +280%)	%: -170 to +270	%: -170 to +270
Range (Distance)	Ft.: 33′ to 132′ in multiples of 33′. Optional prism rangefinder and target available. See ordering info.	m: 15m to 30m in multiples of 5m. Optional prism rangefinder and target available. See ordering information.	Ft./m: Using optional prism rangefinder and target. See ordering information.	Ft./m: Using optional prism rangefinder and target. See ordering information.
66′ Slope Correction	Ft.: 66′ to 93′ in 1′ increments†	—	—	—
Corr. Pct.	—	—	—	-50% to +50%
Girard Form	Yes	—	Yes	Yes
Form Height	—	Yes	—	Yes

* All readings automatically slope-corrected.
† To find 66′ horizontal baseline, sight on tree at "eye level," read scale, measure that distance from tree in that direction.
** For sloping ground, 20m scale reads -35m to +55m, 25m scale reads -45m to +70m, 30m scale reads -52m to +80m.
§ On Wide Scale and CP Scale models, each Relaskop Unit band (RU) equals a diameter which is 2% of the horizontal baseline distance (e.g., at 18m baseline, each RU = 2% of 18m = 36 cm. A tree measuring 5 RU's = 5 x 36 cm = 180 cm.).

E English
M Metric
C Combination English and Metric

Relaskop Repairs

Forestry Suppliers, Inc. can repair or replace any part of your Relaskop (except cracked housings) and can calibrate your Relaskop to ensure precise, accurate readings.

Current minimum charge for repair work is $85.00, which covers replacement of any minor internal parts, complete cleaning of internal working parts and calibration of the instrument. If other repairs are necessary, we will provide an estimate of additional charges. All Relaskop parts and workmanship are guaranteed for 90 days.

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Haglöf Digitech Professional II Computer Caliper

4527

Haglöf

Bluetooth® Capable

The DPII is a lightweight, versatile and super efficient measuring caliper, adapted for timber measuring, log scaling, and standing tree inventory. The jaws are designed for comfortable use in narrow spaces such as timber stacks and dense tree branches. Use the Calipers SmartScale™ equipped with a remote enter button as a stand-alone unit, sending diameter data wirelessly to the terminal for storage and processing. The terminal can be mounted on the caliper or worn on the wrist making measuring vegetation and branches in thick areas and where logs are stacked in piles easier. Other features include: built-in USB communication; Serial RS232 communication; built-in Bluetooth®; built-in clinometer function; high visibility graphic display with built-in light; and secure data storage with industrial SD-card protected against cold, heat and impact. Computer Terminal is included with the Caliper. Software sold separately.

Memory: 1GB Flash File System non-volatile high security. 1Mb high-speed RAM. **Temperature:** Min -4°F to +140°F (-20°C to 60°C). **Battery:** Chargeable Li-ion, USB-interface charge. **Communication:** USB 2.0 MSD, Bluetooth® (SPP, OPP), IR, External serial port via adapter, USB (CDC) via adapter. **Durability:** IP67 Moist/Dust Resistant. **Classification:** FPA and PTB; FCC: FCC, CE, IP67.

DPII 18″ w/Radio Enter Button	7 lbs.	**59748**	**$3050.00**
DPII 24″ w/Radio Enter Button	8 lbs.	**59754**	**$3090.00**
DPII 30″ w/Radio Enter Button	10 lbs.	**59762**	**$3125.00**
DPII Computer Terminal with Bluetooth	4 lbs.	**59747**	**$1335.00**
Digitech Tape, For log scaling and harvester calibration work, or as diameter tape with the Digitech Terminal. Uses caliper terminal battery and display. Measuring wire extends to approximately 7.5m/7 yds. Built-in brake prevents wire from retracting too quickly. Accuracy: ±5mm/0.2″ at max. length.	1 lb.	**59765**	**$385.00**
DP DME Measuring Kit, Includes the DP DME. a Transponder, a 360° Adapter, and a Monopod Staff. Uses proven ultra sound technology to offer accurate and quick distance measuring results from the center of the sample plot. Paired with data from the computer caliper on the tree diameter, the DME determines if a tree is inside or outside the plot. Accuracy: 1% or better when calibrated. Distance: 20m/60′ or better.	4 lbs.	**59777**	**$785.00**

TIMS Software – Easy to use timber inventory data collection software. Use to collect forest inventory data, scale logs, or measure piles of timber in a wood yard. Integrate a Bluetooth GPS to log plot locations or measure tract areas. Set up your own species list, grades and products. Set bark thickness and volume forms by species. Output your data into multiple formats compatible with a wide range of other programs including Google Earth.

TIMS Software ▲	1 oz.	**34210**	**$280.00**

Versio DP Software – Install on the DPII Computer Caliper for use with the Versio Builder Software.

Versio DP Software ▲	1 oz.	**34212**	**$280.00**

Versio Builder Software – Install on your desktop computer to build your own data collection system for the DPII Computer Caliper. No programming experience necessary. Simply create a new file then use menus to define and organize the variables you want to measure. Transfer your custom program to the caliper and begin collecting data. Versio DP Software required.

Versio Builder Software ▲	1 oz.	**34214**	**$280.00**

LogScale DP Software – LogScaleDP allows you to quickly scale and compute volumes and values of logs. The software can handle both tree length and cut-to-length logs. Requires HMS Desktop Logscale.

LogScale DP Software ▲	1 oz.	**34211**	**$280.00**

TCruise DP Software – TCruiseDP is the compact field version of TCruise designed to run on the DPII caliper. Upload pre-defined templates customized to your exact cruising specifications. Integrate a Bluetooth GPS and navigate to your plots in the field. TCruise DP and the DPII caliper integrate synergistically to provide unprecedented levels of precision, accuracy and efficiency in timber cruising. Requires HMS Desktop Timbercruise.

TCruise DP Software ▲	1 oz.	**34215**	**$280.00**

LatinTax DP Software – LatinTax DP is a classic, simple software for inventory of standing trees. It is easy to work with and understand, and covers the basic needs for a complete fact collection of reliable tree data. Includes thousands of lists, plots and trees to enable you to collect information on location, plot, diameter, quality, heights, etc. Also allows direct input of height readings from the Haglöf Vertex or Haglöf Vertex Laser hypsometers. Tested and approved by independent operators in Europe and South America.

LatinTax DP Software ▲	1 oz.	**34213**	**$280.00**

E English

▲ **Note:** Non-returnable if opened or seal is broken.

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Haglöf Vertex IV Hypsometer page 68

Plastic Caliper
1388

Use this durable caliper to measure the size of a tree up to 7″ diameter! Fits easily into your pocket. The English scale reads from 0 to 7 inches with 1/4″ graduations. The metric scale reads from 0 to 15 cm with 1 cm graduations.

Plastic Caliper 1 oz.	C	59768	$4.95
		12+	$4.45

JIM-GEM® Wheeler Pentaprism Caliper
1385

Accurate, one-person tree diameter measurements!

Measure from any unobstructed sighting position and at any height on the tree-stump, dbh or merchantable height. Two pentaprisms, mounted in a tubular metal frame, permit simultaneous viewing along parallel lines of sight. The prism on the left side is fixed while the right prism is movable along the measuring scale. The image of the right side of the stem as viewed through both prisms can be aligned with the left side. At the alignment position, the outside bark diameter of the stem may be read directly from the measuring scale. Measures diameters 3″ to 24″ or 7 cm to 62 cm. Accurate to ±0.1 inch; ±2 mm at 50 feet.

Measures to 24″ diameter (62 cm). 27-1/2″ (69 cm) Long.	C	2 lbs.	59702	$649.95

Using the Wheeler Pentaprism Caliper

Holding the caliper 3″ to 4″ from your eye, look through the viewing slot. Through the upper part of the slot you will see the left edge of the tree. In the lower part of the slot you will see the right edge of the tree reflected in the stationary prism. Slide the movable prism until the right edge reflection is brought into direct vertical alignment with the left tree edge, midway between the two vertical guidelines. Then read the tree diameter as indicated on the scale by the pointer.

To calibrate the Pentaprism Caliper, set up a cylindrical target of known diameter. Measure it with the caliper from a distance of 10 feet and again from a distance of 50 feet. Adjust the point position to make the scale read the same as the known diameter target.

Forestry Suppliers' Aluminum Tree Caliper
1387

Easy to use, this aluminum caliper is not affected by weather or climate. Measures diameters up to 8″ in inches on one side (0 to 8″ marked every 1/2″) and centimeters on the other side (0 to 20 cm). 9-1/2″ Long.

Forestry Suppliers' Aluminum Tree Caliper 5 oz.	C	59767	$31.95

Haglöf

Haglöf Mantax Digitech Calipers
4165

Totally Digital Measurement

Accurate and easy to use, this high performance computer caliper from Haglöf can store thousands of diameter measurements from several different species. The built-in IR and radio allow wireless communication between the Digitech and other handheld computers. Diameter measurements can be stored in the caliper's internal memory or transmitted online to your field computer using the built-in radio transmitter. In addition, tree heights can be sent to the Digitech from the Haglöf Vertex IV Hypsometer (sold separately) and then forwarded via IR to your field computer for greater efficiency in the field. The caliper can even be used together with Haglöf T Cruise software (sold separately)! The convenient "double scale" feature allows measurements from trees with larger diameters than the physical scale length of the caliper. **Operating temperature:** -4°F to 158°F (-20°C to 70°C). **Power supply:** One AA battery.

24″	E	3 lbs.	34111	$1632.00
30″	E	3 lbs.	34112	$1632.00

E English C Combination English and Metric

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Haglöf Mantax Black Calipers
8683

With Foldable Jaws

These calipers make it easy to move between various trees and plots. Just fold the jaws parallel to the scale of the caliper for easy carrying. Each caliper features a non-reflective, alloy-coated aluminum scale with a rounded profile and a hollow center to provide durability, strength, and lightness. The caliper offers a smooth glide and features an ergonomic handle for comfortable use with or without gloves.

Haglöf English Mantax Black Calipers

Graduated in inches and 10ths.

18″	E	2 lbs.	**59771**	**$202.75**
24″	E	3 lbs.	**59772**	**$242.25**
30″	E	3 lbs.	**59782**	**$275.95**
36″	E	3 lbs.	**59783**	**$291.50**

Metric

Graduated in cm and mm.

500 mm	M	2 lbs.	**59714**	**$202.95**
650 mm	M	3 lbs.	**59738**	**$242.25**
800 mm	M	3 lbs.	**59749**	**$275.95**
950 mm	M	3 lbs.	**59763**	**$292.50**

Haglöf Mantax Black Calipers with Gator Eyes
8761

Easily measure diameters from a distance! Simply aim the two perfectly aligned laser pointer Gator Eyes as though you are actually at the stem and then pull the caliper jaws apart until the laser points are positioned where you want them. Read the results on the caliper scale. The Class III green lasers reach over 130 feet (40 meters) and offer outstanding visibility in sunny areas. Ideal for measuring upper stem diameter as well as for use in areas where access to certain trees is limited. Each pair of Gator Eyes is mounted on a Haglöf Mantax Black Caliper. **Power:** 2 CR123A lithium batteries (included).

English

Graduated in inches and 10ths.

Gator Eyes with 18″ Caliper	E	3 lbs.	**59272**	**$594.00**
Gator Eyes with 24″ Caliper	E	3 lbs.	**59273**	**$615.00**
Gator Eyes with 30″ Caliper	E	4 lbs.	**59274**	**$638.00**

Metric

Graduated in cm and mm.

Gator Eyes with 500 mm Caliper	M	3 lbs.	**59275**	**$594.00**
Gator Eyes with 650 mm Caliper	M	3 lbs.	**59276**	**$615.00**
Gator Eyes with 800 mm Caliper	M	4 lbs.	**59277**	**$638.00**

Note: Not recommended for use in temperatures below freezing.

Haglöf Mantax Blue Calipers
1382

High strength injection-molded plastic brackets that are stronger than aluminum brackets! Eliminates loose rivets and wear that could produce inaccurate measurements. These heavy-duty aluminum calipers give accurate diameter measurements up to 50″ or 127 cm. Easy-sliding, adjustable measuring jaws. Beams graduated on both sides.

Set of 4 Replaceable Sliders for all Mantax Blue Aluminum Calipers	1 oz.	**59713**	**$8.50**

	Length	Graduations Side 1		Graduations Side 2				Weight	SN	Each	2+
English	18″	inches	10ths	inches	10ths	E		2 lbs.	**59721**	**$142.25**	**$131.95**
	24″	inches	10ths	inches	10ths	E		2 lbs.	**59722**	**$168.95**	**$157.75**
	30″	inches	10ths	inches	10ths	E		3 lbs.	**59723**	**$182.75**	**$170.25**
	36″	inches	10ths	inches	10ths	E		3 lbs.	**59724**	**$202.95**	**$189.50**
	40″	inches	10ths	inches	10ths	E		3 lbs.	**59725**	**$234.95**	**$219.25**
	50″	inches	10ths	inches	10ths	E	X	4 lbs.	**59726**	**$259.75**	**$239.95**
Metric	40 cm	cm	mm	cm	mm	M		2 lbs.	**59727**	**$128.75**	**$120.50**
	50 cm	cm	mm	cm	mm	M		2 lbs.	**59728**	**$142.25**	**$131.95**
	65 cm	cm	mm	cm	mm	M		2 lbs.	**59729**	**$168.95**	**$157.75**
	80 cm	cm	mm	cm	mm	M		3 lbs.	**59730**	**$182.75**	**$170.25**
	95 cm	cm	mm	cm	mm	M		3 lbs.	**59731**	**$202.95**	**$189.50**
	102 cm	cm	mm	cm	mm	M		3 lbs.	**59732**	**$234.75**	**$219.25**
	127 cm	cm	mm	cm	mm	M	X	4 lbs.	**59733**	**$259.75**	**$239.95**
Combo	18″ (50 cm)	inches	10ths	cm	mm	C		2 lbs.	**59734**	**$142.25**	**$131.95**
	24″ (65 cm)	inches	10ths	cm	mm	C		2 lbs.	**59735**	**$168.95**	**$157.75**
	30″ (80 cm)	inches	10ths	cm	mm	C		3 lbs.	**59736**	**$182.75**	**$170.25**
	36″ (95 cm)	inches	10ths	cm	mm	C		3 lbs.	**59737**	**$202.95**	**$189.50**

E English M Metric C Combination English and Metric X Items 60″ or more require an additional handling charge.

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Diameter Tapes

1 Lufkin® Nubian Finish
1422

76″ Diameter in inches, 10ths one side, 20′ linear in feet, 10ths, 100ths other side. 3/8″ Wide black etched steel line with raised bright steel graduations. Claw hook, hand crank rewind and vinyl covered steel case. **Case dimensions:** 3-1/2″ x 1″.

2 Forestry Suppliers English Steel Diameter Tape
1426

76″ Diameter in inches, 10ths on one side; 20′ linear in feet, 10ths, 100ths on other side. 3/8″ Wide line with claw hook. Handcrank rewind. **Case dimensions:** 3-1/2″ x 1″.

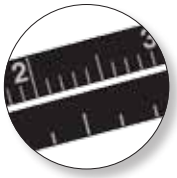
3 Forestry Suppliers Metric Steel Diameter Tape
1426

244 cm Diameter in cm, mm, on one side; 7.5m linear in mm on other side. 1cm (3/8″) Wide claw hook. Handcrank rewind. PVC coated metal case. **Case dimensions:** 3-1/2″ x 1″.

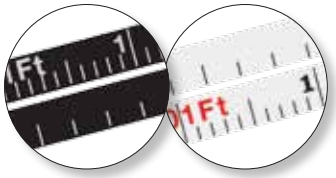
4 Lufkin® Chrome-Clad
1425

English or Metric

3/8″ Wide line is chrome-clad steel with black graduations. Claw hook, hand crank rewind and vinyl covered steel case. **Case dimensions:** 3-1/2″ x 1″.

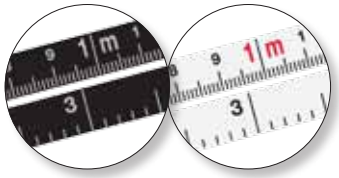


Model 120-P
59438



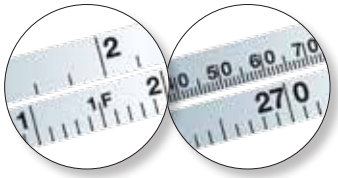
Model 343D
59493

Model 347D
59495



Model 345D
59525

Model 349D
59527



Model C 120 TP
59420

Model C106TPM
59422

			Model	SN		Weight	$	Refill	Weight	$		Blade Length
Nubian Tapes	1	Lufkin Nubian Finish	120-TP	**59438**	E	8 oz.	**$75.95**	—			F	76″
											B	20′
	2	Forestry Suppliers, Inc. Steel Diameter Tape	343D	**59493**	E	10 oz.	**$39.95**	**59494**	5 oz.	**$27.95**	F	76″
											B	20′
	3	Forestry Suppliers, Inc. Steel Diameter Tape	345D	**59525**	M	11 oz.	**$46.25**	**59526**	6 oz.	**$34.75**	F	244 cm
											B	7.5m
Clad Tapes	2	Forestry Suppliers, Inc. White Enamel	347D	**59495**	E	10 oz.	**$39.95**	**59496**	4 oz.	**$25.75**	F	76″
											B	20′
	3	Forestry Suppliers, Inc. White Enamel	349D	**59527**	M	10 oz.	**$54.95**	**59528**	5 oz.	**$39.95**	F	244 cm
											B	7.5m
	4	Lufkin® Chrome-Clad	C 120 TP	**59420**	E	9 oz.	**$71.95**	—			F	76″
											B	20′
			C106TPM	**59422**	M	10 oz.	**$84.50**	—			F	2,000 mm
											B	6.5 m
	5	Spencer Chrome-Clad	SP35DCR	**59471**	E	9 oz.	**$43.25**	**39349**	4 oz.	**$26.25**	F	120″
											B	35′
	6	Spencer Yellow-Clad	SP50DC	**59473**	E	11 oz.	**$29.50**	**39435**	6 oz.	**$22.25**	F	120″
											B	50′
Fabric Tapes	7	Forestry Suppliers, Inc.	283D/20F	**59566**	E	10 oz.	**$44.75**	**59567**	2 oz.	**$28.95**	F	76″
											B	20′
	8	Forestry Suppliers, Inc.	283D/5M	**59571**	M	10 oz.	**$38.25**	**59572**	2 oz.	**$23.50**	F	160 cm
											B	5m
			283D/10M	**59576**	M	11 oz.	**$44.95**	**59573**	3 oz.	**$29.95**	F	320 cm
											B	10m

E English
M Metric

[search engine powered by magazooms.com]

Leather Tape Holster
6516

Fits belts up to 2″ wide. Snap closure. Finger hole in bottom to push tape out. Fits all 3-1/2″ x 1″ diameter tapes, except 59571, 59566, and 59576.

Leather Case	3 oz.	**37300**	**$11.75**

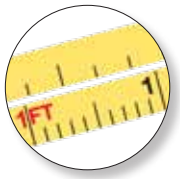
5 Spencer® Chrome-Clad Diameter Tape with Claw Hook
1434

3/8″ Line is chrome-clad steel with black graduations. Claw hook, handcrank rewind, plastic case. **Case dimensions:** 3-1/2″ x 1″.

Model SP35DCR
59471

6 Spencer® Yellow-Clad Diameter Tape with Ring End
1432

120″ Diameter/50′ linear. 3/8″ Wide line is yellow-clad steel with black and red graduations. Handcrank rewind, plastic case. Ring end. **Case dimensions:** 3-1/2″ x 1″.



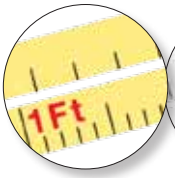
Model SP50DC
59473

Forestry Suppliers Fabric Diameter Tape

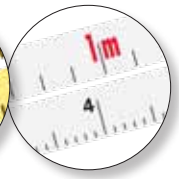
5/8″ Wide tape line is synthetic fabric. Graduations begin 10 cm from claw. Reinforcement at beginning of line. **Case dimensions:** 3-7/8″ x 1-1/8″.

7 English
6517
76″ Dia./20′ L.

8 Metric
1428
160cm Dia./5m L.



Model 283D/20F
59566



Model 283D/5M
59571

Measures	Graduations	Blade Width	Finish	Construction	End	Rewind	Case	Case Dimensions
Diameter	inches, 10ths	3/8″	Nubian (Black)	Black etched steel with raised graduations	Claw hook	Crank	Vinyl covered steel	3-1/2″ x 1″
Linear	feet, 10ths, 100ths							
Diameter	inches, 10ths	3/8″	Black	Black etched steel with white graduations	Claw hook	Crank	PVC covered steel	3-1/2″ x 1″
Linear	feet, 10ths, 100ths							
Diameter	cm, mm	1cm (3/8″)	Black	Black steel line with bright graduations	Claw hook	Crank	PVC covered steel	3-1/2″ x 1″
Linear	mm							
Diameter	inches, 10ths	3/8″	White enamel	White enameled steel with black graduations	Claw hook	Crank	PVC covered steel	3-1/2″ x 1″
Linear	feet, 10ths, 100ths							
Diameter	cm, mm	1cm (3/8″)	White enamel	White enameled steel with black graduations	Claw hook	Crank	PVC covered steel	3-1/2″ x 1″
Linear	mm							
Diameter	inches, 10ths	3/8″	Chrome-clad	Steel with black graduations	Claw hook	Crank	Vinyl covered steel	3-1/2″ x 1″
Linear	feet, 10ths, 100ths							
Diameter	mm, cm	3/8″	Chrome-clad	Steel with black graduations	Claw hook	Crank	Vinyl covered steel	3-1/2″ x 1″
Linear	mm, cm, dm, and m							
Diameter	inches, 10ths	3/8″	Chrome-clad	Steel with black graduations	Claw hook	Crank	ABS plastic	3-1/2″ x 1″
Linear	feet, 10ths, 100ths							
Diameter	inches, 10ths	3/8″	Yellow-clad	Steel with black and red graduations	Ring	Crank	ABS plastic	3-1/2″ x 1″
Linear	feet, 10ths, 100ths							
Diameter	inches, 10ths	5/8″	Synthetic fabric	Reinforced with brass wires	Claw hook	Crank	PVC covered steel	3-7/8″ x 1-1/8″
Linear	ft., 10ths, 100ths							
Diameter	cm, mm	5/8″	Synthetic fabric	Reinforced with phosphor brass wires	Claw hook	Crank	PVC covered steel	3-7/8″ x 1-1/8″
Linear	m, cm							
Diameter	cm, mm	5/8″	Synthetic fabric	Reinforced with phosphor brass wires	Claw hook	Crank	PVC covered steel	3-7/8″ x 1-1/8″
Linear	m, cm							

E English
M Metric

JIM-GEM® Pocket Diameter Tape
1431

English

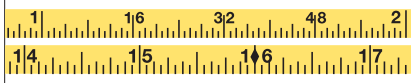
38″ Diameter in inches, 10ths, and 100ths one side, 120″ Linear in inches and 16ths (first 12″ in 32nds) other side. 1/4″ x 10′ Yellow line steel tape has black markings. ABS case. Spring rewind. Blade lock. **Dimensions:** 2-1/8″ x 1-7/8″.

JIM-GEM Pocket Diameter Tape			
2 oz.	E	**39480**	**$12.25**
		10+	**$10.25**

Lufkin® Spring Rewind Executive Thinline Diameter Tape
1433

English or Metric

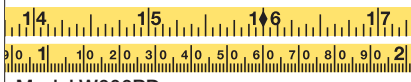
1/4″ wide line is yellow enameled steel with black graduations. Square ring on end. Spring rewind. Pocket sized. **Dimensions:** 1.5″ diameter.



Model W606P

23″ diameter in inches to 64ths on one side, 72″ linear in inches to 16ths first 12″ in 32nds on other side.

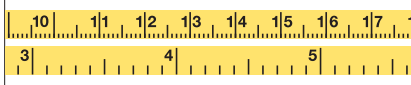
Model W606P			
2 oz.	E	**39015**	**$16.50**



Model W606PD

23″ diameter in inches to 100ths on one side, 72″ linear in inches to 16ths first 12″ in 32nds on other side.

Model W606PD			
2 oz.	E	**39016**	**$17.95**



Model W606 PM

64 cm Diameter in cm, mm on one side, 200 cm linear in cm, mm on other side.

Model W606 PM			
2 oz.	M	**59505**	**$17.50**

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Keson® Pocket Diameter Tape
4736

Pocket-sized diameter tape measures to 23″ diameter in inches to 100ths on one side and to 72″ linear in inches to 16ths with first 12″ in 32nds on the other side. Stainless steel case with textured rubber grip around edge to prevent slipping.

Model PD618 - Pocket Diameter Tape 2 oz.		**39060**	**$16.95**

12′ Logger's/ Diameter ProTape
2971

Allows you to convert circumference to diameter. Double-sided tape features a compact design and fast automatic rewind with locking tape. 12′L x 3/8″W.

12′L/45″ Diameter Protape, Graduated in ft., in, and 16ths on one side; dia. in inches, 10ths, and 16ths on the other side. 4 oz.		**39375**	**$15.75**

Tape Holster/Guard
1436

Thick leather, 2″ belt loops. Neolite backing keeps guard from bending when wet.

Tape Holster/Guard 4 oz.		**39320**	**$9.25**

Pro Tape® Diameter Tapes
2572

English with Automatic Rewind

These automatic rewind tapes feature a folding engineer's hook, a locking brake, and a bumper to protect the blade tip during rewind. Constructed of aircraft aluminum, the tape has an open reel with gear drive.

Model 950DCB - 50′L/120″Dia., Graduated in ft., 10ths, and 100ths one side; dia. in inches and 10ths on the other side.	E	1 lb.	**39381**	**$56.95**
Refill for Model 950DCB	E	6 oz.	**39382**	**$17.25**
Model 950CB - 50′L/120″Dia., Graduated in ft., in, and 8ths on one side; dia. in inches and 10ths on the other side.	E	1 lb.	**39308**	**$56.95**
Model 975DCB - 75′L/120″Dia., Graduated in ft., 10ths, and 100ths one side; dia. in inches and 10ths on the other side.	E	2 lbs.	**39302**	**$72.95**
Model 975CB - 75′L/120″Dia., Graduated in ft., in, and 8ths on one side; dia. in inches and 10ths on the other side.	E	2 lbs.	**39301**	**$72.95**
Model 900DCB - 100′L/120″Dia., Graduated in ft., 10ths, and 100ths one side; dia. in inches and 10ths on the other side.	E	2 lbs.	**39346**	**$78.50**

Spencer® 35′ Chrome-Clad Logger's Tape
6521

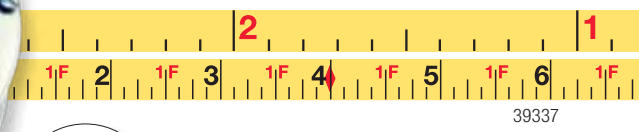
120″ Diameter in inches, 10ths on one side, 35′ linear in feet, 10ths, 100ths on the other side. Heavy-duty chrome-clad tape line with claw hook. Heavy-duty plastic case. Fast automatic rewind. Durable belt clip. **Case dimensions:** 4-1/4″ x 3/4″.

Spencer 35′ Chrome-Clad Logger's Tape, Model 35DCR	E	1 lb.	**39300**	**$43.50**
Refill with claw hook	E	4 oz.	**39349**	**$26.25**

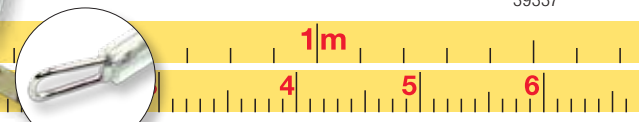
Spencer® Logger's Tapes
1435

English, Metric, English/Metric

Designed for use in the most rugged conditions! Yellow enamel line, black graduations, black and red numbers, heavy-duty case, hardened steel gears and fast automatic rewind. All tapes sold without nail (order separately).



39337



39379

Type	Model	Length	Weight		SN	$	Side 1 Measures			Side 2 Dia.	Side 2 Grad.	Side 2 Measures			Replacement Line Weight	Replacement Line SN	Replacement Line $
Combination	950C	50′	1 lb.	E	**39337**	**$55.50**	feet	inches	8ths	120″	10ths				6 oz.	**39338**	**$21.25**
Combination	950DC	50′	1 lb.	E	**39434**	**$53.75**	feet	10ths	100ths	120″	10ths				6 oz.	**39435**	**$22.25**
Length only	950	50′	1 lb.	E	**39392**	**$41.75**	feet	inches	8ths			feet	inches	8ths	6 oz.	**39387**	**$14.25**
Combination	975C	75′	2 lbs.	E	**39339**	**$68.75**	feet	inches	8ths	120″	10ths				9 oz.	**39340**	**$28.35**
Combination	975DC	75′	2 lbs.	E	**39436**	**$68.95**	feet	10ths	100ths	120″	10ths				9 oz.	**39437**	**$29.95**
Length only	975	75′	2 lbs.	E	**39521**	**$52.25**	feet	inches	8ths			feet	inches	8ths	9 oz.	**39522**	**$18.50**
Combination	900DC	100′	2 lbs.	E	**39405**	**$75.95**	feet	10ths	100ths	120″	10ths				12 oz.	**39406**	**$30.75**
Length only	950XL	66′/20m	1 lb.	C	**39394**	**$44.95**	feet	inches	8ths			m	cm		8 oz.	**39395**	**$20.95**
Length only*	975EM	75′/22m	2 lbs.	C	**39383**	**$52.25**	feet	inches	8ths			m	dm	cm	9 oz.	**39384**	**$22.75**
Combination	900MED	30m	2 lbs.	M	**39379**	**$78.95**	m	dm	cm	500cm	cm/mm				12 oz.	**39380**	**$33.75**

*16″ centers

E English M Metric C Combination English and Metric

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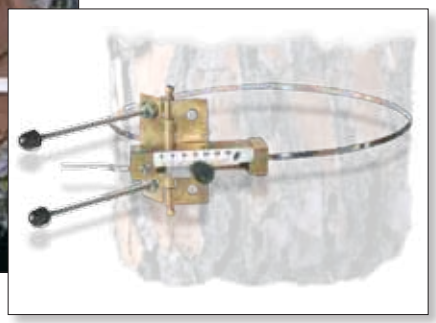


Series 5 Manual Band Dendrometers

1440

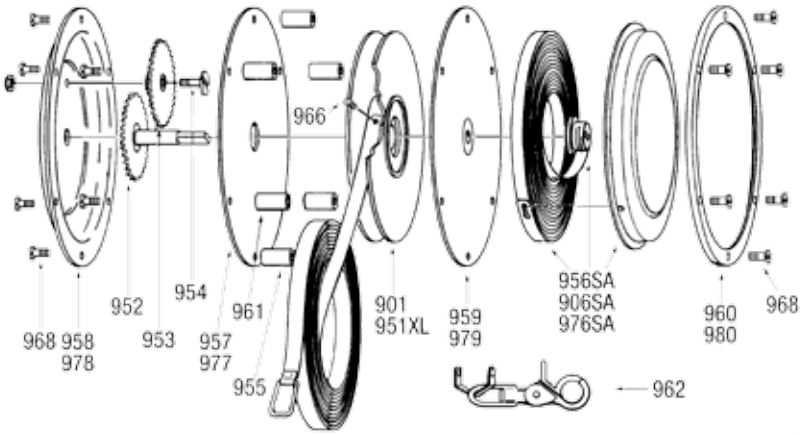
Measure growth and water status of trees daily and seasonally with these band dendrometers!

Trunk circumference contracts daily during morning and early afternoon as storage water moves out of the trunk to the crown. In late afternoon and evening, the trunk expands as root water recharges the storage volume in the trunk. When this cycle begins to decrease in magnitude, the tree is under water stress. Seasonally, the trunk slowly forms a ring of wood. Band dendrometers can determine when and how much wood is formed. Once the yearly pattern is established, deviations from this pattern due to fertilizer, water or sickness can be determined, often before visual symptoms appear. The dendrometer is constructed of stainless steel and brass with a UV-stabilized nylon thumb screw. Consists of the band around the circumference of the trunk (can be applied to trunk diameters of 1″ and larger) and a method of measuring very small changes in the length of the band. The method consists of two metric (millimeter) scales. One scale is fixed. The second scale is attached to the band and moves as the tree expands and contracts. For advanced users, the dendrometer can also be used with a digital caliper to achieve a ten fold increase in resolution over visual readout. **Two constant band tension levels available:** low tension for trees up to 20″ in diameter and high tension for trees over 20″ in diameter.

Low Tension	M	6 oz.	**59488**	**$53.95**
			10+	**$48.95**
High Tension	M	6 oz.	**59489**	**$53.95**
			10+	**$48.95**

Spencer® Replacement Parts

1437



Mfc. #	Description	Models	Weight	SN	$
901	Spool with pinion gear	75′ and 100′	2 oz.	**39843**	**$12.95**
951 XL	Spool with pinion gear	50′ and 65′	2 oz.	**39396**	**$11.65**
952	Main Shaft and gear	50′, 65′, 75′ and 100′	1 oz.	**39802**	**$7.65**
953	Idler Gear and pinion	50′, 65′, 75′ and 100′	1 oz.	**39803**	**$5.25**
954	Idler Bearing with screw, nut	50′, 65′, 75′ and 100′	1 oz.	**39804**	**$3.70**
955	Spacer Post with two screws	50′, 65′, 75′ and 100′	1 oz.	**39805**	**$1.10**
956SA	Complete Spring Assembly	50′ and 65′	8 oz.	**39841**	**$14.95**
957	Gear Cover Plate	50′ and 65′	1 oz.	**39808**	**$2.30**
958	Gear Housing with bearing	50′ and 65′	1 oz.	**39809**	**$9.45**
959	Spring Cover Plate with bearing	50′ and 65′	1 oz.	**39810**	**$4.30**
960	Locking Ring	50′ and 65′	1 oz.	**39811**	**$2.90**
906SA	Complete Spring Assembly	100′ only	9 oz.	**39844**	**$17.90**
961	Nylon Guide Post with screws	50′, 65′, 75′ and 100′	1 oz.	**39812**	**$1.30**
962	Hanger and Swivel Clip	50′, 65′, 75′ and 100′	2 oz.	**39813**	**$5.80**
966	Tape Refill Screw	50′, 65′, 75′ and 100′	1 oz.	**39819**	**$0.35**
968	Post Screw	50′, 65′, 75′ and 100′	1 oz.	**39820**	**$0.35**
976SA	Complete Spring Assembly	75′ Model only	9 oz.	**39842**	**$16.65**
977	Gear Cover Plate	75′ and 100′	1 oz.	**39828**	**$2.90**
978	Gear Housing with bearing	75′ and 100′	2 oz.	**39829**	**$10.90**
979	Spring Cover with plate and bearing	75′ and 100′	1 oz.	**39830**	**$5.60**
980	Locking Ring	75′ and 100′	1 oz.	**39831**	**$3.70**

M Metric

Spencer® Tape Accessories

6523

Horseshoe Nail
1 oz. **39341** **$0.75**

Tape Nail
1 oz. **39385** **$5.90**

Release Nail

Requires Hinge 39397.

Release Nail
1 oz. **39347** **$5.90**

Hinge

For attaching Release Nail. Two Rivets required.

Hinge
1 oz. **39397** **$0.70**

Tape Repair End

Flexible dymex line is 19″ long and is equipped with end ring, a retraction shock stop and a piece of shrink tape to cover/reinforce reattachment point.

Tape Repair End
1 oz. **39484** **$6.25**

Claw Hook
1 oz. **39400** **$5.90**

Tape Repair Rivets

Box of 500.

Tape Repair Rivets
1 oz. **39186** **$11.75**

Tape Repair Tool

3847

Punch holes and brad rivets to make permanent repairs to your broken logger's tape. Includes pack of 100 rivets. **Dimensions:** 7″ x 3″ x 1/2″.

Tape Repair Tool
12 oz. **39187** **$59.95**

Tape Repair Rivets, Box of 500.
1 oz. **39186** **$11.75**

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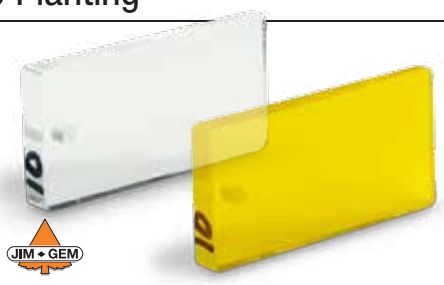
Custom Shape Prisms
1390

Ideal for hilly or mountainous terrain.

Accurate to ±1% of rated BAF. Efficient familiar design (30° ellipse curvature at top) for all general cruising. Base is parallel to horizontal axis for slope correction reference. 40 mm x 40 mm. Leather case.

Forestry Suppliers Lanyard	1 oz.	**30000**	**$2.95**
Replacement Leather Case	1 oz.	**59000**	**$3.50**



Rectangular Prisms
1391

English

Our most popular prism shape. Accurate to ±1% of rated BAF. Gives a narrow-sharp image for good results in dense timber. 20 mm x 40 mm. Supplied in leather case.

Forestry Suppliers Lanyard	1 oz.	**30000**	**$2.95**
Replacement Leather Case	1 oz.	**59000**	**$3.50**

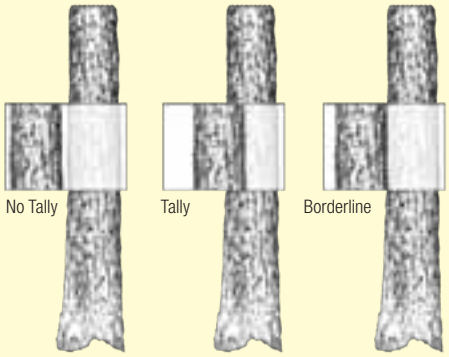
Square Prisms
1392

English

Square shape offers a larger viewing area. Accurate to ±1% of rated BAF. For general cruising in areas having less than 15% slope. 40 mm x 40 mm. Leather case.

Forestry Suppliers Lanyard	1 oz.	**30000**	**$2.95**
Replacement Leather Case	1 oz.	**59000**	**$3.50**

Prisms		Color		Weight	BAF – Metric 1	BAF – Metric 2	BAF – English 5	BAF – English 10	BAF – English 15	BAF – English 20	BAF – English 25	BAF – English 30	BAF – English 40	$
Custom Shape	JIM-GEM	Clear	E	1 oz.				**59031**						**$42.75**
		Clear	E	1 oz.						**59032**				**$44.25**
		Amber	E	1 oz.				**59033**		**59034**				**$69.75**
	"Cruise Master"	Clear	M	1 oz.	**59105**	**59107**								**$52.95**
		Clear	E	2 oz.			**59342**	**59170**	**59181**	**59190**	**59183**	**59185**	**59189**	**$52.95**
		Amber	E	2 oz.				**59168**		**59175**				**$78.75**
Rectangular	JIM-GEM	Clear	E	1 oz.				**59026**						**$28.25**
		Clear	E	1 oz.						**59018**				**$28.75**
		Amber	E	1 oz.				**59021**						**$47.25**
		Amber	E	1 oz.						**59022**				**$48.25**
	"Cruise Master"	Clear	E	1 oz.			**59343**	**59180**	**59182**	**59200**				**$52.95**
		Amber	E	1 oz.				**59169**						**$78.75**
Square	JIM-GEM	Clear	E	1 oz.				**59025**						**$40.25**
		Clear	E	1 oz.						**59211**				**$44.25**
		Amber	E	1 oz.				**59027**						**$54.50**



Pointers on using the Wedge Prism

Hold it correctly

Hold prism at any convenient distance from the eye, directly over the sampling point. Hold in a vertical position and at a right angle to the line of sight.

Correct it for slope

Make corrections in point sampling when slope is 15% or greater, that is, a 15-ft. rise or drop in elevation per 100 horizontal feet. (For slope correction using a secant scale clinometer, multiply the BAF of the prism/angle gauge times the secant value of the slope in the direction of each tally tree. This reading will be the BA of the tally tree. Trees sampled in this method should be added together to obtain the total BA for the plot.)

When the wedge prism is used, an appropriate on-the-ground compensation for slope can be made by tilting the top edge of the prism through the estimated slope angles.

Clear or amber glass

Clear glass prisms perform satisfactorily in most cruising conditions. Amber glass prisms prove superior when cruising is done in low light, hazy or misty conditions.

Handling borderline trees

Tree stems not completely offset when viewed through the prism are counted; others are not tallied. Measure and check borderline trees with the appropriate plot radius factor.

Cruiser's Crutch
1396

Provides correct readings on 0 to 90% slopes for English BAF's: 10, 20, 30 or 40, or for Metric BAF's 2, 3, 4, 5, or 6. Clear, tough Lexan with 26″ nickel-plated chain has four brass balls, one for each BAF. To use, determine slope to the nearest five percent. Hold the brass ball for the selected BAF under your eye and extend the Crutch away until chain is taut. Line up tree with appropriate slope percent line on the gauge. If the tree at dbh is wider than the line on the angle gauge being sighted across, tally the tree. Available in English or metric models.

English Model 1 oz.	E	**59796**	**$33.95**
Metric Model 2 oz.	M	**59778**	**$33.95**

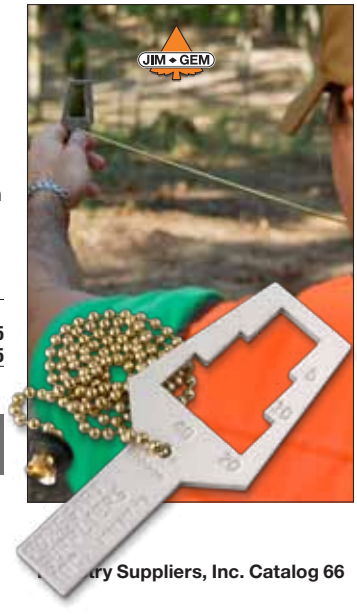
E English M Metric

JIM-GEM® Cruz-All
1395

Measure the basal area forest stands using any of these English BAF's: 5, 10, 20 or 40. Consists of an aluminum die-cut gauge and a 25″ bead chain. To use, hold the button at the end of the chain in your teeth and extend the Cruz-All away from your eye until chain is taut. Looking through the Cruz-All, "count" all trees appearing wider at breast height than the opening for the basal area factor you're using.

JIM-GEM Cruz-All 1 oz.	E	**59795**	**$12.95**
		10+	**$11.95**

Chlorophyll Content Meter page 286



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Digital Plant Canopy Imager

8534

Manufacturer's Warranty 1 Year

Obtain fast, accurate, non-destructive plant canopy measurements with this precision instrument. The complete package includes a high-resolution color fisheye camera lens, a touch screen handheld computer with built-in GPS, and a forearm mounting system for the computer. The fisheye lens (170° viewing angle), CCD camera, and auto-level gimbal are located on an image capturing probe. Simply hold the probe under a plant or forest canopy to see a live, high-resolution fisheye image. Once the image has been captured, the included software calculates the solar beam transmission coefficients using a user-defined number of zenith and azimuthal divisions. The user-selected number of zenith divisions (rings) and azimuthal divisions allows for investigation of any canopy sectors desired. In addition, the sun's path can be easily plotted on an image. A gap-fraction inversion procedure is used to calculate Leaf Area Index of the canopy, diffuse radiation transmission coefficients, mean foliage inclination angles, and plant canopy extinction coefficients. The software also allows for automatic GPS data tagging, and the Automatic Image Logging stores unedited canopy images alongside calculated canopy data. Output data is displayed on the handheld computer screen and can be saved in multiple file formats. The imager has 24 PAR sensors to measure sun flecks in the range of Photosynthetic Active Radiation. One year manufacturer's warranty.

Lens: Self-leveling anti-reflective. **Fisheye Lens Angle:** 170°. **Image Resolution:** 3 megapixels. **Interface:** USB. **Memory Size:** 60 GB HD. **Measuring Time:** 0.5 second. **Probe Size:** 20 x 20mm. **Arm Length:** 400mm. Probe and Arm Weight: 0.5 kg. **Operating Temperature:** 5°C to 50°C.

Digital Plant Canopy Imager Package with 24 PAR Sensors	O	15 lbs.	**92567**	**$9190.00**

Model CI-202L Portable Laser Leaf Area Meter

1634

Ideal for specialized research and studies into plant physiology.

Utilizing advanced laser technology, this meter provides a precise, convenient method to measure leaf area (or the areas of leaf-like objects). Simply slide the scanner over the leaf to obtain accurate, non-destructive measurements. The meter measures area, length, width, and perimeter and also calculates shape factor and aspect ratio. No calibration is needed. You can easily collect data from the same plant or the same leaf throughout a life span. Precise measurements of even tender leaves can be done by using a transparent sheath for protection. The unit's high-resolution laser scanner, data logger, and display are enclosed in a single, handheld palette unit. A USB port allows for data transfer to a printer or computer. Included are a palette-style scan board, laser scanner with built-in control unit, internal batteries, battery charger, communication software, one additional transparent film, hard-shell instrument carrying case, and operating manual.

Measuring Thickness: 25 mm maximum. **Measuring Width:** 150 mm maximum. **Measuring Length:** 3 m maximum. **Resolution:** 0.1 mm2. **Accuracy:** ±1% for samples > 10 cm2. **Measuring Units:** cm2 (area), cm (length, width, and perimeter). **Memory Size:** 32k bytes, 15,000 readings. **Display:** 16 characters x 2 lines LCD. **Scanning Speed:** 400 mm/second. **Battery:** 7.2 volt rechargeable Nickel Cadmium. **Battery Capacity:** over 15 hours of normal use. **Operating Temperature:** 0°C to 50°C.

Model CI-202L Portable Laser Leaf Area Meter	M	3 lbs.	**92562**	**$5755.00**

Forestry Suppliers Spherical Crown Densiometers

1397

Use to determine forest overstory density or as one indicator in wetland delineation work.

Helpful when establishing spacing standards in forest thinning and determining light requirements for regeneration. Both models feature a mirror reflector engraved with a cross-shaped grid of 24 quarter-inch squares to delineate a plot overhead. Slightly offset convex model when using so your head does not appear in grid. Walnut instrument case is 3″ x 3″. Built-in leveling bubble. Instructions included.

Convex – Model A 6 oz.	**43887**	**$104.50**
Concave – Model C 6 oz.	**43888**	**$104.50**

GRS Densitometer

6512

Estimate canopy coverage percentages easily!

Angled sighting mirror and offset leveling vials allow you to vertically sample forest canopies for a variety of coverage characteristics (e.g. canopy structure, coverage by tree size and species, and percentage of conifer/hardwood). Use to determine non-tree characteristics of sample areas (e.g. percentage of shrub/herbaceous coverage and the ground's condition/soil type). Results are concise, objective and repeatable between observers.

GRS Densitometer 11 oz.	**43889**	**$109.00**

Panama Angle Gauge

1389

Measures the basal area of a forest stand using the English BAF 10. Simply position yourself so the eyepiece is directly over the sampling point and "count" each tree appearing wider at breast height than the vertical portion of the cross-shaped opening. 8-1/4″ hollow plastic tube with eyepiece opening.

Panama Angle Gauge	2 oz.	**59350**	**$39.95**

M Metric O Oversize. Ships at Oversize rate. See Shipping Information for details.

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How to select the correct Increment Borer for your needs.

Three factors to consider when ordering an increment borer are bit length, core diameter and thread style.

Borer Bit Length depends on the size of the trees you will be boring. Length is measured from the tip of the threads to the end of the round section of the borer bit. This is the maximum depth the bit will penetrate.

Core Diameter of the wood sample is determined by the inside diameter of the opening at the threaded end of the bit. 0.169″ is commonly used for general forestry use, 0.200″ for wood preserving testing and 0.500″ for large amounts of wood for qualitative analysis.

2- or 3-Thread style is a matter of personal preference. A 2-thread borer has two threads on the cutting edge of the bit, each originating 180° apart. A 3-thread borer has three threads, each originating 120° apart. The higher thread pitch of the 3-thread borer will penetrate deeper per revolution than a 2-thread. A 3-thread will also produce less friction because more steel is in contact with the wood. The ease at which a borer penetrates wood depends on wood hardness, friction properties and capability/strength of the user.

Replacement Parts

Replacement parts are not interchangeable between brands. When ordering replacement bits and extractors, send us the handle and broken parts via insured Parcel Post or UPS so that we can ensure that the correct bit and extractor fit. If this is not practical, we must have full specifications of the handle.

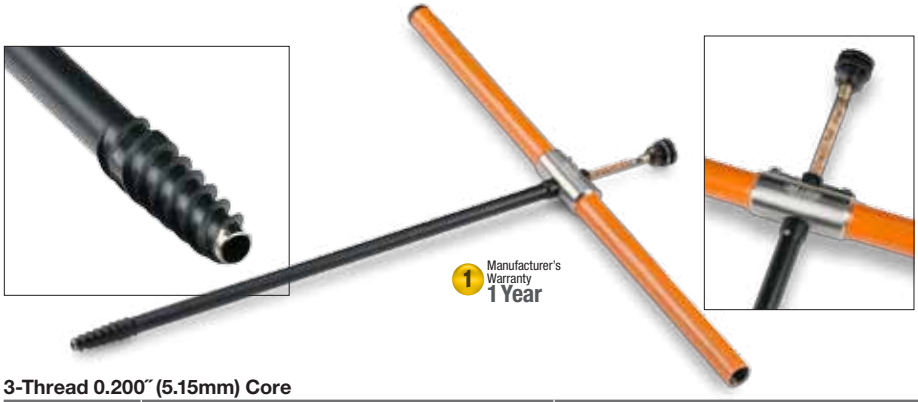
Professional Increment Borer Repair Service

Extend the useful life of your increment borer. Have the cuting edge sharpened and threads reshaped. For bit diameters up to 0.200″ (5.15mm), the cost is $34.00 plus shipping. For bits larger than 0.500″ (12mm) the cost is $48.00 plus shipping. (**Note:** Nicks, chips or cracks greater than 1/16″ deep cannot be repaired.)

Send your bits via insured Parcel Post or UPS, tagged and labeled with your name and address and packed securely to: Forestry Suppliers, Inc., 205 West Rankin Street, Jackson, MS 39201-6126, Attention: Repair Department.

A Note About Increment Borer Misuse

Increment borers are specifically designed and engineered for use with the handles supplied. Non-conformity with the explicit instructions for use (i.e. using the borer with a carpenter's brace & bit, power drill, etc.) will void any expressed or implied warranty from Forestry Suppliers, Inc. and the manufacturer.



JIM-GEM

JIM-GEM® Increment Borers

7924

Extract wood cores from trees, freshly treated poles, lumber, or timber to easily determine quality, growth rate, age, tree soundness, and chemical penetration. The steel borer bit is PTFE-coated for reduced friction as well as protection against rust and resin. Back threading allows for easy backing out of wood. The reinforced borer handle is color-coated for added visibility, protection, and a secure grip. The core extractor is constructed of stainless steel. Includes borer bit, handle, and extractor.

3-Thread 0.200″ (5.15mm) Core

	Complete Borer			Replacement Bits			Replacement Extractors		
Bit Length	Weight	SN	$	Weight	SN	$	Weight	SN	$
6″	8 oz.	**63080**	**$155.75**	2 oz.	**63086**	**$110.75**	1 oz.	**63092**	**$23.95**
8″	9 oz.	**63081**	**$167.25**	2 oz.	**63087**	**$120.50**	1 oz.	**63093**	**$24.75**
10″	11 oz.	**63082**	**$190.25**	3 oz.	**63088**	**$145.25**	1 oz.	**63094**	**$27.95**
12″	12 oz.	**63083**	**$204.50**	3 oz.	**63089**	**$155.25**	1 oz.	**63095**	**$29.75**
14″	14 oz.	**63084**	**$234.95**	4 oz.	**63090**	**$176.75**	1 oz.	**63096**	**$34.75**
16″	15 oz.	**63085**	**$251.95**	4 oz.	**63091**	**$189.75**	1 oz.	**63097**	**$35.95**

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Haglöf

Increment Borers
1398

Manufacturer's Warranty 1 Year

Made in Sweden

Use to extract cores of wood from trees or freshly treated poles, piling, lumber, or timbers to determine growth rate, age, tree soundness, and chemical penetration. Teflon® coating protects bit against rust and resin build-up and reduces friction. Hardened rubber cap is forged with extractor so it won't work loose. Increment borer use and care booklet included. One year manufacturer's waranty.

Replacement Parts

End Cap for 0.169″ and 0.200″ borers only (all lengths)	1 oz.	**00562**	**$6.40**
Latch w/Screw for 0.169″ and 0.200″ borers only (all lengths)	1 oz.	**00563**	**$5.15**

0.169″ (4.3mm) Core

Bit Length	Complete Borer						Replacement Bits						Replacement Extractors			Replacement Handles		
	2-Thread Borers			3-Thread Borers			2-Thread			3-Thread			2- or 3-Thread			2- or 3-Thread		
	Wt.	SN	$	Wt.	SN	$	Wt.	SN	$	Wt.	SN	$	Wt.	SN	$	Wt.	SN	$
4″				7 oz.	**63292**	**$147.25**				2 oz.	**63299**	**$112.25**	1 oz.	**63300**	**$26.50**			
6″				9 oz.	**63250**	**$160.95**				2 oz.	**63260**	**$114.75**	1 oz.	**63270**	**$28.25**	6 oz.	**63316**	**$34.50**
8″	10 oz.	**63331**	**$172.95**	10 oz.	**63251**	**$172.95**	3 oz.	**63343**	**$125.95**	3 oz.	**63261**	**$125.95**	1 oz.	**63271**	**$29.25**	7 oz.	**63317**	**$36.50**
10″	12 oz.	**63332**	**$197.25**	12 oz.	**63252**	**$197.25**	3 oz.	**63344**	**$150.25**	3 oz.	**63262**	**$150.95**	2 oz.	**63272**	**$32.75**	8 oz.	**63318**	**$36.95**
12″	13 oz.	**63333**	**$211.25**	13 oz.	**63253**	**$211.50**	4 oz.	**63345**	**$160.95**	4 oz.	**63263**	**$160.95**	2 oz.	**63273**	**$34.50**	9 oz.	**63322**	**$37.75**
14″	15 oz.	**63334**	**$244.25**	15 oz.	**63254**	**$244.25**	4 oz.	**63346**	**$182.95**	4 oz.	**63264**	**$182.95**	2 oz.	**63274**	**$40.75**	11 oz.	**63323**	**$40.95**
16″	1 lb.	**63335**	**$261.25**	1 lb.	**63255**	**$261.25**	5 oz.	**63347**	**$196.75**	5 oz.	**63265**	**$196.75**	2 oz.	**63275**	**$41.95**	11 oz.	**63324**	**$45.75**
18″				1 lb.	**63375**	**$411.25**				5 oz.	**63379**	**$311.25**	2 oz.	**63381**	**$60.25**			
20″				1 lb.	**63376**	**$429.75**				6 oz.	**63380**	**$343.95**	2 oz.	**63382**	**$61.95**			
0.200″ (5.15mm) Core																		
6″				9 oz.	**63256**	**$160.95**				3 oz.	**63014**	**$118.75**	1 oz.	**63276**	**$28.95**	6 oz.	**63316**	**$34.50**
8″	11 oz.	**63337**	**$172.95**	10 oz.	**63257**	**$172.95**	4 oz.	**63349**	**$125.95**	3 oz.	**63018**	**$125.50**	2 oz.	**63277**	**$29.95**	7 oz.	**63317**	**$36.50**
10″	12 oz.	**63338**	**$197.25**	11 oz.	**63258**	**$197.25**	4 oz.	**63350**	**$150.50**	4 oz.	**63268**	**$150.95**	2 oz.	**63278**	**$32.75**	8 oz.	**63318**	**$36.95**
12″	13 oz.	**63339**	**$211.25**	13 oz.	**63259**	**$211.25**	4 oz.	**63351**	**$160.95**	4 oz.	**63269**	**$160.95**	2 oz.	**63279**	**$34.50**	9 oz.	**63322**	**$37.75**
14″	15 oz.	**63340**	**$244.25**	15 oz.	**63280**	**$244.25**	5 oz.	**63352**	**$182.95**	5 oz.	**63282**	**$182.95**	2 oz.	**63284**	**$40.95**	11 oz.	**63323**	**$40.95**
16″	1 lb.	**63341**	**$261.25**	1 lb.	**63281**	**$261.25**	5 oz.	**63353**	**$196.75**	5 oz.	**63283**	**$196.75**	2 oz.	**63285**	**$41.95**	11 oz.	**63324**	**$45.75**
18″				1 lb.	**63357**	**$411.25**				6 oz.	**63358**	**$311.25**	2 oz.	**63359**	**$60.25**			
20″				1 lb.	**63354**	**$429.50**				6 oz.	**63355**	**$343.95**	2 oz.	**63356**	**$61.95**			
24″				1 lb.	**63295**	**$528.95**				8 oz.	**63303**	**$419.25**	2 oz.	**63307**	**$63.75**			
28″				9 oz.	**63297**	**$795.25**				8 oz.	**63305**	**$634.75**	2 oz.	**63309**	**$65.95**			
0.500″ (12mm) Core																		
12″	2 lbs.	**63383**	**$912.25**				7 oz.	**63386**	**$727.25**				6 oz.	**63390**	**$108.75**			
18″	2 lbs.	**63384**	**$1147.95**				10 oz.	**63387**	**$885.75**				6 oz.	**63391**	**$109.50**			

Haglöf

Haglöf Case Hardened Steel Bits
1399

Stronger than regular increment borers!

Constructed of case hardened steel, these 3-thread, alloy-coated bits are stronger and offer greater torque resistance than regular increment borers. Core diameter is 0.200″ (5.15 mm). Extractors and handles sold separately.

6″ Hardened Steel Bit, 3-thread	2 oz.	**63313**	**$144.25**
8″ Hardened Steel Bit, 3-thread	3 oz.	**63314**	**$157.75**
10″ Hardened Steel Bit, 3-thread	4 oz.	**63315**	**$189.75**
6″ Extractor	1 oz.	**63276**	**$28.95**
8″ Extractor	2 oz.	**63277**	**$29.95**
10″ Extractor	2 oz.	**63278**	**$32.75**

Mattson Increment Borers, 3-Thread
1401

These increment borers are tops in extracting a core of wood for determining growth-rate, age, tree soundness, and chemical penetration*!
Each borer features machined brass end caps and extractor cap, plastic-coated handles, and a barrel-shaped tip for easy starting and removal of the borer. 0.202″ (5.15 mm) core diameter. Made of quality Swedish steel.

0.202″ (5.15mm) Core

Bit Length	Complete Borer			Replacement Bits			Replacement Extractors		
	Wt.	SN	$	Wt.	SN	$	Wt.	SN	$
10″	14 oz.	**63421**	**$237.95**	4 oz.	**63432**	**$182.25**	1 oz.	**63443**	**$35.25**
12″	1 lb.	**63422**	**$256.75**	4 oz.	**63433**	**$196.25**	1 oz.	**63444**	**$36.75**
16″	1 lb.	**63423**	**$311.50**	5 oz.	**63434**	**$237.75**	2 oz.	**63445**	**$43.75**

Note: Mattson Replacement Parts are not interchangeable with other brands.
*Increment borer bits should not be used with electric drills.

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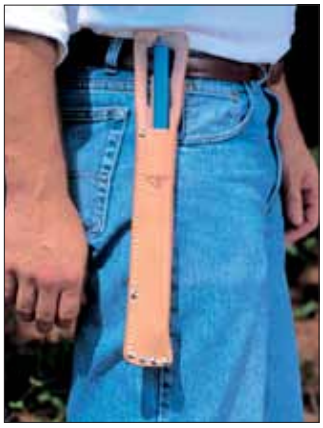
Sharpening Stones, Beeswax, Lubricants
1408

Sharpening Kit – Contains: India Stone, Conical Stone, Single Grit Pocket Stone, Sharpening Stone Oil, Large Cork 8 oz.	63399	$42.95
India Stone – Sharpens lead cutting edge 1 oz.	63403	$15.25
Conical Stone – Sharpens inside cutting edge, outside beveled edge 1 oz.	63404	$17.50
Single Grit Pocket Stone 2 oz.	63405	$6.50
Sharpening Stone Oil – Refined mineral oil for use on sharpening stones. 4-1/2 oz. bottle. 6 oz.	63406	$6.95
Large Cork Work Rest 1 oz.	63407	$1.75
Beeswax – Apply to borer after each use, 1 oz. round block 1 oz.	63000	$1.50



Forestry Suppliers' Increment Borer Holsters
1409

Carry and protect your increment borer with this leather holster. Use with core diameters up to 0.200˝. Friction-fit belt loop.

For 8˝ and 10˝ bits 4 oz.	63413	$10.95
For 12˝ bit 4 oz.	63414	$13.75
For 14˝ bit 4 oz.	63415	$13.95
For 16˝ bit 5 oz.	63416	$14.25

Haglöf Increment Borer Bit Starter
1410

Ideal for long, large borers and dense hardwoods.

Helps start the threads of increment borers in trees, logs, poles or timber. All metal construction, folding chest plate.

Increment Borer Starter	5 oz.	63417	$40.95

JIM-GEM® Increment Borer Bit Starter
1411

Starts 1/2˝ core and 8˝ or longer bits easily, safely.

Positions, holds and steadies bit. Belt reaches around 22˝ diameter trees, but can be used on any size tree by extending belt.

JIM-GEM Increment Borer Bit Starter	1 lb.	63408	$147.50

Haglöf

Haglöf Steel Bits
1403

Made in Sweden

For boring treated lumber and poles.

Use with standard Haglöf extractor and increment borer handle, or with chuck system (63180) and an electric drill. Available in chrome and Teflon® finishes, these bits feature a core diameter of 0.200˝ (5.15 mm) and a 3-thread design for easy penetration. Constructed of quality Swedish steel. **Note:** Increment borers are engineered to be hand tools intended for use only with approved increment borer handles. The use of an increment borer bit in a power drill, or any implement other than the handle it is intended to be used with, will void any expressed or implied warranty.

0.200˝ (5.15mm), 3-Thread Steel Bits

Bit Length	Bit					Manual Extractor			Manual Borer Handle		
	Weight	Non-Stick	$	Chrome	$	Weight	SN	$	Weight	SN	$
4˝	2 oz.	63012	$112.75	63013	$111.75	1 oz.	63306	$29.25	6 oz.	63316	$34.50
6˝	3 oz.	63014	$118.75	63015	$114.95	1 oz.	63276	$28.95	6 oz.	63316	$34.50
8˝	3 oz.	63018	$125.50	63019	$125.95	2 oz.	63277	$29.95	7 oz.	63317	$36.50

Increment Borer Chuck for Electric Drills
1402

For sampling treated lumber.

Core into the sidewall of an individual board to desired depth, and back out the bit. Cores remain inside the bit until next core sampled pushes it out. Drill into the end grain of a board to remove the last core. The end grain core remains in place when the bit is reversed because of the wood's horizontal grain. Use with a minimum drill size of 1/2˝.

Increment Borer Chuck for Electric Drills	11 oz.	63180	$104.95

Note: Do not attempt to use a bit longer than eight inches with a power drill. The use of a power drill with any borer bit, including those listed here, will void any expressed or implied warranty.

BOSCH® 18V Litheon™ Compact Tough™ 1/2˝ Drill Driver
8738

The compact design of this drill driver allows for increased maneuverability in tight spaces and reduces user fatigue. The Durashield™ housing stands up to tough working conditions. High torque mode produces over 500 in.-lbs., and high speed mode produces 1,600 RPM. The ratcheting, single sleeve 1/2˝ chuck allows for one-handed bit changes, and the 20-position clutch provides complete control. The drill driver also features a variable speed wide trigger and an LED light for use in dark or enclosed areas. The Litheon™ batteries provide maximum cyclelife, minimum self-discharge, and no memory effect. Includes two 18V Litheon™ SlimPack batteries, 30-minute battery charger, double-ended bit, and carrying case.

BOSCH 18V Litheon Compact Tough 1/2˝ Drill Driver	10 lbs.	20001	$242.95

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Haglöf

Haglöf Increment Hammer
1417

Takes 1″ long increment cores. Quality steel increment hammer with plastic hand grip, wrist thong, and inch/mm scale on neck.

Haglöf Increment Hammer	C	1 lb.	**59690**	**$109.95**
Replacement Cutting Tube		1 oz.	**59700**	**$41.75**
Replacement Plunger		1 oz.	**59710**	**$20.25**

Haglöf

Haglöf Barktax Bark Gauge
1416

Press against bark until wood is reached and read the scale to determine bark thickness. Spring in handle pushes scale back over bit as it's pulled from tree to protect bit and to safely carry. Gauge is aluminum with steel recessed tip. ABS plastic handle.

Measures 0″ to 2″ in increments of 1/10″	E	3 oz.	**59674**	**$85.95**
Measures 0 to 50mm in increments of 1mm	M	2 oz.	**59680**	**$85.95**

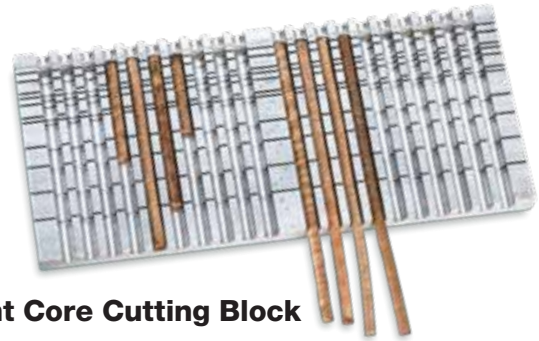
Instructions for using Phloroglucinol can be downloaded from our web site www.forestry-suppliers.com

Increment Core Dye-Phloroglucinol
1405

Helps distinguish annual rings in diffuse porous species.

Stains lignin red, leaves cellulose unstained. A solution of 95% ethyl alcohol and a solution of 50% hydrochloric acid are required. Instructions included.

25 Gram Bottle	2 oz.	**63485**	**$18.75**



Increment Core Cutting Block
1413

Cut up to 20 increment borer samples at a time to lengths of 0.1″ to 3″. Aluminum block is slotted for easy cutting with a razor or X-ACTO® knife in graduations of 0.1, 0.25, 0.5, 0.6, 0.75, 1.0, 1.1,1.6, 2.0, 2.5, 3.0. **Dimensions:** 9″ x 4″ x 1/2″.

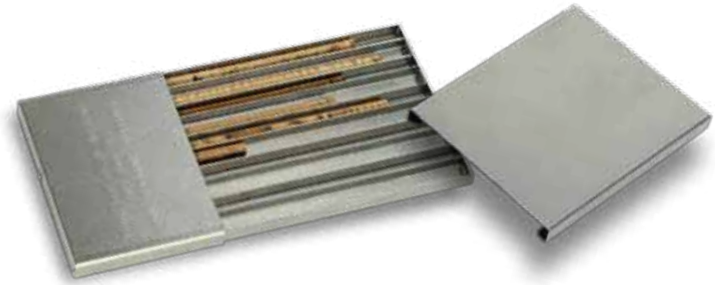
Increment Core Cutting Block	2 lbs.	**63400**	**$111.00**

Plastic Increment Core Holder
1407

Ideal for storing, carrying, handling, studying, or showing increment cores.

Recessed slots let you "snap-in" ten cores. Holds 0.169″ or 0.200″ diameter cores up to 9″ long. Flexible styrene plastic. 8″ x 12″.

Pack of 10 Holders (holds 100 cores)	9 oz.	**63395**	**$17.50**



Aluminum Increment Core Holder
1406

Holds 10 cores, maximum length 6-3/4″. Sliding cover.

Aluminum Increment Core Holder	8 oz.	**63398**	**$40.25**

Increment Core Holder and Case
2087

This durable, waterproof nylon case features a Velcro® closure, belt loop, a PVC window in the front for easy viewing, and a rigid back. The 8″ x 12″ flexible styrene plastic core holder holds 10 cores up to 9″L and can be written on to easily identify jobs.

Increment Core Holder and Case	10 oz.	**63396**	**$24.95**
		5+	**$22.50**

E English
M Metric
C Combination English and Metric

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Forge Echo 912 Forestry Package

Manufacturer's Warranty 2 Year

4662

Measure heights, obtain distances, take GPS coordinates, and collect data with one rugged instrument!

This revolutionary data collector combines a precision GPS, a clinometer tool that calculates slope and vertical angles, and groundbreaking echolocation technology for accurate, easy measurement of elevation changes, distance, and tree heights. In a normal forest setting, the maximum distance for the echolocation function is 75 feet when using the transponder with the 360° adapter and 125 feet when using the transponder alone. An integrated 5 megapixel camera allows for convenient geo-tagging. The Forge Echo 912 features 8 GB of on-board storage, an 800 MHz processor, and both Bluetooth® and Wi-Fi capabilities. Waterproof, shockproof, and dustproof, the device comes standard with a Windows Mobile® 6.5 Classic operating system, a 3.5″ color display, and a full keyboard. Includes transponder, 360° transponder adapter, and transponder pole. Two-year warranty from the manufacturer.

GPS - Receiver Type: 50 channels, GPS L1 frequency, C/A code. **SBAS:** WAAS, EGNOS, MSAS, GAGAN. **Time to Fix:** Cold Start, 29s; Warm Start, 29s; Hot Start, <1s. **Accuracy:** 1 to 3 meters (autonomous); 1 to 2 meters (SBAS); <1 meter (NTRIP/eGPS). **Processor:** 800 MHz. **Non-Volatile Memory:** Flash 8 GB. **Volatile Memory:** 512 MB SDRAM. **Expansion Slot:** Micro SD (up to 32 GB). **Display:** 3.5″ color LCD BLANVieW Transmissive 480 x 640 px (VGA). **Camera:** 5 MP auto focus with LED light; Resolution, 1280 x 960, 2048 x 1536, 2592 x 1944. **Touch Panel:** Analog resistance type. **Keypad:** 30 keys including 7 soft function, alphanumeric, camera, power on/off, Windows. **Visual Indicator:** Tricolor LED, software-controlled. **Audible Beeper:** 80dBa SPL @ 10cm, 3.5kHz, 8 to 10 kHz programmable. **Bluetooth:** Bluetooth Class II, v2.1 EDR. **Wi-Fi:** IEEE 802.11 b/g 54 Mb/s. **Main Battery:** Lithium-ion, 3.7V, 4,000 mAh. **Interface:** USB OTG, RS232. **Operating Temperature:** -4°F to 140°F (-20°C to 60°C). **Dimensions:** 7.9″ x 3.7″ x 1.7″. **Weight:** 15.6 oz. with battery.

Forge Echo 912 Forestry Package	4 lbs.	**09735**	**$2595.00**
Optional High-Vis Orange Cordura Case and Strap	5 oz.	**09733**	**$74.95**
Replacement Plastic Transponder Cone	1 oz.	**09736**	**$55.00**
Replacement Transponder	4 oz.	**09737**	**$250.00**
Replacement Telescoping Transponder Pole	10 oz.	**09738**	**$45.00**
Replacement Lithium Battery	3 oz.	**09734**	**$74.95**

Flint 812 Data Collector

Manufacturer's Warranty 2 Year

2919

This rugged data collector combines an 800 MHz processor, Bluetooth® capability, a high accuracy GPS, a 5 megapixel digital camera, and WiFi connectivity. Use the built-in GPS along with the auto-focus camera for fast, precise geotagging. The Windows Mobile® 6.5 Classic operating system runs a variety of applications. The data collector features a full VGA screen, a MicroSD expansion slot (up to 32GB), and a battery life of 11+ hours. Designed to withstand the harshest working environments, the IP65-rated data collector is dustproof, shockproof, and waterproof. Includes AC wall charger, USB sync cable, two screen protectors, two styluses, wrist lanyard, and user's guide. Two-year warranty from the manufacturer.

GPS - Receiver Type: 50 channels GPS L1 frequency, C/A code. **SBAS:** WAAS, EGNOS, MSAS, GAGAN. **Time to Fix:** Cold Start, 29s; Warm Start, 29s; Hot Start, <1s. **Accuracy:** 1 to 3 meters (autonomous); 1 to 2 meters (SBAS); <1 meter (NTRIP/eGPS).

Camera - Resolution: 1280 x 960, 2048 x 1536, 2592 x 1944.

Processor: 800 MHz. **Volatile Memory:** 256 MB SDRAM. **Non-Volatile Memory:** 2GB flash. **Display:** 480 x 640 pixel (VGA) 3.5″ color LCD BLANVieW transmissive. **Touch Panel:** Analog resistance type. **Keypad:** 9 keys, 4 soft function, camera, and power on/off. **Visual Indicator:** Tricolor LED, software controlled. **Battery:** Lithium-ion polymer, 3.7V, 2,600mAh, USB charging through PCs supported. **Interface:** USB OTG. **Operating Temperature:** -4°F to 140°F (-20°C to 60°C). **Dimensions:** 5.5″ x 3.2″ x 1.3″. **Weight:** 8 oz.

Flint 812 Data Collector	2 lbs.	**34201**	**$1299.00**
L1 Active GPS External Antenna	3 oz.	**34202**	**$350.00**
Replacement Battery	2 oz.	**34203**	**$73.95**

Timber Tools Software

6951

User-friendly software easily and accurately calculates timber volumes.

Data entry is simple. To get started, just choose either calculations of total volume by species or point sampling calculations of species volume per acre. Then, click on a region of the country and a species. Species links provide the average form class for a region for a particular species. You can even define your own form class. Once you enter the number of trees in each dbh/height category, volumes are updated automatically in Doyle, Scribner, and International log rules (with International and Maine rules for spruce and fir). Point sampling calculations are made in much the same way, with you providing the number of sample points and basal area factor (BAF) used. Timber Tools even allows you to enter data in one-inch DBH intervals for ten different form classes. In addition, volumes for new tree heights (1/2, 3/4, 1-1/4, and 1-3/4 logs) are also included. Requires Windows Vista, 95, 98, or NT and Microsoft Excel (version 97 or higher).

Timber Tools Software	▲	4 oz.	**34050**	**$49.95**

▲ Non-returnable if opened

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Tally Book & Sheets
1168

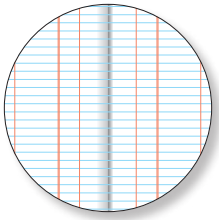
Use in cruising timber or in tallying lumber. Hold 4″ x 8″ tally sheets. Adjustable hand straps on front and back. Bonded leather wear-resistant cover.

Holds four sheets	8 oz.	**53625**	**$45.00**
Holds six sheets	10 oz.	**53627**	**$48.25**
Holds ten sheets	12 oz.	**53628**	**$54.25**

Forestry Suppliers Tally Sheets for Tally Books

Columns for four species, culls, diameters, heights, number of plots, legal description and remarks. 4″ x 8″ Yellow stock.

Pack of 100 Sheets	15 oz.	**53690**	**$4.75**



Rite in the Rain ALL-WEATHER WRITING PAPER

Rite in the Rain® Tally Book
7709

This standard-sized tally book is great for travel anywhere! Filled with 70 leaves printed with Tally Book page pattern. Perfect binding with Field Flex yellow cover. 3-1/2″ x 8″.

Rite-in-the-Rain No. 324, Tally Book	5 oz.	**53612**	**$7.95**
		12+	**$7.50**

Haglöf

Haglöf Tallytax Digital Counter
1171

Pocket-sized digital tally counter features six separate counting units. Each count numerically to 9,999, then alphanumerically up to 35,000 (for example: 10,000 would be displayed as A000.) **Dimensions:** 4-7/8″ x 1-3/8″ x 1″.

Haglof Tallytax	3 oz.	**53033**	**$94.25**
9V Alkaline Battery, single	3 oz.	**02179**	**$3.20**

Digital Counter
8398

Counts from 0 to 99,999. Features button click for count confirmation and recessed "no-accident" reset. The counter is housed in a water-resistant, O-ring-sealed, shock-resistant ABS plastic case and features a belt clip, wrist strap, and carabiner. **Dimensions:** 1-7/8″ x 1/2″.

Digital Counter	2 oz.	**53031**	**$13.50**
		10+	**$11.25**

Multiple Unit Tally Counters
1175

Four-digit counting units count from 0 to 9,999. Black numbers on white background. Zero reset. Base plate is pre-drilled for mounting to work surface. Mounting screws not included.

3 Counting Units	1 lb.	**53118**	**$131.00**
4 Counting Units	14 oz.	**53112**	**$167.00**
5 Counting Units	2 lbs.	**53121**	**$198.00**
6 Counting Units	1 lb.	**53122**	**$238.00**
8 Counting Units	2 lbs.	**53124**	**$301.50**

Heavy Duty Plastic Tally Counter
4090

Counts from 0 to 9,999. Resets to zero by turning one knob. Designed to fit comfortably in your hand. Finger ring attached. Durable plastic housing with metal internal parts. **Color:** White.

Heavy Duty Plastic Tally Counter	2 oz.	**53025**	**$7.95**
		10+	**$6.95**

U.S. Government Type Tally Counter
1172

Counts from 0 to 9,999. Fits comfortably in hand. Finger ring attached. Figures reset to zero by turning one knob. Shiny, plated metal finish. Meets U.S. Government Standards.

Heavy-duty Model, Metal with metal internal parts	3 oz.	**53029**	**$11.95**
		10+	**$11.50**

Base Mount Tally Counter
1173

Counts from 0 to 9,999. Mounted on a 2-1/2″ circular metal plate. Plate is predrilled for attaching to table, wall, belt or work area. No finger ring. Mounting screws not included.

Base Mount Tally Counter	4 oz.	**53035**	**$12.50**
		10+	**$10.95**

Multiple Counting Unit Tally Counters
1174

White digits on black background. Zero reset with knob. Sturdy metal housing. Base plate pre-drilled for mounting. Mounting screws not included.

3 Counting Units/4 digits per unit 0-9,999	12 oz.	**53071**	**$49.50**
5 Counting Units/4 digits per unit 0-9,999	1 lb.	**53072**	**$69.95**

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Forestry Suppliers Plot Center Sticks
1444

Economy Plot Center Stick

All-purpose solid fiberglass plot center stick measures 48″L x 1/2″ diameter. Steel point. Soft, golf club style grip. Can also be used as a walking stick.

Forestry Suppliers Economy Plot Center Stick 14 oz.		**59705**	**$24.95**

Deluxe Plot Center Stick

Versatile stick features sharpened point, soft rubber grip, and solid aluminum shaft. Hi-vis orange, it's easily seen in dense brush and can mark your plot center when timber cruising or conducting inventory work. Engraved Biltmore stick markings help you measure tree diameters from 10″ to 40″ and log heights from one to five logs. In addition, the stick features an integrated 1/4″x 20 thread in the top of the handle. The included stud allows for easy adaptation when using the stick with instruments such as the Haglöf® DME Cruiser or Impulse® Laser Rangefinder. Can also be used as a hiking staff in difficult terrain.

Forestry Suppliers Deluxe Plot Center Stick 3 lbs.		**59706**	**$59.95**
	3+		**$54.95**

Biltmore Sticks
1443

Use to determine number of logs in a tree, diameter, and board footage and to scale logs. Hard maple construction with a brass ferrule on each end, one with a hole for a carrying thong. Black graduations protected by polyurethane plastic coating.

English Biltmore Stick

25″ reach (hold stick 25″ from your eye to measure). Measure diameter 6″ to 74″ by 2″ diameter classes. Measure up to nine 16′ logs. Stick graduated 0 to 37″, by consecutive inches, 1/2″ subdivisions. Scale logs from 6″ to 37″ diameter using Decimal C scale (board foot) value for 16′ logs.

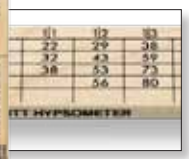
Biltmore Stick 9 oz.	E	**59780**	**$61.95**
		5+	**$59.25**

Metric Biltmore Stick

64 cm Reach. Measure diameter to 200 centimeters by 2.5 centimeter diameter classes. Measure height to 45 meters by 5 meter log lengths. Length measure is graduated 0 - 100 by consecutive centimeters.

Biltmore Stick 10 oz.	M	**59781**	**$64.95**
		5+	**$62.25**

Tree and Log Scale Stick
1441



Measure diameters from 10″ to 40″ by 1″ diameter classes, and heights up to five 16′ logs. Determine board foot volumes of standing trees (form class 78) up to 40″ dbh and five 16′ logs. Scale logs 6″ to 31″ diameter with volumes printed on stick for 8′, 10′, 12′, 14′, 16′, and 18′ log lengths. Comfortable 25″ reach. Sturdy hardwood with easy-to-read black graduations protected by clear varnish coating. Instructions included. 31-1/2″L x 1-5/16″W x 5/18″H.

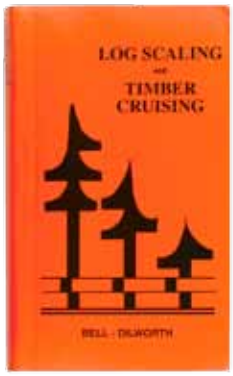
Tree and Log Scale Stick, Doyle Scale 7 oz.		**59750**	**$14.50**
		10+	**$13.25**
Tree and Log Scale Stick, Scribner Scale 6 oz.		**59760**	**$14.50**
		10+	**$13.25**
Tree and Log Scale Stick, International 1/4″ Scale 7 oz.		**59770**	**$14.50**
		10+	**$13.25**

Forestry Suppliers Steel Diameter Tape page 76

Log Rules and Other Useful Information
1371

Pocket-sized booklet contains: the three major log rules; log scaling information; conversion factors; tables for computing board feet; weights of various woods (by the cord, MBF, green and dry); weight conversion factors, and more. 28 Pages.

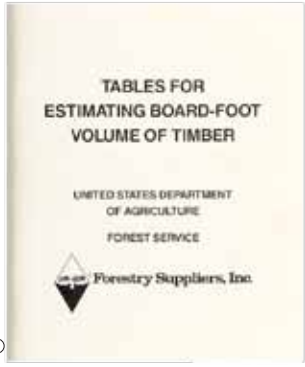
Log Rules and Other Useful Information	2 oz.	**59984**	**$6.75**



Log Scaling and Timber Cruising
1372

By John F. Bell and the late J. R. Dilworth, Oregon State, 1993. Concise information, including Variable Plot and 3P Cruising (and a method for combining these surveys); regeneration surveys; taper equations; V-Bar measurements; and $-Bar assessment. Deals primarily with western timber, but has been used throughout the United States and Canada. 124 pages of tables including cubic-foot volume, board foot volume and more. 5″ x 6-1/2″ x 1″, with plastic covers. 439 Pages.

Log Scaling and Timber Cruising	12 oz.	**59746**	**$30.75**



JIM • GEM

JIM-GEM® Tables for Estimating Board-Foot Volume of Timber
1349

By Mesavage and Girard, U.S. Forest Service. Pocket-sized book presents tables listing gross volume in board feet by diameter classes and by number of 16′ logs per tree. Maximum 40″ dbh, six logs. Tables for International 1/4″ rule, Scribner rule and Doyle rule. **Size:** 4″ x 5″. 94 Pages.

JIM-GEM Tables	2 oz.	**59335**	**$8.30**
		6+	**$7.50**

E English M Metric

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Conway Cleveland Lumber/Board Rules
1448

For measuring board foot volume of dried lumber. Flexible hickory shaft and hardened, stainless steel head with sharpened pre-bent points for grabbing lumber. First 6″ from head graduated to inches and eighths for measuring lumber thickness. Walnut wedge handle. Black graduations protected by polyurethane coating.

3-Line Rule

For 8′, 10′, 18′ and 12′, 14′, 16′ lumber lengths. Vertical one-half foot markings.

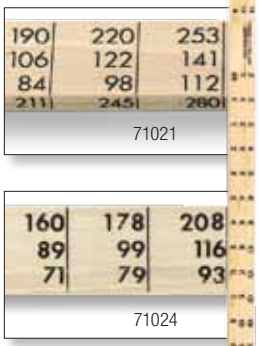
Model 112 – Rule shaft 1″ x 24″ 6 oz.	**71211**	**$55.25**
Model 104 – Rule shaft 3/4″ x 36″ 6 oz.	**71101**	**$55.25**
Model 101 – Rule shaft 7/8″ x 36″ 6 oz.	**71103**	**$55.25**
Model 300NL – Rule shaft 1″ x 39″ 7 oz.	**71210**	**$58.25**

4-Line Rule

For odd and even lengths, 9′, 11′, 13′, 15′ lumber lengths and 10′, 12′, 14′, 16′ lumber lengths.

Model 200N – Rule shaft 1″ x 36″. Straight head. 7 oz.	**71102**	**$55.25**
Model 400N – Rule shaft 1″ x 36″. Notched head. 6 oz.	**71104**	**$56.95**

Conway Cleveland Log Rules
1449



For determining board foot lumber volume in logs. Hickory stock with shaped wedge handle. Black graduations are protected by two coats of polyurethane. Stainless steel oval heads. **Scales:** 8′, 10′, 12′, 14′, 16′, 18′ and 20′ logs and inch rule. For scaling logs up to 36″ diameter.

Doyle Scale - For logs up to 36″ dia. 11 oz.	**71021**	**$60.75**
Scribner Scale - For logs up to 36″ dia. 11 oz.	**71024**	**$60.75**
Scribner Decimal C Scale - For logs up to 36″ dia. 11 oz.	**71029**	**$60.75**
International 1/4″ Scale - For logs up to 36″ dia. 11 oz.	**71032**	**$60.75**

P-4000 Metal Detector for Logs
page 97

Spencer® Scaler
1447

Scribner Decimal C Scale readings to the nearest 10 board feet for 12′, 14′, 16′, 18′, 20′, 22′ and 24′ logs. Automatic-rewind with brake. Tape is 6′ in inches with black graduations on yellow background. Quality ABS plastic case.

Spencer Scaler	5 oz.	**71164**	**$17.75**

Spring Joint Log Rule
1450

For scaling logs or common measuring. Pocket-sized: 5/8″ wide, 7-1/2″ long, 48″ long open. Folding end hook. Black graduations on white background. Doyle, with scale volumes for 10′, 18′ logs one side, 12′, 14′, 16′ logs other side.

Spring Joint Log Rule	4 oz.	**71010**	**$18.25**
		12+	**$16.95**

Forestry Suppliers Pole Tape
2254

23″ Diameter in inches and 10ths on one side, 72″ linear in inches and 16ths on the other side. Consecutive front and back graduations allow you to determine both the circumference and diameter of poles/pole timber. Spacing before "zero mark" permits overlap of tape for more accurate readings. Extra heavy chrome steel line with black markings. Ring on one end. 1/4″W x 72″L.

Forestry Suppliers Pole Tape	E	2 oz.	**59720**	**$19.95**

Forestry Suppliers, Inc. Forester's Clipboard
6906

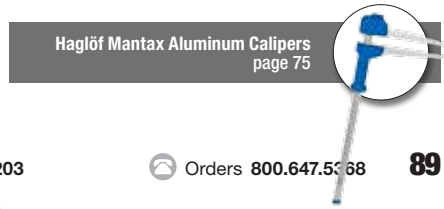
Features tables for Doyle, Scribner, and International Log Rules.

This clipboard also has convenient lumber conversion tables, including volume equivalents for lumber, volume conversion factors for lumber, and a diameter-to-circumference conversion table. Constructed of recycled plastic. Standard spring-action clip.

Forester's Clipboard, 9″ x 12-1/2″	11 oz.	**53000**	**$9.95**
		6+	**$9.70**

Hand-Held Tally Books
page 87

Haglöf Log Tag Hammer
page 95



Haglöf Mantax Aluminum Calipers
page 75

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DELMHORST INSTRUMENT CO. WHEN ACCURACY IS THE POINT. — 1 Manufacturer's Warranty 1 Year

New! Delmhorst® TechScan™ Pinless Moisture Meter

4855

Check wood, drywall, concrete, and other building materials without damaging the sample area!

Providing fast, accurate readings, this pinless meter locates moisture "hot spots" and helps to narrow down areas affected by moisture. The meter's sensor measures moisture up to 3/4″ deep using patented sensor technology. The meter features two scales: a wood scale (5% to 30% moisture range) and a reference scale (0 to 100 color-coded scale for non-wood building materials). An adjustable alarm alerts you when a pre-selected moisture level is reached, allowing comparison to an established dry standard. The hold function lets you take readings even in hard-to-reach areas. The meter features an easy-to-read analog display, built-in calibration check, and a rugged housing. Plastic carrying case included. One-year warranty from the manufacturer.

Operating Temperature: -4°F to 158°F (-20°C to 70°C). **Power:** One 9V battery (included). **Dimensions:** 5-5/8″ x 3-5/16″ x 1-1/4″.

Delmhorst TechScan Pinless Moisture Meter 2 lbs.	**79440**	**$384.50**

DELMHORST INSTRUMENT CO. WHEN ACCURACY IS THE POINT. — 1 Manufacturer's Warranty 1 Year

Delmhorst® BD-2100 Moisture Meter

2776

Check moisture levels in wood, concrete, EIFS, sheetrock, and other materials.

Features three scales – for moisture measurement of wood (6% to 40%), a gypsum scale for measurement of sheetrock (0.2% to 50%), and a 0 to 100 reference scale for measurement of other non-wood materials. Results are shown on a digital display, and up to 100 accumulated readings can be averaged. A set-point alerts you when a pre-selected moisture content is reached. The meter also features proven microcontroller circuitry and easy one-hand operation. Carrying case, extra contact pins, and 9V battery included. One year manufacturer's warranty.

Delmhorst BD-2100 Moisture Meter 2 lbs.	**79326**	**$359.00**
Replacement Pins w/retainers, Pack of 24 3 oz.	**79356**	**$53.95**

DELMHORST INSTRUMENT CO. WHEN ACCURACY IS THE POINT. — 1 Manufacturer's Warranty 1 Year

Delmhorst® J-Series Compact Wood Moisture Meters

1461

Obtain surface and core wood moisture readings.

These compact meters allow quick, easy, and accurate tests for both surface and core (requires optional electrode sold separately) moisture content of wood. Simply insert the contact pins into wood and press the read button. Moisture content is instantly displayed. Use the integral contact pins (included) to penetrate 5/16″ for up to 6/4 stock. Attach any optional Delmhorst electrode through the built-in port for greater versatility on heavier stock. Each model includes 2 extra contact pins, protective carrying case, and instruction manual.

Delmhorst® Model J-2000 Wood Moisture Meter

Results are displayed on a digital LCD readout. Meter features a microcontroller circuit that corrects for individual species and temperature and will display the average and highest of up to 100 stored readings. Backed by Delmhorst for one year.

Moisture content range: 6% to 40% with 0.1% resolution. **Battery:** 9V alkaline battery (included). **Dimensions:** 7-1/2″ x 3″ x 1-3/4″.

Model J-2000 2 lbs.	**79442**	**$328.00**

Delmhorst® Model J-4 Wood Moisture Meter

Read moisture level results using this meter's analog readout. Species and temperature correction charts included. Backed by Delmhorst for one year.

Moisture content range: 6% to 30%. **Battery:** 9V alkaline battery (included). **Dimensions:** 7-1/2″ x 3″ x 1-3/4″.

Model J-4 2 lbs.	**79424**	**$266.50**

Delmhorst® Hay Moisture Meter page 287

Electrodes For Delmhorst Moisture Meters

1462

Model BD-2100 (79326), J-Series (79442, 79424), TotalCheck (79447), RDM-3 Plus (79445), and Model RC-1E (79341).

Type 26-ES Two-Pin Hammer Probe Electrode

1-1/8″ penetration. Sliding hammer action on a 10″ steel shaft. For measuring moisture gradient shell and core tests and for testing dry stock which may be wet on the surface.

Insulated Electrode	3 lbs.	**79339**	**$128.50**
Replacement Pins, Pack of 24	2 oz.	**79331**	**$61.50**

Type 18-ED Two-Pin Hammer Probe Electrode

3-1/4″ penetration. Similar to Model 26-ES Electrode above except with sliding hammer action on a 17″ steel shaft. For measuring moisture content of timbers, poles and ties. Also features a depth gauge which shows penetration.

Insulated Electrode	4 lbs.	**79344**	**$154.00**
Replacement Pins, Pack of 4	1 oz.	**79333**	**$52.50**

Type 2-E Two-Pin Electrode

Fitted with 5/16″ penetration pins. Great for use on wood, plaster, masonry, and even timber, poles, veneer, etc.

2-E Electrode	9 oz.	**79441**	**$72.00**
Replacement Pins w/retainers, Pack of 24	3 oz.	**79356**	**$53.95**

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DELMHORST INSTRUMENT CO. WHEN ACCURACY IS THE POINT.

1 Manufacturer's Warranty 1 Year

Delmhorst TotalCheck Moisture Meter Kit

8218

The TotalCheck three-in-one meter offers scan and pin moisture modes and a thermo-hygrometer that measures ambient Temperature and RH plus it calculates Dew point and GPP. The RH sensor is removable and conforms to the ASTM F-2170 standard to determine if concrete floors have dried adequately before installing a floor covering. Features include a connector for external electrodes, an on-screen reading recall of up to 1400 stored readings, a date and time stamp for each stored reading, job groupings, infrared linking to PC or laptop, and application software for generating reports and managing data. Comes complete with a RHT-S1 humidity sensor, carrying case, 26-ES electrode, and (10) #496 pins.

Pin Mode: Wood Scale, 5%-60%; Sheetrock Scale, 0.1% to 6%; Non-Wood Building Materials, 0–100 numerical reference scale. **Scan Mode:** 0–200 numerical reference scale. **Temperature Range:** -4 to +158°F/ -20 to +70°C. **RH Range:** 0–100%. **Battery:** one 9V. **Warranty:** 1 year from the manufacturer.

Total Check Moisture Meter	6 lbs.	**79447**	**$938.00**
PC Interface Kit	1 lb.	**79434**	**$166.50**
2″ Concrete Sleeve	1 oz.	**79448**	**$2.75**

DELMHORST INSTRUMENT CO. WHEN ACCURACY IS THE POINT.

1 Manufacturer's Warranty 1 Year

Delmhorst® RDM-3 Moisture Meter

8140

The RDM-3 is a handheld moisture meter packed with features including a full on-screen reading recall for up to 1,400 stored readings with date and time stamp, job grouping, graphical display, easy-to-navigate menu options, and a customizable auto-shut off. It also includes built-in wood species corrections for 71 species of wood and built-in temperature compensation over the range of 0° to 255° F (-18° to 124°C). Other features include integral contact pins mounted on top of the meter that provide 5/16″ penetration and a connector for an external electrode. A carrying case and an extra set of pins are included.

Range: 6-60% MC depending on species/temperature. **Resolution:** 0.1% MC. **Operating Temperature:** -4°F to 158°F (-20°C to 70°C). **Calibration:** Factory calibrated for Douglas Fir at 70°F. **Power:** one 9V battery (included). **Warranty:** 1-year from the manufacturer.

Delmhorst RDM-3 Moisture Meter	2 lbs.	**79445**	**$507.50**
PC Interface Kit – download stored readings from the meter to a PC via infrared linking.	1 lb.	**79434**	**$166.50**

agraTronix™

Agratronix™ WCT-1™ Wood Chip Moisture Tester

7966

This tester provides accurate moisture measurements of the wood chips and sawdust found in chainsaw debris and also measures moisture in wood pellets and normal sawdust. Using a sample across the whole wood, this tester's results are more accurate and representative than measurements obtained with traditional testers that utilize pins on the surface of the wood only.

Operating Range (Moisture): Chainsaw Wood Chips/ Sawdust, 15% to 65%; Wood Pellets, 4% to 23%; Normal Sawdust, 6% to 30%. **Display Resolution:** 0.1% moisture. **Power:** 9V battery (not included).

WCT-1 Wood Chip Moisture Tester	2 lbs.	**79302**	**$442.95**
9V Alkaline Battery, single	3 oz.	**02179**	**$3.20**

agraTronix™

Agratronix™ WCT-2™ Wood Chip Moisture Tester

7966

Designed for testing the moisture content of logging residue, the tester can obtain measurements directly from a load of material or from a sample gathered into a bucket. Measurements are taken from a 7.75″ diameter zone between the metal tip of the probe and the dish portion of the tester. **The tester features four scales for various types of residue:** wood chips, fine logging residue chips, medium-sized logging residue chips, and coarse logging residue chips.

Operating Range (Moisture): Wood Chips, 12% to 40%; Logging Residue/Brash/Slash, 30% to 70%. **Display Resolution:** 0.1% moisture. **Power:** 9V battery (not included).

WCT-2 Wood Chip Moisture Tester	3 lbs.	**79303**	**$468.75**
9V Alkaline Battery, single	3 oz.	**02179**	**$3.20**

DELMHORST INSTRUMENT CO. WHEN ACCURACY IS THE POINT.

Delmhorst® Model RC-1E Wood Moisture Detector

1460

Ideal for testing hot lumber from the kiln.

This detector measures in three ranges: 6% to 11%, 11% to 25% and 25% to 80%. Calibrated using Coastal Douglas Fir, it gives you accurate moisture measurements for most U.S. wood species, especially in the important 6 to 11% range. **Electrodes sold separately on opposite page.**

Size: 6-1/2″ x 8″ x 3″. **Weight:** 3-1/2 lbs. (without electrode). **Range:** 6-80%. **Batteries:** two 9V (included). Battery check allows you to make sure meter is working properly. **Accuracy:** reads to within ±1/2% of moisture content (6% to 12% range), ±1% (12% to 18% range), ±2% (18% to 25% range).

Delmhorst Model RC-1E Wood Moisture Detector	4 lbs.	**79341**	**$497.50**

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PROTIMETER

Protimeter® Mini C Wood Moisture Meter

Manufacturer's Warranty 2 Year

1457

Uses LED indicator with a green, yellow, and red scale to measure moisture from 6% to 30%, with ±1% accuracy. Readings above 30 are a relative scale and show increasing levels of moisture, not true % moisture. Automatic switch turns Protimeter on when cap is removed. To use, just press probes into the surface you're testing. Measures % moisture in over 150 species of wood, including Eastern white pine, lodgepole pine, red oak, white oak, and walnut. Calibration booklet included to help you with many more species. **Package includes:** Protimeter and cap, calibration chart, calibration check, carrying case, and 9V battery.

Mini C Wood Moisture Meter	8 oz.	**79636**	**$163.95**
		3+	**$153.25**
9V Alkaline Battery, single	3 oz.	**02179**	**$3.20**

PROTIMETER

Mini Moisture Meter with Remote Probe

Manufacturer's Warranty 2 Year

7001

The Professional's Choice!

Provides you with instant moisture readings from 6% to 90% in many materials including wood, dry wall, concrete and masonry. 60 Bright LED lights range from green to yellow to red and are an indication of the likelihood of decay. Other features include remote pin measurement, auto shut-off, low battery warning, calibration check device and a pin protection cap. The exterior jack plug socket enables the connection of the standard extension probe for easier reading in awkward areas. Spare pins, a pouch and a Timber Calibration Chart (150 species) are included. Operates on one 9V battery (included).

Protimeter Mini	10 oz.	**79346**	**$202.50**
		3+	**$183.75**
9V Alkaline Battery, single	3 oz.	**02179**	**$3.20**

PROTIMETER

Timbermaster Mini

Manufacturer's Warranty 2 Year

2769

The professional's choice for precise moisture measurement! Simple to use, this meter is ideal for a range of quality control applications associated with the production, trading, and use of wood products. Eight calibration scales allow you to take accurate moisture measurements to 1/10 of 1% in 150 wood species. Other features include a large LCD display, auto temperature compensation, auto shut-off, low battery warning, pin protection cap, remote pin measurement and a 2-year warranty from the manufacturer. The instrument is supplied with pouch, moisture probe, two AA batteries, instructions, and a timber calibration chart.

Range: 7% to 99.9%. **Resolution:** 1/10th of a %.

Protimeter Timbermaster Mini	10 oz.	**79620**	**$325.95**
AA cell Alkaline Batteries, pack of 4	7 oz.	**02352**	**$3.25**

Accessories for Protimeter® Mini C, Mini Moisture Meter, Timbermaster Mini and Surveymaster

1457, 7001, 2769, 1458

1″ Replacement Needle, each	1 oz.	**79349**	**$1.75**
Optional Hammer Probe with Insulated Pins (maximum measurement depth of 1-1/2″)	4 lbs.	**79628**	**$224.25**
Hammer Probe Replacement Pin, each (two required)	1 oz.	**79629**	**$9.75**

New! Protimeter® Surveymaster™ Dual-Function Moisture Meter

1458

This rugged, dependable meter features two operational modes for use in assessing building moisture levels and distinguishing between sub-surface and surface moisture. In Search Mode, the meter uses a non-invasive pinless radio frequency to find moisture up to 3/4″ (20mm) beneath the surface of solid walls and floors independent of surface conditions. The relative moisture level is shown on the digital display, and moisture condition is represented by a scale of color-coded lights. For measurement of the moisture level at the surface and at incremental depths, use the Measure Mode along with the pin-type probes or the included deep wall probes. Readings are precise and specific to the immediate area of contact of the electrodes. Actual moisture content of wood is shown on the digital display, and the corresponding moisture condition is indicated via color-coded lights. In addition, Wood Moisture Equivalent (WME) values are displayed for other non-conductive, porous building materials. Reference Mode can be used in either Search Mode or Measure Mode to establish which materials are above or below a point of reference or dry standard. The meter features a digital LCD backlit display, auto shutoff, and a hold function. Includes instrument, 5″ deep wall probes, moisture probe, calcheck, two spare pins, pouch, and instructions. Two-year manufacturer's warranty.

Range: 70 to 999 relative (non-invasive); 7.9% to 99% WME (pin measurement). **Power:** One 9V battery (included). **Dimensions:** 7.5″ x 2.75″ x 1.9″. **Weight:** 8 oz.

Surveymaster Dual-Function Moisture Meter	1 lb.	**79431**	**$598.75**
9V Alkaline Battery, single	3 oz.	**02179**	**$3.20**

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Flir® E Series Thermal Imaging Cameras

8584

These infrared cameras utilize MSX® (Multi-Spectral Dynamic Imaging) technology to ensure extraordinary image detail! MSX technology adds visible spectrum definition to images by detecting the edges of objects and incorporating that detail in the thermal images. Text is even clearly visible within an infrared image, allowing you to read labels or identifiers. Simple to operate, the on-board 640 x 480 digital camera features a focus-free lens, a 3″ color LCD, and easy button navigation to on-screen settings. You can view thermal, visual, and MSX images, all of which can be simultaneously stored for further analysis. Includes power supply/charger with four plugs, rechargeable battery, Flir Tools software, USB cable, and hard transport case. Two-year warranty on camera, five-year warranty on battery, and ten-year warranty on detector. Find more Flir E Series Thermal Imaging Cameras on our website.

Accuracy: ±2% or 2°C. **Emissivity Correction:** Variable from 0.1 to 1.0. **Temperature Range:** -4°F to 482°F (-20°C to 250°C). **Battery Type:** Li-Ion. **Battery Life:** 4 hours. **Weight:** 1.27 lbs.

E4 Thermal Imaging Camera

Pixels: 4,800 (80 x 60). **Thermal Sensitivity:** <0.15°C. **Measurement Modes:** Spot (center) mode.

E4 Thermal Imaging Camera	R	7 lbs.	**89260**	**$995.00**

E5 Thermal Imaging Camera

Pixels: 10,800 (120 x 90). **Thermal Sensitivity:** <0.10°C. **Measurement Modes:** Spot (center) and area box (min/max) modes.

E5 Thermal Imaging Camera	R	6 lbs.	**89261**	**$1495.00**

R Cannot be sold internationally

89260

89261

EXTECH INSTRUMENTS

Pinless Moisture Psychrometer + IR Thermometer

7619

8-in-1 Meter with patented built-in IR thermometer measures humidity, air temperature (with built-in probe) plus non-contact InfraRed temperature! The pinless moisture sensor allows you to monitor moisture in wood and other building materials with no surface damage while the remote pin-type probe provides contact moisture readings (3ft/0.9m cable length). Select from multiple wood types and measurement ranges. Other features include: easy to read, large dual display with backlight; simultaneously displays percent moisture of wood or material being tested and air temperature, IR temperature, or humidity; built-in humidity/temperature probe measures relative humidity, air temperature plus grains per pound (GPP), dew point (DP), and vapor pressure; programmable high/low moisture and humidity alarms; automatic calculation of differential temperature (IR - DP) to determine condensation point; and min/max and data hold, auto power off. Complete with battery and pouch case.

Sensor Type: non-penetrating. **Pinless Moisture:** 0 to 99.9 (Relative). **Pinless Depth:** up to 0.75″ (19mm). **Pin-type Moisture (probe included):** 0 to 99.9%. **Max Resolution:** 0.1, 0.1°F/°C. **Humidity:** 0 to 100%RH. **Temperature (Air):** -20°F to 170°F (-29°C to 77°C). **Temperature (IR):** -4°F to 392°F (-20°C to 200°C). **Vapor Pressure:** 0 to 20.0kPA. **Dew Point:** -22°F to 199°F (-30°C to 100°C). **Mixing Ratio:** 0 to 999GPP (0 to 160g/kg). **Field of View:** 8:1 Distance to Target ratio. **Emissivity:** 0.95 fixed. **Dimensions:** 6.5″ x 2.8″ x 1.5″. **Weight:** 7.4 oz.

Pinless Moisture Psychrometer + IR Thermometer	C	2 lbs.	**79329**	**$529.00**

EXTECH INSTRUMENTS

Extech® Carbon Monoxide (CO) Meter

8586

Easily check the carbon monoxide level in all environments up to 1,000ppm with this pocket size meter. Ideal for use in ambient air safety checks on residential appliances, home inspections, industrial environments where the accumulation of CO is possible, and HVAC service on furnaces and hot water heaters. The meter utilizes a stabilized electrochemical gas specific sensor and features one-button operation. An audible alarm sounds at 35ppm with continuous beeping above 200ppm. The memory stores 10 readings. Other features include max hold, data hold, backlit display, and auto power off. Comes complete with 9V battery, protective rubber holster, and carrying case. CE approved. One-year manufacturer's warranty.

Range: 0 to 1,000ppm. **Resolution:** 1ppm. **Accuracy:** 5% or ±10ppm. **Sensor Life:** 3 years (typical). **Power:** one 9V battery. **Dimensions:** 6.3″ x 2.2″ x 1.57″. **Weight:** 6.35 oz.

Extech Carbon Monoxide (CO) Meter		13 oz.	**23306**	**$249.99**

EXTECH INSTRUMENTS

Extech® Pocket Moisture Meter

2996

Measures moisture in wood and other building materials.

Use this compact meter to obtain moisture measurements in wood, wall board, sheetrock, cardboard, plaster, concrete, and mortar. The meter features a 2-in-1 digital LCD readout and analog bar graph. A built-in battery check and measurement verification test ensure accuracy of the readings. Other features include auto power-off to conserve battery life, impact-proof housing, and a belt clip. Includes a protective cap, spare electrode pins, and three CR-2032 button batteries.

Moisture Range: Wood, 6% to 44%; Other Building Materials, 0.2% to 2.0%. **Basic Accuracy:** Wood, ±1%; Other Building Materials, ±0.1%. **Measurement Principle:** Electrical resistance. **Electrode Length:** 0.3″. **Operating Temperature:** 32°F to 104°F (0 to 40°C). **Operating Humidity:** 85% Relative Humidity maximum. **Power:** Three CR-2032 button cells (included). **Dimensions:** 5.1″ x 1.6″ x 1.0″. **Weight:** 3.5 oz.

Extech Pocket Moisture Meter		8 oz.	**79321**	**$99.95**

Rite in the Rain® Field Books
page 553

Haglöf Digitech Professional II Computer Calipers
page 73

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Conway Cleveland Crayon Holder
7723

Holds a standard 1/2″ diameter hexagon-shaped crayon. Features a brass holder/plunger. Turned ash handle is coated with two layers of polyurethane to protect against wear. **Length:** 36″.

Conway Cleveland Crayon Holder 12 oz.		**71140**	**$70.25**

Crayon Holder with 36″ Extended Handle
1237

Crayon Holder with 36″ Extended Handle 7 oz.		**71138**	**$27.75**

Diagraph GPX Classic Paint Markers
2793

Valve action markers allow control of paint flow while keeping the paint in the barrel from drying out when the cap is off. Clearly marks on dark or light surfaces. Great for metal, wood, corrugated, rubber, plastic, glass and other hard to mark surfaces. Safe for most porous and non-porous surfaces.

Black	Blue	Orange	Red	White	Yellow	Wt.	Each	12+	24+
46057	**46058**	**46059**	**46060**	**46061**	**46062**	1 oz.	**$2.95**	**$2.65**	**$2.30**

Ideal-Mark Leakproof Indelible Marker
1245

Ideal for freehand marking, printing, writing on any surface – smooth or rough. The felt tip is fed through the pressure sensitive, positive action valve. 5-1/2″L closed.

	Wt.		Black	Red	Each	24+	48+
5-1/2″L closed	1 oz.	!	**61425**	**61426**	**$3.45**	**$3.10**	**$2.70**
12 Repl. Tips	1 oz.		**61424**	**61424**	**$9.50**		

Dixon Redimark® Permanent Ink Marker
1244

Writes on glass, plastic, metal, cellophane and paper. Dries instantly for permanent color. Resists water and fading. Black ink with chisel point, 6-1/4″L closed.

Dixon Redimark Permanent Ink Marker	!	1 oz.	**45899**	**$2.45**
			12+	**$2.10**
			60+	**$1.55**

Fine Point Sharpie® Marker
8648

Permanent on most hard surfaces. Fade- and water-resistant ink is quick-drying. AP Certified nontoxic. 1.0mm.

Fine Point, Black	!	1 oz.	**61435**	**$2.30**
			12+	**$1.85**
			36+	**$1.40**

King Size Sharpie® Marker
8648

Oversized felt chisel tip for highly visible lines on cardboard, wood, metal, stone, plastic, leather and other items. Water-resistant ink dries quickly and can even mark on wet and oily surfaces. Tough aluminum barrel. 5.25″L x 3/4″ Dia.

King Size, Black	!	2 oz.	**61436**	**$2.45**
			12+	**$2.00**
			36+	**$1.60**

Dixon Lumber Crayons
1236

Waterproof, fadeproof, smearproof. Hexagon shape. Measure 4-1/2″ x 1/2″. Box of 12.

Markal® Paintstik "B"
1239

Long-lasting, fade-resistant, waterproof, weather-resistant. Measures 4-1/2″ x 11/16″. Box of 12.

	Wt.	White	Black	Yellow	Orange	Red	Blue	Green	Purple	Fl. Pink	Each	6+	12+
Lumber Crayons	10 oz.		**71124**							**71110**	**$8.95**	**$8.25**	**$7.75**
	11 oz.			**71125**				**71123**			**$8.95**	**$8.25**	**$7.75**
	12 oz.					**71126**	**71127**		**71183**		**$8.95**	**$8.25**	**$7.75**
Paintstik "B"	1 lb.	**71141**									**$14.50**	**$13.75**	**$12.95**
	1 lb.		**71142**		**71145**	**71144**	**71146**				**$15.25**	**$14.50**	**$13.50**
	1.25 lbs.			**71143**							**$14.75**	**$14.25**	**$13.25**

Lumber Crayon Holders
1237

4-3/4″ Crayon and Pencil Holder	1 oz.	**71137**	**$12.25**
4-3/4″ Crayon Holder with plastic cap, leather strap	1 oz.	**71136**	**$9.75**
4-3/4″ Heavy-Duty Crayon Holder with brass cap, leather strap	2 oz.	**71135**	**$11.75**

Railroad Chalk
1241

Measures 4″ x 1″. For temporary marking. Box of 72 chalk sticks.

White	5 lbs.	**71189**	**$13.50**
Yellow	5 lbs.	**71192**	**$13.50**
Blue	5 lbs.	**71190**	**$13.50**

Jumbo Chalk Holder
1243

Use with Railroad Chalk. Measures 4-3/4″ L. Leather strap.

Jumbo Chalk Holder 2 oz.		**71134**	**$13.25**

! Extra Charge if Shipped by International Air. See Shipping Information for details.

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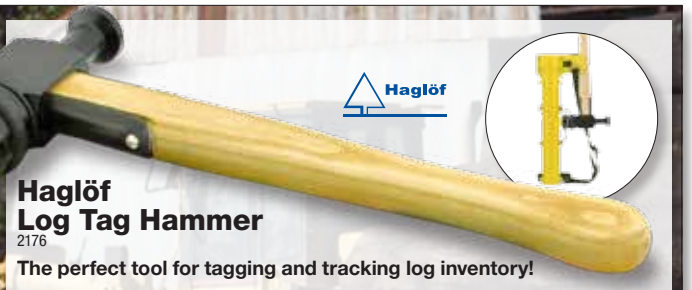

Haglöf Log Tag Hammer
2176

The perfect tool for tagging and tracking log inventory!

Use this log tag hammer to quickly and easily drive in log identification tags. An optional automatic tag holder conveniently dispenses one tag at a time. Just place the strip of tags in the holder, and then retrieve each tag as you need it. The tabs on the tags fit onto the head of the log tag hammer so that the tag is then in place to be driven in. The tag holder also features a built-in holster for the log tag hammer and an adjustable shoulder strap.

Log Tag Hammer	2 lbs.	**79510**	**$189.25**
		2+	**$175.75**
Automatic Tag Holder	1 lb.	**79512**	**$164.95**
		2+	**$153.95**

Haglöf Log Tags

Choose the customized tags you need! The two types of bar code tags are compatible with bar code reading systems and are available in a bar code with a break-off control coupon and a large size tag with a bar code. Numbered tags are available in three styles – number and name, number only, or number and name with break-off number coupon. When ordering, please specify tag color, numbering sequence, and any custom labeling or graphics which you want to appear on the tags. Box of 1,000 tags (25 strips of 40 tags).

Tag with Break-Off Control Coupon and Bar Code	Large Tag with Number, Name, and Bar Code	Large Tag with Number and Name	Tag with Number Only	Tag w/Number and Name with Break-Off Number Coupon
4 lbs.	4 lbs.	4 lbs.	4 lbs.	4 lbs.
79515	**79516**	**79517**	**79518**	**79519**
$199.50	**$197.50**	**$180.25**	**$157.50**	**$180.25**

Note: Please allow 4 to 6 weeks for delivery.

Waxlor End Sealant
2067

Forms a clear barrier of protection. This high-grade, water-based wax emulsion sealant protects against moisture absorption and minimizes checking and splitting on the end grain surfaces of logs and lumber. Apply with a brush, roller, or spray equipment. For best results, apply as soon as possible after cutting or trimming. **Color:** Clear. **Note:** Other colors available upon request. Call for details.

5 Gallons	43 lbs.	**71105**	**$75.50**
		6+	**$71.75**

Haglöf "S" Hooks and Hammer
4559

Designed to prevent slits and splits in logs that have not yet been processed, these plastic hooks are strong, flexible, and rupture-resistant. Timber can be machined with the hooks still in place without damaging wood processing tools. The plastic hooks have no effect on metal detectors and are steam- and hot water-resistant even inside ovens and wood dryers. Use the S-Hook Hammer (sold separately) to drive hooks into place. **"S" Hook Dimensions:** 4″ x 1.5″ x .75″.

"S" Hooks, Box of 1,000	O	22 lbs.	**79501**	**$254.50**
S-Hook Hammer		9 lbs.	**79502**	**$375.50**

O Oversize. Ships at Oversize rate. See Shipping Information for details.

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Log Hauler
4464

Perfect for a variety of applications, this log hauler can transport logs up to 12′ long and 24″ in diameter with ease. By using a leverage arch in conjunction with a worm gear winch, the log hauler can transport logs over even the roughest terrain without leaving a drag trail. The ability to hoist the log above the ground makes the log hauler ideal for landscape applications and for use in other delicate environments. Attachment is a 2″ ball receiver. Assembly required. **Maximum weight:** 1,500 lbs.

Log Hauler	F	200 lbs.	**75065**	**$869.00**

New! Norwood® LumberMate LM29 Portable Sawmill
7443

Manufacturer's Warranty 2 Year

Reliable and efficient, the LM29 can mill hardwood and softwood logs up to 29″ in diameter and cuts boards up to 22″ wide. The sawmill is equipped with a patented auto-locking sawhead that delivers effortless vertical sawhead operation. A blade lube system keeps the saw blade pitch-free in softwoods by delivering water directly to the blade at the point of entry into the cut. With the smooth sawhead feed, you can guide the sawhead through the cut using fingertip pressure, allowing you to judge the best speed for cuts through knots and denser core wood. CNC-machined upper carriage wheels are fitted with sealed double bearings for easy rolling action, and rubber under-track wheels provide added security and stability. Micro-precision log-rest adjusting bolts guarantee true 90-degree cuts. Sawdust exhausts on the far side of the mill away from you, and the comfort-height operator's station ensures ease of use. Industrial-grade powder-coating provides a tough finish that lasts, and the sawmill comes equipped standard with leveling feet for quick, accurate bed leveling. Two-year limited warranty from the manufacturer.

LumberMate LM29 with 14 Horsepower OHV Kohler Engine	F	800 lbs.	**75223**	**$5197.00**
LumberMate LM29with 16 Horsepower V-Twin OHV Briggs & Stratton Vanguard Engine	F	800 lbs.	**75224**	**$6097.00**
4′ Bed Extension	F	52 lbs.	**75222**	**$189.00**
Saw Blades, Box of 10		18 lbs.	**75205**	**$287.00**
Trailer/Support Jack Package	F	220 lbs.	**75215**	**$1986.00**

F Ships Motor Freight. See Shipping Information for details.

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Alaskan Saw Mills

4205

Transform your chainsaw into a portable saw mill!

These saw mill attachments mount easily to your chainsaw bar for fast, easy lumber production. (The chainsaw's bar must be 2-1/4″ wide.) Use the compact, lightweight Alaskan Small Log Mill with chainsaws 20″ or smaller. Three sizes of the Alaskan Mark III Saw Mills are available for 24″, 30″, and 36″ chainsaws. Requires 3/8 Pitch Ripping Chain (sold separately).

Alaskan Small Log Mill – for 20″ or smaller chainsaws	11 lbs.	**75250**	**$147.25**
Alaskan Mark III Chain Saw Mill – for 24″ chainsaws	16 lbs.	**75251**	**$202.95**
Alaskan Mark III Chain Saw Mill – for 30″ chainsaws	17 lbs.	**75252**	**$216.95**
Alaskan Mark III Chain Saw Mill – for 36″ chainsaws	18 lbs.	**75253**	**$221.75**

Ripping Chains (3/8 Pitch, 0.05 gauge)

Ripping Chain for 18″ Bar – For use with Small Log Mill	12 oz.	**75254**	**$35.95**
Ripping Chain for 20″ Bar – For use with Small Log Mill	13 oz.	**75255**	**$38.90**
Ripping Chain for 24″ Bar – For use with Mark III Mill	14 oz.	**75256**	**$43.95**
Ripping Chain for 28″ Bar – For use with Mark III Mill	1 lb.	**75257**	**$49.95**
Ripping Chain for 32″ Bar – For use with Mark III Mill	1 lb.	**75258**	**$54.50**
Ripping Chain for 36″ Bar – For use with Mark III Mill	1 lb.	**75259**	**$58.95**

Lumber/Maker®

1495

The ideal chainsaw accessory.

Turns your chainsaw into a portable saw mill and accurate cutting tool. Attaches to saw and guides along a board nailed onto a log to produce low cost lumber. Cuts 2″ x 4″, 2″ x 6″, 2″ x 8″, 2″ x 10″ and 2″ x 12″ or thicker. Attaches in seconds to any size or model chainsaw.

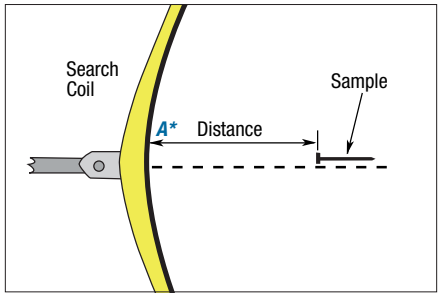
Lumber/Maker	4 lbs.	**95215**	**$99.95**

P-4000 Metal Detector for Logs

8290

Use this lightweight, sturdy, reliable, portable unit to locate metal in logs or standing timber. Metal location can be pinpointed to a narrow band along the log. The P-4000 automatically calibrates itself making it ideal for use in industrial environments with multiple operators. Features include one-piece coil head construction, adjustable handle length, battery check indicator, regulated battery pack, calibration alert, and an adjustable search head and chassis. Runs ten hours on a full charge. Regulated power prevents loss of sensitivity as the battery charge is depleted. Includes earphone, shoulder strap, battery pack, recharger, and Poly-form carrying case. **Dimensions:** 17.5″W x 36.5″L x 8.5″H. **Weight:** 7.5 lbs.

P-4000 Metal Detector for Logs	Ⓞ	24 lbs.	**43165**	**$1635.00**



Sensitivity Settings

	From Point A*
5d Nail (Finish)	9″
8d Nail	12″
10d Nail	12-1/2″
16d Nail	13-1/2″
40d Nail	15″
50d Nail	16-1/4″
60d Nail	16-3/4″
8″ Spike	18″
Fence Staple	12″

Ⓞ Oversize. Ships at Oversize rate. See Shipping Information for details.

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Portable Winch Model PCW-5000 Portable Capstan Winch

3777

Ideal for bringing down hung-up trees, skidding out-of-reach logs, pulling boats out of water, hoisting contruction materials, and pulling electrical cables through conduits just to name a few uses! Powered by a 2.5 HP Honda engine, this portable capstan winch can pull a 2,200 lb. single line or a 4,400 lb. double line at speeds up to 40 feet per minute. Use with low-stretch synthetic rope.

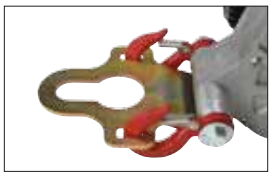
Pulling Capacity: 2,200 lb. single line; 4,400 lb. double line. **Gear Box:** Anodized aluminum alloy. **Gear Ratio:** 110:1. **Gear Train and Shafts:** Heat-treated, heavy-duty steel alloy. **Engine:** 4-Cycle Honda GHX-50 cc. **Maximum Power Output:** 2.5 Hp @ 7,000 rpm. **Brake:** Internal anti-reversal brake. **Hardware:** Stainless steel. **Dimensions:** 10˝W x 12˝H x 12˝ Deep. **Standard Drum:** 2-1/4˝ barrel diameter. **Performance:** Max. line speed, 40 ft/min; Speed at max torque, 25 ft/min; Max line pull, 2,200 lb. **Rope Size:** Minimum, 3/8˝ (10mm); Maximum, 5/8˝ (16mm).

Model PCW-5000 Portable Capstan Winch	35 lbs.	**67550**	**$1443.00**
Transport Case for PCW5000 Winch	8 lbs.	**67553**	**$239.00**

Skidding Cone for Logs

Prevents logs from being stopped by roots, stumps or residual trees while protecting them from damage. Made of high-performance polymer plastic. **Opening Diameter:** 20˝. **Depth:** 26.5˝.

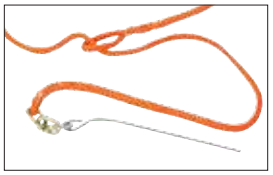
Skidding Cone for Logs	11 lbs.	**67314**	**$150.00**



Hitch Plate Winch Anchor

Simply hook the winch to the plate using the safety hooks and slide the key-hole shape over the ball hitch of your truck or ATV. **Maximum Ball Size:** 2˝ Dia.

Hitch Plate Winch Anchor	5 lbs.	**67315**	**$28.00**



HPPE Rope Choker with Rod

Made of 3/8˝ dia. HPPE rope with 15,000 lb. minimum breaking strength. Three links of 1/4˝ chain and a 12˝ metal rod at one end provide an anchor point for a grab hook and the spliced eye at the other end is used to "choke" the log.

HPPE Rope Choker with Rod	12 oz.	**67316**	**$65.00**

New England Ropes® KM-III Static Kernmantle Rope

White, 7/16˝ x 150´ - Tensile Strength: 7,500 lbs.	9 lbs.	**83360**	**$122.25**
White, 7/16˝ x 600´ - Tensile Strength: 7,500 lbs.	39 lbs.	**83361**	**$413.75**
White, 1/2˝ x 150´ - Tensile Strength: 10,000 lbs.	12 lbs.	**83362**	**$156.95**
White, 1/2˝ x 600´ - Tensile Strength: 10,000 lbs.	59 lbs.	**83363**	**$536.25**

Portable Winch Model PCW-3000 Gas-Powered Capstan Winch

2810

Small and lightweight, this portable gas-powered winch is ideal for use in the outdoors! Powered by Honda's 35 cc 4-stroke all position engine, it offers great reliability but with added transportability. Anchor it to a tree, a stump, a post using the provided 6´L polyester sling.

Gear Box and Gears: Aluminum alloy gear box with heat-treated, 3-stage spur gears. **Gear Ratio:** 200:1. **Pulling capacity:** 1,500 pounds. **Capstan Drum:** 3˝ Dia. **Drive:** Direct. **Speed:** 33´/min. **Weight:** 20 lbs.

Model PCW-3000 Portable Capstan Winch	20 lbs.	**67551**	**$1152.00**
Transport Case for PCW3000 Winch	7 lbs.	**67552**	**$179.00**

Forest Resources Association Spill Response Kit

3834

Includes 10 oil-only mats (to absorb hydrocarbons, not water), 10 universal mats (to absorb acids, caustics, water-based fluids and hydrocarbons), 3 basic snakes (to absorb hydrocarbons and coolants), 1 set of nine different-sized, tapered wooden plugs (to plug hole in tank or break in cross-over line), 1 jar of 3B putty (to seal punctures in tanks), 2 clear disposal bags (to hold used products until the time for disposal), and a 15˝ x 18˝ x 5˝ clear vinyl zipper bag which holds the kit components and provides quick view allowing for easy access. Absorbs 4.5 to 5 gallons.

Forest Resources Association Spill Response Kit	4 lbs.	**93301**	**$39.90**
		5+	**$35.50**
		10+	**$33.95**

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New! Warn® ATV/UTV Winches

3830

Known for durability, reliability, and dependability, Warn winches deliver the pulling power you can count on to finish what you start. Features include a high-strength composite gear housing, all-metal gears, and fully sealed motor and drive train. Mounting kits are also available for your specific ATV.

Warn® Vantage 2000 Winch

Ideal for use with smaller ATVs, this winch provides 2,000 lbs. of pulling power.

Rated Line Pull: 2,000 lbs. (907 kgs.). **Motor:** 12V DC, 0.9 hp (0.7 kW) permanent magnet, sealed. **Control:** Handlebar-mounted mini-rocker. **Gear Train:** Differential planetary. **Gear Ratio:** 155:1. **Clutch (Freespool):** Cam activated. **Brake:** Dynamic gear. **Drum Diameter/Length:** 1.5″/2.9″. **Weight:** 13.25 lbs. (6.0 kgs.). **Wire Rope:** 50′, 5/32″ diameter (15m, 4.0mm diam.). **Fairlead:** Roller. **Recommended Battery:** 12 Amp/hour minimum. **Battery Leads:** 8 gauge.

Warn Vantage 2000 Winch	20 lbs.	**69196**	**$203.99**

Warn® Vantage 3000 Winch

Designed for larger ATVs and side x sides, this winch provides 3,000 lbs. of pulling power for vehicle recovery and moving heavy loads.

Rated Line Pull: 3,000 lbs. (1,360 kgs.). **Motor:** 12V DC, 1.1 hp (0.8 kW) permanent magnet, sealed. **Control:** Remote and handlebar-mounted mini-rocker. **Gear Train:** 3-Stage planetary. **Gear Ratio:** 180:1. **Clutch (Freespool):** Cam activated. **Brake:** Spring. **Drum Diameter/Length:** 2.0″/2.9″. **Weight:** 16.95 lbs. (7.7 kgs.). **Wire Rope:** 50′, 3/16″ diameter (15m, 4.8mm diam.). **Fairlead:** Roller. **Recommended Battery:** 12 Amp/hour minimum. **Battery Leads:** 8 gauge.

Warn Vantage 3000 Winch	26 lbs.	**69197**	**$285.99**

Warn® Vantage 4000 Winch

Specifically designed for side x sides, the Vantage 4000 provides 4,000 lbs. of mighty pulling power.

Rated Line Pull: 4,000 lbs. (1,814 kgs.). **Motor:** 12V DC, 1.4 hp (1.0 kW) permanent magnet, sealed. **Control:** Remote and dash-mounted mini-rocker. **Gear Train:** 3-Stage planetary. **Gear Ratio:** 180:1. **Clutch (Freespool):** Cam activated. **Brake:** Spring. **Drum Diameter/Length:** 2.25″/4.7″. **Weight:** 17.5 lbs. (8.0 kgs.). **Wire Rope:** 50′, 7/32″ diameter (15m, 5.5mm diam.). **Fairlead:** Roller. **Recommended Battery:** 14 Amp/hour minimum. **Battery Leads:** 6 gauge.

Warn Vantage 4000 Winch	33 lbs.	**69198**	**$326.49**

ATV Winch Mounting Kits

Engineered to distribute loads throughout an ATV's frame minimizing the possibility of changing the alignment of your ATV, affecting its ride and handling. **Note:** Other mounts available, call for details.

Honda Rancher	8 lbs.	**69158**	**$75.75**
Honda Rincon/Rubicon	10 lbs.	**69159**	**$75.75**
Honda Foreman	5 lbs.	**69160**	**$75.75**
Yamaha Grizzly	6 lbs.	**69162**	**$75.75**
Polaris Sportsman	9 lbs.	**69163**	**$75.75**

Winching Accessory Kit

Includes one shackle, one snatch block, two tree trunk protectors, one pair of gloves, and carry bag.

Warn Light Duty Winch Accessory Kit	7 lbs.	**69148**	**$81.75**

Keeper® Trakker 2000 lb. Ball Mount Winch

7875

Manufacturer's Warranty Lifetime

Light and portable, this winch comes with a rapid mount ball hitch mount and a handheld remote switch on a 10′ lead (a 20′ lead with battery clips is also included). Other features include a free wheel clutch, a 30′ aircraft cable with hook and safety latch, and an emergency hand crank. Backed by a limited lifetime warranty from the manufacturer.

Capacity: 6000 lb. rolling lead; 5000 lb. boat fully loaded up to 18′ long; 2000 lb. pulling capacity. **Power:** 12V DC.

2000 lb. Ball Mount Winch	24 lbs.	**67548**	**$94.50**

Kolpin® Universal ATV Chainsaw Bracket

7167

Transports a chainsaw securely and safely on any ATV or UTV. Features a cam-over locking mechanism to prevent the swing door from inadvertently opening. Rubber pads cushion the powerhead and protect the bar and chain during transport. Fully adjustable, it mounts up or down and angles up to 45° in either direction. Accommodates any brand chainsaw with up to 24″ bar.

Universal ATV Chainsaw Bracket	9 lbs.	**69037**	**$70.95**

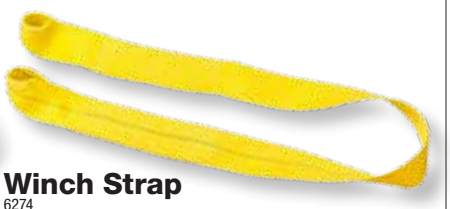
15′ Tow Strap

6273

For towing vehicles.

Durable nylon webbing absorbs jerks caused by towing. Zinc plated forged steel hooks. Measures 1-3/4″ x 15′. **Rated capacity:** 10,000 lbs.

15′ Tow Strap	2 lbs.	**94649**	**$16.95**
		4+	**$15.95**



Winch Strap

6274

Used to anchor winch cable to trees.

Prevents girdling that may harm trees. 3″ wide heavy-duty webbed strap.

6′ Long, **Rated capacity:** 30,000 lbs.; **Work load limit:** 10,000 lbs.	2 lbs.	**67642**	**$14.25**
		5+	**$13.25**
20′ Long, **Rated capacity:** 22,500 lbs.; **Work load limit:** 11,000 lbs.	3 lbs.	**94658**	**$19.75**
30′ Long, **Rated capacity:** 30,000 lbs.; **Work load limit:** 15,000 lbs.	6 lbs.	**94633**	**$34.75**

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Wyeth-Scott Company More Power Puller®

1512

Made in USA

Lifts loads up to two or three tons, depending on model, when used with a double-line hookup. Capable of single- or double-line pulls. Safety handle bends when pulling capacity is exceeded. Ribbed frame and yoke assembly for strength, durability. Malleable iron frame, yoke, ductile iron pawls and tackle block. Case hardened steel reel and forged steel frame hook. Made in USA.

2-Ton capacity with 20′ cable	24 lbs.	**67115**	**$229.50**
2-Ton capacity with 30′ cable	26 lbs.	**67116**	**$236.50**
2-Ton capacity with 40′ cable	28 lbs.	**67117**	**$258.75**
3-Ton capacity with 20′ cable	26 lbs.	**67310**	**$241.75**
3-Ton capacity with 35′ Amsteel Blue® Rope	24 lbs.	**67118**	**$344.50**

Wyeth-Scott Company Replacement Parts for 2- and 3-Ton Power Pullers

Part	Description	Weight	SN	$
P-14	Pawl	10 oz.	**67121**	**$13.00**
P-15	Tackle Block w/hook	3 lbs.	**67122**	**$40.95**
	Tackle Block w/hook. For use with 67310*	4 lbs.	**67313**	**$50.95**
P-6-20	20′ Flexible Wire Rope, 5/16″	3 lbs.	**67123**	**$40.95**
P-6-30	30′ Flexible Wire Rope, 5/16″	5 lbs.	**67124**	**$49.25**
P-6-40	40′ Flexible Wire Rope, 5/16″	6 lbs.	**67125**	**$55.95**
	2-Ton Handle Extension	20 oz.	**67119**	**$7.70**
	3-Ton Handle Extension	1 lb.	**67120**	**$8.95**

Part	Description	Weight	SN	$
P-7	2-Ton Tubular Handle, 18″ long	13 oz.	**67126**	**$5.40**
P-7-3	3-Ton Tubular Handle, 18″ long	1 lb.	**67311**	**$5.95**
P-8	Tubular Rivet for reel	6 oz.	**67142**	**$2.25**
P-9	Rivet for pawls, two required	4 oz.	**67141**	**$2.25**
P-11	Spring for pawl on yoke	1 oz.	**67112**	**$1.35**
P-13	Clamp for 5/16″ cable, two required	3 oz.	**67129**	**$1.65**
H-1	Hook for end of cable	15 oz.	**67127**	**$9.75**

Maasdam Pow'R-Pull/Winch Pullers

1510

For pulling, lifting and stretching. Operates in any position with no ropes or chains to tangle. Each unit features drop forged steel safety latch hooks included at no additional cost. Notch-at-a-time controlled letdown. The 4,000 lb. capacity model features 12′L x 3/16″ dia. cable and has a maximum lift of 6′. The 6,000 lb. capacity model features 12′L x 5/16″ dia. cable and has a maximum lift of 12′. Manufacturer's lifetime warranty. Made in the USA.

4,000 lb. capacity with 30:1 leverage factor, maximum lift 6′	8 lbs.	**69062**	**$50.75**
6,000 lb. capacity with 35:1 leverage factor, maximum lift 12′	30 lbs.	**69091**	**$187.95**

Maasdam Pow'R-Rope Puller

1514

Heavy duty rope puller.

This rope puller has heavy-duty features including 1,500 lb. capacity, 10:1 leverage, unlimited lift, and trouble-free automatic letdown. Increase capacity by using pulley blocks. Constructed of aircraft quality materials. Requires 1/2″ rope (12-strand or less), but is ideally suited for use with 3-strand rope. Manufacturer's lifetime warranty. Made in the USA. **Capacity:** 1,500 lbs. **Leverage:** 10:1.

Maasdam Pow'R-Rope Puller	6 lbs.	**69016**	**$58.95**
Maasdam Pow'R-Rope Puller, Includes 100′ of 1/2″, 3-Strand Poly-Dacron Rope	13 lbs.	**69026**	**$89.00**

Maasdam Web Strap Pull'R

4058

The flexible, non-conductive strapping material of this puller conforms to and controls the load while also protecting it. The puller has a capacity of 2,000 lbs., 10:1 leverage, and trouble-free "notch-at-a-time" letdown. The frame and handle are made of tough, cold rolled tempered steel. Other features include a precision-cast aluminum alloy ratchet wheel with one-piece construction, heavy gauge steel-reinforced ratchet guard, and drop-forged steel slip hooks with OSHA-recommended safety latches. Manufacturer's lifetime warranty. Made in the USA. **Strap length:** 25′.

Maasdam Web Strap Pull'R	7 lbs.	**69011**	**$49.75**

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Hi-Lift Jack
1511

Use as a winch, hoist, fence stretcher, post puller, spreader and more!

Lifting nose is 4-1/2″ long. 42″ Model has 32″ continuous lift; 48″ model lifts 38″; 60″ model lifts 50″, all tested to 7,000 lbs. Cast steel for strength, rigidity, and durability. Shear pin arrangement prevents dangerous overloading. Safe positive contact lifting movement. Lifting unit automatically drops away from work the moment weight is off. Handle included. Meets applicable requirements of ANSI/ASME B30.1-1992.

Maximum rated load capacity: 4,660 lbs. (2273 kg) at 48″ (121 cm). Tested to 7,000 lbs. (3175 kg). Upper 12″ rated to 2,660 lbs. (1209 kg).* Tested to 4,000 lbs. (1818 kg).* **Clamping:** 750 lbs. (340 kg). **Winching:** 5,000 lbs. (2267 kg).

*Applies only to 60″ jack.

42″ High Standard 28 lbs.	**67500**	**$86.75**
48″ High Standard 30 lbs.	**67114**	**$86.75**
60″ High Standard 33 lbs.	**67501**	**$86.75**

Loc Rac
Mounting and lock jack onto truck in horizontal or vertical position, with lock.

Loc Rac 2 lbs.	**67505**	**$32.50**

Bumperlift
For use on slotted or curved bumpers, 3000 lb. capacity.

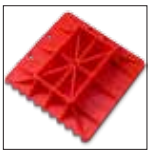
Bumperlift 2 lbs.	**67312**	**$33.75**

New! Handle-Keeper for Hi-Lift Jack
Holds the Hi-Lift® handle to the upright steel bar, keeping it in place when not in use. Also eliminates rattling during transportation.

Handle-Keeper for Hi-Lift Jack 8 oz.	**67497**	**$13.50**

New! Lift-Mate for Hi-Lift Jack
For use on vehicles with larger tires that require extensive lifting height from the bumper jack. Allows the vehicle wheel to be lifted directly from the wheel, reducing the amount of travel up the jack bar. **Lift Capacity:** 5,000 lbs.

Lift-Mate for Hi-Lift Jack 4 lbs.	**67498**	**$38.75**



New! Off-Road Base for Hi-Lift Jack
Increases support surface area by alleviating jack sinkage on soft ground.

Off-Road Base for Hi-Lift Jack 3 lbs.	**67499**	**$43.75**

Anchor Shackles with Screw Pin
1506

Shackle bodies are drop-forged carbon steel with working load limit permanently shown on each shackle. Screw pin meets design requirements of Federal Specification RR-C-271, Type IVA, Grade A, Class 2. Standard finish.

1/2″ Shackle (13/16″ Gate) Working Load Limit: 2 tons 12 oz.	**95111**	**$9.50**
5/8″ Shackle (1-1/16″ Gate) Working Load Limit: 3-1/4 tons 1 lb.	**95113**	**$16.10**

*The Working Load Limit of a chain is the maximum load in pounds that should ever be applied to a chain, even when new. Do not exceed working load limits.

Binder/Boomer Chain Assembly
6275

Grade 43

Steel chain features two clevis grab hooks. The 3/8″ x 20′ chain boasts a working load limit of 5,400 lbs. Manufactured to specifications developed by the National Association of Chain Manufacturers, Federal Specification RR-C-271, and ASTM/ANSI 413. Grade 43.

Binder/Boomer Chain Assembly 27 lbs.	**95110**	**$74.95**

Heavy-Duty Snatch Block
1513

Heavy-duty, one ton capacity snatch block is great for a variety of lifting/pulling applications. Made of galvanized steel. Features a 3-1/2″ wheel, side opening and swivel hook. Maximum 1/2″ diameter rope.

Heavy-Duty Snatch Block 8 lbs.	**67323**	**$36.75**

New! Keeper® Retractable Tow Strap
4952

Housed in a self-contained case, this 2″W x 15′L retractable tow strap unwinds easily for towing and rewinds quickly for handy storage when not in use. The high-impact case features a convenient carry handle.

Maximum Vehicle Weight: 5,000 lbs. **Webbing Capacity:** 10,000 lbs.

Keeper Retractable Tow Strap 4 lbs.	**67643**	**$23.25**

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Brush Grubber™
8570

Use with your ATV, lawn tractor or light utility tractor to easily and effectively clear brush! Uses 16 gripping teeth and strong jaws that open wide to clear small tree stumps and brush 1/2″ up to 3″ in size. Also available in a heavy-duty model made of 3/4″ steel with 3/4″ pins for handling small tree stumps and brush up to 4″ in diameter.

Brush Grubber	7 lbs.	**75170**	**$56.95**
Heavy-Duty Brush Grubber	14 lbs.	**75171**	**$79.00**

Brush Grubber Xtreme™
8570

5″ Capacity

Use the Xtreme with compact tractors (45 HP or less), ATV's, UTV's, etc. Heavy-duty 1″ steel construction with strong jaws that open wide to handle bigger brush. Other features include 18 no slip grip teeth per pad, large rugged handles, and grip pads that rotate 360°. Handles small tree stumps and brush up to 5″ dia.

Brush Grubber Xtreme	23 lbs.	**75173**	**$122.95**

Brush Grubber Xtreme Plus™
8570

6″ Capacity

Use the Xtreme Plus with pickups, SUV's, tractors, and skid loaders. Heavy-duty 1.5″ steel construction with strong jaws that open wide to handle bigger tree stumps. Other features include five large no slip grip teeth per pad, large rugged handles, and 3.5″ grip pads that rotate 360°. Removes small tree stumps up to 6″ dia.

Brush Grubber Xtreme Plus	36 lbs.	**75174**	**$185.00**
		2+	**$179.00**

New! Brush Grubber Boss S.D.
8570

8″ Capacity

Great tool for removing invasive brush, tree stumps, and more! Strong jaws open wide to pull larger tree stumps up to 8″. Use with pick-ups, SUVs, tractors, and skid loaders. Large handles open jaws easily and the 3.9″ grip pads rotate 360° with 5 large no-slip grip teeth. Constructed of heavy duty 1.5″ steel.

Brush Grubber Boss S.D.	50 lbs.	**75177**	**$239.95**

Fiberglass Ironclad Handle Brush Grubber
7664

Handles small tree stumps and brush up to 2″ diameter! Plus the fiberglass handle and reinforced leverage point provide additional leverage for tougher brush. Other features include eight no slip grip teeth per pad, spring operated jaws with lever release, grip pads that rotate 360°, and a lift stand.

Fiberglass Ironclad Handle Brush Grubber	22 lbs.	**75175**	**$119.95**

Grubber Tugger Chains
8570

Each rugged chain features an anti-backlash design for safety, a spring-loaded hook, and an extra large ring that fits over a 2″ receiver hitch ball. The bright color of the chain makes it easy to spot.

Grubber Tugger Chain, 5/16″ x 5-1/2′L – Intended for use with the Original Brush Grubber or the Heavy-Duty Brush Grubber	6 lbs.	**75160**	**$39.95**
Grubber Tugger Chain Xtreme, 3/8″ x 6′L – Intended for use with the Heavy-Duty Brush Grubber or the Brush Grubber Xtreme	9 lbs.	**75161**	**$52.00**

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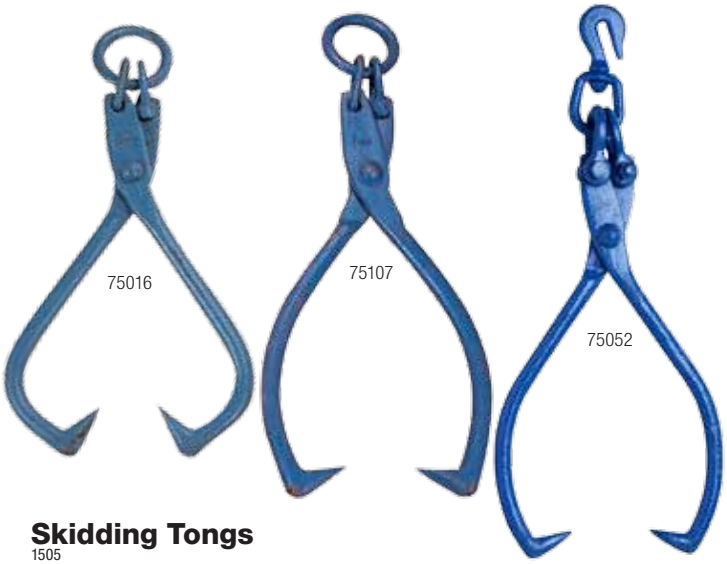
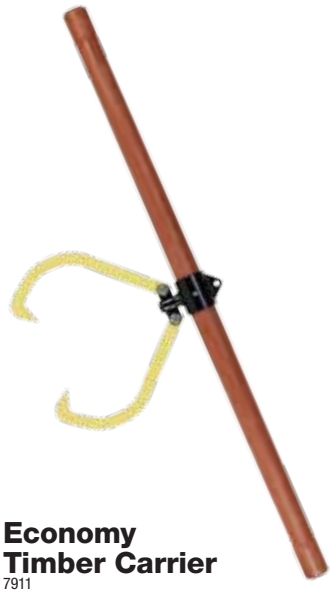


Skidding Tongs
1505

Made of special analysis tool steel. Shaped to increase tip penetration and provide best grip. Swivel grab hook or ring. 3/4″ Tong opens 16″; 1″ Tong opens 20″, 25″; 1-1/2″ Tong opens 36″.

3/4″ open 16″; Rounded w/ring	6 lbs.	**75016**	**$55.50**
1″ opens 20″; Rounded w/ring	15 lbs.	**75106**	**$73.50**
1″ opens 25″; Rounded shape w/ring	18 lbs.	**75053**	**$79.25**
1″ opens 25″; Rounded w/swivel grab hook	15 lbs.	**75052**	**$100.50**
1-1/2″ opens 36″; Rounded shape w/ring	50 lbs.	**75107**	**$337.95**
New! 1-1/2″ opens 36″; Rounded shape w/swivel grab hook	50 lbs.	**75109**	**$369.95**

Note: Not for overhead lifting.



Economy Timber Carrier
7911

Two-person carrier handles logs up to 16″ in diameter. A swivel feature allows the log to move freely. The 2″ diameter solid wood handle has an overall length of 46″.

Economy Timber Carrier			
10 lbs.		**75012**	**$64.95**

Peavey Pulp Hooks
1485

For handling pulpwood sticks or small boltwood. Welded-on D-ring handle with wood hand grip.

Model 606, 4-1/2″ hook opening	1 lb.	**75095**	**$36.95**

Super "Logger" Skidding Tongs with Ring
1503

Drop-forged from alloy steel for uniformity and maximum strength. Tips penetrate securely and simplify hooking/unhooking, while ensuring proper holding strength. Design places the most metal at greatest stress points. 1-1/4″ Size. Opens to 16″. Heat-treated ring.

Super "Logger" Skidding Tongs			
27 lbs.		**75103**	**$239.50**

Caution - Skidding Tongs are designed for moving logs, not for overhead lifting.

Lifting Tongs with Ring
1504

Certified for overhead lifting. Each alloy heat-treated steel tong tested and tagged with working load limits at 75°, 135° and 180° openings. Reshaped to increase tip penetration.

1″ Lifting Tongs with Ring 1″ Tong opens to 4-1/2″ to 25″, 1,500 to 2,500 lbs. working load limit*.			
18 lbs.		**75055**	**$167.75**
New! 3/4″ Lifting Tongs with Ring 3/4″ Tong opens to 3-1/2″ to 16″, 750 to 1,500 lbs. working load limit*.			
8 lbs.		**75054**	**$159.95**

Timber Tuff™ Swivel Grab Skidding Tongs
7672

High-carbon steel skidding tongs feature end points that are designed to stay sharp and dig into the log for a secure hold. Powder-coated finish for durability. 3/8″ Tongs open to 20″. Caution - Skidding Tongs are designed for moving logs, not for overhead lifting.

Timber Tuff Swivel Grab Skidding Tongs			
9 lbs.		**75108**	**$39.95**

*The Working Load Limit of a chain is the maximum load in pounds that should ever be applied to a chain, even when new. Do not exceed working load limits.\

Clump Grubber HD™ Clump Removal Chain System
7362

For use with an ATV, UTV, or compact tractor, this triple-chain system grips unwanted shrubs, vines, and clumps of small trees. The Clump Grubber saves time by removing clumps of trees rather than individual trees. The loop system acts as a choker for a secure grip, and 6′ of 7/25″ no-slip grip links provide the power to remove clumps of brush and small trees up to 1.75′ in diameter. The chain's high-visibility color makes the system easy to locate.

Clump Grubber HD			
Clump Removal Chain System			
17 lbs.		**75190**	**$89.95**

Timber Tuff™ 12′ Log Grabber Chain
2898

Ideal for dragging logs, this high-visibility chain has "V" grippers on the first 4′ that helps prevent slipping or rolling of the chain. Other features include 5/16″ links, a ring on one end that fits over a 2″ ball for towing, and a slip hook with a safety clip on the other end which creates a choker chain for tight gripping.

12′ Log Grabber Chain			
12 lbs.		**75193**	**$59.95**

[search engine powered by magazooms.com]

LogRite™ Aluminum Peavey Hooks
8381

The aluminum handle of these logging peaveys make them stronger and easier to use than traditional wood handled logging peaveys. The bright blue handle is easy to see around a sawmill or woodlot. The heat treated, zinc plated hook is built to last, and the textured rubber grip is easy to hold.

42″ Peavey Hook	9 lbs.	**75089**	**$99.00**
60″ Peavey Hook	10 lbs.	**75092**	**$115.00**

6″ Universal Log Stand

Attaches to any LogRite Cant Hook or Peavey, adding log jack functionality.

6″ Universal Log Stand	4 lbs.	**75077**	**$36.50**

LogRite™ Aluminum Cant Hooks
8378

Use to flip cants on the sawmill, start logs that are ready to roll and as a pivot handle when hooked in the end of a log. Aluminum handle is stronger and easier to use than traditional wood handled cant hooks. Heat-treated, zinc-plated hook is built to last. The textured rubber grip is easy to hold.

42″ Cant Hook	8 lbs.	**75076**	**$99.00**

6″ Universal Log Stand

Attaches to any LogRite Cant Hook or Peavey, adding log jack functionality.

6″ Universal Log Stand	4 lbs.	**75077**	**$36.50**

LogRite™ 54″ Aluminum Log and Timber Carrier
8380

Allows 2 people to skid large logs around a woodlot. This aluminum handled log carrier is stronger and easier to use than traditional wood handled log carriers and features a bright blue handle that is easy to see around a sawmill or woodlot. The heat treated, zinc plated hooks are built to last. The textured rubber grip is easy to hold.

LogRite 54″ Aluminum Log and Timber Carrier	12 lbs.	**75082**	**$125.00**

Council "Red Head" Hookaroon
1482

Forged steel head, 36″ wood handle. 1-1/2 lb. Head attached to handle with rivet.

Hookaroon 3 lbs.		**75000**	**$39.95**
	6+		**$37.75**
36″ Replacement Handle 2 lbs.		**33177**	**$14.95**

Hookaroon
1483

36″ Wood handle. 1-1/2 lb. Forged steel head attached to handle with roll pin.

1-1/2 lb. Standard Bend Head 3 lbs.		**75132**	**$30.50**
1-1/2 lb. Curved Bend Head 4 lbs.		**75134**	**$32.50**
36″ Replacement Handle 2 lbs.		**75002**	**$15.25**

"Star" Hookaroon
1484

Forged steel head's special alloy strengthens point, reduces breakage. Roll pin attachment permits easy handle replacement. 1-1/2 lb. Head, 36″ wood handle.

"Star" Hookaroon 3 lbs.		**75021**	**$30.25**
36″ Replacement Handle 2 lbs.		**75002**	**$15.25**

Pickaroon
1486

For small log and wood bolt handling. Steel push-point plus hook and point on 36″ handle.

Pickaroon 3 lbs.		**75125**	**$31.95**

[search engine powered by magazooms.com]

Malleable Clasp Cant Hooks
1489

Used to roll and position logs. Duckbill hook and extension toe ring are special analysis tool steel. Wood handles.

For Logs 6″ - 16″

2-1/2′ Handle 5 lbs.	**75099**	**$54.95**
3′ Handle 6 lbs.	**75100**	**$57.95**
3-1/2′ Handle 7 lbs.	**75101**	**$59.25**

For Logs 8″ - 24″

4′ Handle 9 lbs.	**75019**	**$69.25**
4-1/2′ Handle 9 lbs.	**75042**	**$71.25**
5′ Handle 11 lbs. X	**75102**	**$126.25**

Replacement Handle

3′L x 2-1/4″ dia. Replacement Handle 2 lbs.	**75182**	**$24.50**
3-1/2′L x 2-1/4″ dia. Replacement Handle 3 lbs.	**75183**	**$28.95**
4′L x 2-1/2″ dia. Replacement Handle 4 lbs.	**75184**	**$46.50**
4-1/2′L x 2-1/2″ dia. Replacement Handle 4 lbs.	**75185**	**$48.95**
5′L x 2-1/2″ dia. Replacement Handle 4 lbs.	**75186**	**$53.50**

Solid Socket Peavies
1488

Used to roll and position logs. Duckbill hooks and driven picks are special analysis tool steel. Seamless steel tubing sockets. Wood handles.

For Logs 6″ - 16″

4′ Handle 7 lbs.	**75048**	**$71.25**

For Logs 8″ - 24″

4-1/2′ Handle 10 lbs.	**75079**	**$80.25**
5′ Handle 10 lbs.	**75050**	**$84.95**

Replacement Handle

4′ Replacement Handle 3 lbs.	**75178**	**$36.75**
4-1/2′ Replacement Handle 4 lbs.	**75179**	**$47.25**
5′ Replacement Handle 4 lbs.	**75180**	**$50.25**

Dixie Industries

Timber Carrier
1490

7/8″ x 7/16″ Duckbill hooks accept timbers 3″ to 16″. Heavy steel swivel, 4′ wood handle. Clasp is split on top and bolted to permit easy handle replacement.

Timber Carrier 12 lbs.	**75014**	**$152.25**
4′ Replacement Handle for Timber Carrier 3 lbs.	**75187**	**$50.25**

Pike Poles

Pike Poles with Aluminum Handles
1492

Special analysis tool steel straight pike and hook. 1-1/2″ diameter aluminum poles with wood fittings in each end. Light, strong, will float. Not for use near power lines.

Pike Poles with Wood Handles
1491

Straight pike and hook are special analysis tool steel. Pikes have lag screw shank. 1-1/2″ Diameter wood handles.

Pike Poles	Handle Length 10′	12′	16′	20′		Weight	Each	5+
Aluminum Handles		**75115**			F	6 lbs.	**$56.50**	**$52.25**
			75117		F	7 lbs.	**$70.50**	**$64.50**
				75118	F	8 lbs.	**$93.50**	**$87.25**
Wood Handles	**75110**				F	6 lbs.	**$71.50**	**$66.75**
		75111			F	7 lbs.	**$84.25**	**$77.25**
			75113		F	9 lbs.	**$136.25**	**$124.25**

Timberjack
1494

Raises and holds logs, up to 12″ in diameter, for easy cutting with hand saw or chain saw. Helps prevent kickback, saw or saw chain hitting ground and pinching. Remove stand to use as Cant Hook. **Handle length:** 40″.

Timberjack	9 lbs.	**75056**	**$66.50**
Replacement Handle	3 lbs.	**75025**	**$33.75**

F Ships Motor Freight. See Shipping Information for details.
X Items 60″ or more require an additional handling charge.

Tailgate Warning Flag
6239

Vinyl-coated nylon flag is fluorescent red/orange with wire spreader and pigtail for attachment. 18″ x 18″.

Tailgate Warning Flag 4 oz.	**58026**	**$3.75**
	50+	**$2.95**

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Bahco® Log Tongs
1496

Grab wood easily with just one hand.

Pointed tips dig into bark for a sure grip. Constructed of medium-gauge Swedish steel with high-impact nylon coated handle. The optional holster's (sold separately) spring-loaded pouch keeps tongs from slipping out. Leather pouch riveted to thick black plastic backing threads onto most belts.

Bahco Log Tongs with 8″ Dia. Jaws	1 lb.	**75058**	**$34.75**
Bahco Log Tongs with 11″ Dia. Jaws	2 lbs.	**75061**	**$67.50**
Leather Holster for Bahco 8″ Log Tongs	7 oz.	**75059**	**$21.75**

Tree Felling Lever
1487

This tree felling lever's unique 31″ long, bent handle provides extra leverage when felling, breaking up stumps, freeing pinched saws and rolling logs. Features forged high carbon steel spade, heat treated spring steel cant hook and heavy gauge rectangular steel handle.

Tree Felling Lever	5 lbs.	**75087**	**$50.50**

Chain Saw Chaps
pages 118 and 119

Made in USA

New! Woodchuck Dual
4907

A peavey/cant hook combo! The retractable peavey point stakes into the ground for freeing frozen logs and retracts when not in use. Great for rolling logs and positioning log ends. A removable log jack attachment allows you to raise and hold logs for easy cutting. Aluminum handle. 52″ Overall length. Backed with a lifetime warranty from the manufacturer. Made in the USA.

Woodchuck Dual	12 lbs.	**75063**	**$119.95**

Demonstration video can be viewed at www.forestry-suppliers.com

Made in USA

New! Woodchuck Skidderoon
4897

Combines the function of a Pickeroon/Hookeroon with the ability to skid limbs, branches, brush or small trunks, either by hand or by motor means. Features include 6061 aluminum construction, high strength ultra hard stainless steel pick, and a removable and replaceable nylon-coated cable with 2,000 lb. breaking strength. **Weight:** 2.25 lbs. **Length:** 32″L. Limited lifetime warranty (except for the cable) from the manufacturer. Made in the USA.

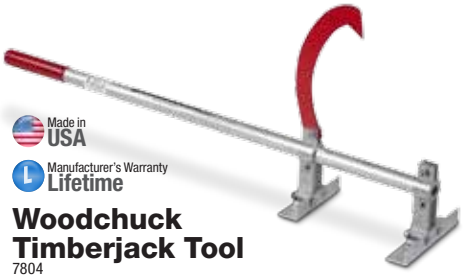
Woodchuck Skidderoon	3 lbs.	**75062**	**$64.95**

Woodchuck Quad Log Lifting Tool
7367

Made in USA

This versatile tool can be used as a log holder, log lifter, log roller, post remover, or log carrier! Simply change the tool's configuration to meet your needs. When using as a log holder during cutting, place the feet of the tool against a straight tree and wrap the tool's chain around the tree. An adjustable arm can be raised or lowered depending on the diameter of the log. The tool securely holds the log in order to speed cutting and prevent both chain dulling and bar binding. To use as a log lifter, log roller, or post remover, attach the handle using the appropriate configuration. The log lifter and log roller functions allow you to easily move and maneuver logs. For use as a post remover, make a slip loop around the base of the post using the tool's chain. Pull back on the handle to lift the post a few inches at a time. Made in the USA.

Woodchuck Quad Log Lifting Tool	15 lbs.	**75051**	**$128.95**



Made in USA

Manufacturer's Warranty Lifetime

Woodchuck Timberjack Tool
7804

The dual feet of the Timberjack keep the handle from digging into the ground allowing logs up to 20″ in diameter to be raised and held for easy cutting. The handle is backed by a lifetime warranty from the manufacturer. Made in the USA.

Woodchuck Timberjack Tool	11 lbs.	**75060**	**$98.95**

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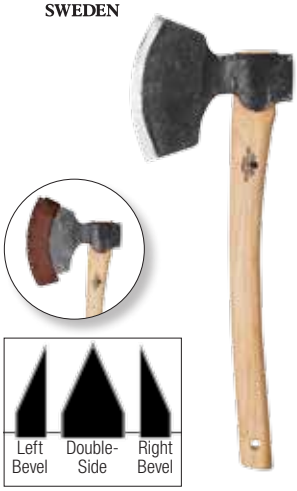
GRÄNSFORS BRUK
SWEDEN



New! Gränsfors Bruk 1900 Broad Axe
4966

Model 480 Series

The traditional design of this axe is suitable for squaring logs and planks. Axe blade is centered in relation to the head and eye. Straight handle. Available in your choice of three grind options. Tanned leather sheath is included. **Length with handle:** 19.5″L. **Weight:** 3.5 lbs.

1900 Broad Axe with Straight Handle - Double Bevel Grind Ground on both sides of the edge. 4 lbs.		**33076**	**$300.00**
1900 Broad Axe with Straight Handle - Left Bevel Grind Ground on left side. 4 lbs.		**33078**	**$300.00**
1900 Broad Axe with Straight Handle - Right Bevel Grind Ground on right side. 4 lbs.		**33077**	**$300.00**

New! Gränsfors Bruk Straight Adze
4968

Model 476 Series

An old Scandinavian axe design with a transverse edge for squaring off logs and planks to create a smooth surface, to shape beams and purlins, and to form ribs for boats. Small handle is ideal for working close to the log.

Gransfors Bruk Small Straight Adze, Length with Handle: 9.5″L. Cutting Edge: 2.17″L. Weight: 1.8 lbs. 2 lbs.		**33081**	**$300.00**
Gransfors Bruk Large Straight Adze, Length with Handle: 25.5″L. Cutting Edge: 2.95″L. Weight: 2.9 lbs. 3 lbs.		**33082**	**$350.00**

New! Gränsfors Bruk Gutter Adze
4967

Model 478 Series

Cutting edge is rounded up at ends for hollowing out timber. Small handle is ideal for working close to the log. Large handle is ideal for standing over the log and chopping between your legs.

Gransfors Bruk Small Gutter Adze, Length with Handle: 9.5″L. Cutting Edge: 2.36″L. Weight: 1.8 lbs. 2 lbs.		**33083**	**$310.00**
Gransfors Bruk Large Gutter Adze, Length with Handle: 25″L. Cutting Edge: 2.76″L. Weight: 3.3 lbs. 3 lbs.		**33084**	**$362.00**

New! Gränsfors Bruk Swedish Drawknife
4969

Model 486

Meant to be used with both hands, this Swedish Draw Knife is forged into an arch for debarking and shaping logs. The protruding handles allow you to get plenty of power behind each stroke. The blade angle is adjusted by hand for the desired planing effect. Angle more sharply for more of a cutting action. Tanned leather sheath is included. **Length with Handles:** 25.5″L. **Cutting Edge:** 12.5″L. **Weight:** 1.8 lbs.

Gransfors Bruk Model 486 Swedish Drawknife 2 lbs.		**33079**	**$225.00**

Curtis "Fast Cutter" One-Man Crosscut Saw
1469

Perforated lance tooth, straight back, four cutting teeth to each raker, 3-1/2′ long. Width at butt 6-5/8″, width at point 2-5/8″. Saw is sharpened, set, and ready to use. Use reconditioning kit sold separately or have professional set blade to prevent binding. **Total length:** 47-1/2″.

One-Man Saw	5 lbs.	**75166**	**$216.75**
Optional Supplementary Hardwood Handle with steel trimming – allows two people to work the saw	5 oz.	**75167**	**$27.50**

Reconditioning Kit For Crosscut Saws
1468

Hammer type setting. Includes 8 oz. setting hammer, setting stake, spider set gauge, combination jointer/raker gauge, crosscut sharpener/jointing file.

Reconditioning Kit For Crosscut Saws	4 lbs.	**75169**	**$147.50**

Curtis "Fast Cutter" Two-Man Crosscut Saw
1470

Half-wide tuttle tooth-curve ground. Two cutting teeth to each raker. Back of saw is thick at ends and thin at the center to give stiffness to saw, prevent binding, permit minimum of set and assure easy cutting. Hardwood handles sold separately.

5-1/2′ Long. Center width 5-5/16″, end width 3-3/8″. Saw is sharpened, set and ready to use.

Two-Man Saw	X	6 lbs.	**75168**	**$236.95**
Handles for 75168, pair		1 lb.	**75165**	**$41.25**

X Oversize. Ships UPS 70 lb. rate. See Shipping Information for details.

Chaulk, Crayon and Ink Markers page 94

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GRÄNSFORS BRUK
SWEDEN

20 Manufacturer's Warranty 20 Year

Gränsfors Bruk Outdoor Axe with Collar Guard

4604

Model 425

This versatile Outdoor Axe is ideal for a number of different uses including limbing trees, chopping and splitting firewood, and even for woodcarving. The 1 lb. head has a 2-1/2″ face and features a throat collar with a 14.75″ Hickory handle. Full grain leather sheath included. Backed by a 20-year manufacturer's warranty.

Outdoor Axe with Collar Guard 1 lb.		**33006**	**$174.00**

20 Manufacturer's Warranty 20 Year

Gränsfors Bruk Wildlife Hatchet

7700

Model 415

A small, lightweight axe which can be easily carried. Ideal for field use in cutting branches on the trail or chopping and splitting sticks for a camp fire. The hatchet has a 3″ face and a 13-1/2″L hickory handle with a 1 lb. head. Comes with a grain-leather sheath. Backed by a 20-year manufacturer's warranty.

Wildlife Hatchet 2 lbs.		**33004**	**$112.00**

20 Manufacturer's Warranty 20 Year

Gränsfors Bruk American Felling Axe

4603

Model 434 Series

These professional axes are ideal for felling trees and sectioning logs. Handle is made of American Hickory, and the head is hand-forged out of a single piece of steel and carefully tempered and sharpened. The head weighs 3.3 lbs. and the face of the bit is 4-1/2″. Grain-leather sheath is included. Backed by a 20-year manufacturer's warranty.

American Felling Axe, 31″L Curved Handle	5 lbs.	**33007**	**$190.00**
American Felling Axe, 35″L Curved Handle	5 lbs.	**33008**	**$190.00**
American Felling Axe, 31″L Straight Handle	5 lbs.	**33005**	**$190.00**

20 Manufacturer's Warranty 20 Year

Gränsfors Bruk Splitting Axe with Collar Guard

7697

Model 440 Series

Each Gränsfors Bruk's Axe is forged by a professional smith who takes such pride in his work that he marks the head with his initials beside the company's crown label. Designed for splitting chunks of wood, "rounds", this splitting axe features a thick part on the concave wedge shaped axe head which powers apart the grain of the wood. The poll is not designed for pounding on a wedge. Also features circular grooves at the grip, a steel collar and a grain-leather sheath. Backed by a 20-year manufacturer's warranty.

Small Splitting Axe with Collar Guard, 2 lb. Head, 20″L Hickory Handle	4 lbs.	**33028**	**$145.00**
Large Splitting Axe with Collar Guard, 3.5 lb. Head, 27″L Hickory Handle	6 lbs.	**33001**	**$158.00**
Long & Large Splitting Axe with Collar Guard, 3.5 lb. Head, 31″L Hickory Handle	5 lbs.	**33024**	**$162.00**

20 Manufacturer's Warranty 20 Year

Gränsfors Bruk Small Forest Axe

7699

Model 420

Same size as the Hunter's Axe but features a more traditional pattern and poll. The blade is thin. The handle is long enough to allow powerful chopping, but not too long so it will fit into a rucksack, the back of a car or a boat. Practical for splitting small sticks for the fire or cutting small-diameter limbwood for starter fuel in a fireplace. The axe has a 3-1/4″ face and a 19″L hickory handle. The head weighs 1-1/2 lbs. Comes with a grain-leather sheath. Backed by a 20-year manufacturer's warranty.

Small Forest Axe, 1.5 lb. Head 2 lbs.		**33000**	**$120.00**

20 Manufacturer's Warranty 20 Year

Gränsfors Bruk Scandinavian Forest Axe

7698

Model 430

Forged with pride by a professional smith, this axe is a more professional axe for those who want to limb a felled tree in the traditional way. Forged to a thin, curved bit and sharpened to make it suitable for cutting branches in fresh, resinous wood, spruce or pine. The long handle gives extra strength and power to the cut. The axe has a 3-1/2″ face and a 25″L hickory handle. The head weighs 2 lbs. Comes with a grain-leather sheath. Backed by a 20-year manufacturer's warranty.

Scandinavian Forest Axe 3 lbs.		**33002**	**$130.00**

20 Manufacturer's Warranty 20 Year

Gränsfors Bruk Hunters Axe

7696

Model 418

The poll of this axe is forged thinner than normal and gently rounded and burnished to a Flay Poll to be used when skinning an animal. The axe is also good for chopping wood, as well as meat. The grip of the handle has circular grooves which give a steady grip even if your hands are wet or sticky. Features a 3-1/4″ face, a 19″L hickory handle and the head weighs 1-1/2 lbs. Grain-leather sheath is included. Backed by a 20-year manufacturer's warranty.

Hunters Axe 2 lbs.		**33003**	**$171.00**

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20 Manufacturer's Warranty 20 Year

Gränsfors Bruk Splitting Maul with Collar Guard

4651

Model 450

Ideal for splitting apart large chunks of wood, "rounds." The maul's head is heavier than the head of splitting axes and the poll is designed for pounding on a splitting wedge. The head weighs 5-1/2 lbs. and has a 2-1/2″ face. the 31″L hickory handle has circular grooves at the grip and a steel collar near the head. Supplied with a grain-leather sheath. Backed by a 20-year manufacturer's warranty.

Splitting Maul with Collar Guard 7 lbs.	**33030**	**$176.00**

20 Manufacturer's Warranty 20 Year

20 Manufacturer's Warranty 20 Year

Gränsfors Bruk Double Bit Axes

4655

Popular for its balanced feel and versatility!

Gränsfors Bruk Double Bit Throwing Axe

Model 490

Ideal for timber sports, this throwing axe features a 3 lb. head and the face of the bits is approximately 6″. Straight, hickory handle measures 29″ long. Two grain leather sheaths are included. Backed by a 20-year manufacturer's warranty.

Double Bit Throwing Axe 5 lbs.	**33021**	**$229.00**

Gränsfors Bruk Double Bit Working Axe

Model 490-2

Ideal as a working axe! The head weighs 3 lbs. and the face of the bits is approximately 6″. The straight, hickory handle is 35″L. Comes with 2 grain-leather sheaths. Backed by a 20-year manufacturer's warranty.

Double Bit Working Axe 6 lbs.	**33022**	**$229.00**

20 Manufacturer's Warranty 20 Year

Gränsfors Bruk Hand Hatchet

4652

Model 413

Easy to carry in a daypack, this small hand hatchet has a 9-1/2″ long hickory handle. Use it for cutting kindling, sharpening stakes, building shelters, etc.The hatchet face measures 3″ and the overall weight including the sheath is 1-1/2 lbs. Grain-leather sheath is included. Backed by a 20-year manufacturer's warranty.

Hand Hatchet 2 lbs.	**33023**	**$110.00**

20 Manufacturer's Warranty 20 Year

Gränsfors Bruk Mini Hatchet

4653

Model 410

Handy, durable and more versatile than a pocket knife. Face measures 2-1/2″ and it has an overall weight of 12 oz. Hickory handle is 10-1/2″L. Full-grain leather sheath included. Backed by a 20-year manufacturer's warranty.

Mini Hatchet 1 lb.	**33027**	**$145.00**

20 Manufacturer's Warranty 20 Year

Gränsfors Bruk Carpenter's Axe

4657

Model 465

Suited for work in dry wood, this axe has a straight edge and thin blade with low angle of the bevel face. The forged inward curve from the heel to the lip of the head permits your hand to grip almost straight above the center of the long, straight cutting edge providing rigidity, stability, and control when cutting. Axe poll is ground and can be used as a hammer. Head weighs 1-1/2 lbs. and has a 3-1/2″ face. 18″L Hickory handle. Grain-leather sheath is included. Backed by a 20-year manufacturer's warranty.

Carpenter's Axe 2 lbs.	**33009**	**$127.00**

20 Manufacturer's Warranty 20 Year

Gränsfors Bruk Splitting Hatchet with Collar Guard

7697

Model 439

This hatchet is easily managed with one hand. The head is forged and ground concave, to a very sharp, thin blade at the bit. This helps the axe to go fast into the wood pushing the wood apart as the thicker part hits. The axe has a 2-1/2″ face and a 19″L hickory handle with circular grooves at the grip and steel collar near the head. The head weighs 2.5 lbs. Supplied with a full-grain leather sheath. Backed by a 20-year manufacturer's warranty.

Splitting Hatchet with Collar Guard 3 lbs.	**33029**	**$141.00**

20 Manufacturer's Warranty 20 Year

Gränsfors Bruk Swedish Carving Axes

4656

Model 475 Series

Use for artistic wood sculpture, hewing bowls, wooden objects and architectural work. The curved shape of the cutting edge combined with the position of the edge in proportion to the handle, the thicker bit and the big angle of the wide beveled face make this axe a good carving tool allowing you to cut with curved movements. The rugged handle provides a good grip. The face measures 4-1/3″ and the hickory handle is 14″L. The head weighs 2 lbs. Comes with a full-grain leather sheath. Backed by a 20-year manufacturer's warranty.

Swedish Carving Axe, Double Bevel 2 lbs.	**33031**	**$179.00**
Swedish Carving Axe, Left Bevel 2 lbs.	**33032**	**$179.00**
Swedish Carving Axe, Right Bevel 2 lbs.	**33034**	**$179.00**

Gränsfors Bruk Twisted Splitting Wedge

4654

20 Manufacturer's Warranty 20 Year

Model 460

This forged steel splitting wedge is twisted for maximum splitting efficiency. The poll has ground edges. The wedge is 10″ long, has a 1-3/4″ face, and weighs 4 lbs. Leather cover is included. Backed by a 20-year manufacturer's warranty.

Twisted Splitting Wedge 4 lbs.	**33033**	**$82.00**

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GERBER

Gerber® Gator® Combo Axe™ II

7768

Two handy tools in one! The Combo Axe II features a forged steel axe head designed to hold its edge and a razor-sharp saw that stores inside the axe handle. An internal magnet holds the saw securely within the axe handle until the saw is removed for use. Gator® texturing on the axe handle maximizes your grip, and the glass-filled nylon construction is rugged yet lightweight. Ballistic nylon sheath included. Manufacturer's limited lifetime warranty.

Axe – Overall Length: 15.60″; **Blade Length:** 2.70″. **Saw – Overall Length:** 10.24″; **Blade Length:** 6.10″.

Gator Combo Axe II 2 lbs.	**33666**	**$39.95**

Tree Sounding/ Sportman's Axe

1747

Excellent, general purpose axe. 8 oz. Head axe is perfect for "sounding" trees. Compact size – 10″ long, 2-1/4″ blade. Vinyl sheath included.

Tree Sounding/Sportman's Axe 13 oz.	**33103**	**$22.95**
Replacement Handle 4 oz.	**33104**	**$6.25**

SNOW & NEALLEY

Snow & Nealley Double Bit Axe

4762

A classic, this double bit axe is hand ground and heat tempered to produce a cutting edge that lasts! Manufactured with a 3.5 lb. head and a 36″ Hickory handle. Leather blade guard included for safety.

Double Bit Axe 5 lbs.	**33080**	**$74.95**

SNOW & NEALLEY

Snow & Nealley 2-1/4 lb. Single Bit Axe

4761

This versatile utility axe is ground on stone wheels for a factory edge like no other. and tempered in fire to produce a hardness to the tool. Ideal for fence posts, garden stakes, limbing felled trees, and other practical jobs. Leather blade guard is included.

2-1/4 lb. Single Bit Axe 3 lbs.	**33089**	**$55.75**

SNOW & NEALLEY

Snow & Nealley Single Bit Axe

Made in USA

Manufacturer's Warranty Lifetime

2521

Perfect for big jobs, this axe is forged from fine grain steel and is hand-worked for superior quality. The axe features a 3-1/2 lb. head, 4-1/2″ blade, and a 30″ handle for excellent leverage. Leather blade guard included. Manufacturer's lifetime warranty.

Single Bit Axe 5 lbs.	**33087**	**$60.25**

SNOW & NEALLEY

Snow & Nealley Hudson Bay Camping Axe

Made in USA

Manufacturer's Warranty Lifetime

2519

A favorite of outdoor professionals! This superior quality, versatile axe features a 1-3/4 lb. head, 3-1/2″ blade, and a 24″ hickory handle. Leather blade guard included. Manufacturer's lifetime warranty.

Hudson Bay Camping Axe 2 lbs.	**33085**	**$57.25**

SNOW & NEALLEY

Snow & Nealley Mini Maul

Manufacturer's Warranty Lifetime

2522

An ideal splitting tool for smaller jobs, this mini maul can be used with one hand. Features a 3 lb. head and an 18″ hickory handle. Leather blade guard included. Manufacturer's lifetime warranty.

Mini Maul 4 lbs.	**33088**	**$52.25**

SNOW & NEALLEY

Snow & Nealley Penobscot Bay Kindling Axe

Made in USA

Manufacturer's Warranty Lifetime

2520

Compact enough to fit in a backpack, this premium quality axe is ideal for splitting kindling at camp, on the trail, or anywhere in-between! The fire-hardened axe features a 1-3/4 lb. Hudson Bay head on an 18″ hickory handle. Leather blade guard included. Manufacturer's lifetime warranty.

Penobscot Bay Kindling Axe 5 lbs.	**33086**	**$55.25**

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Estwing Made in USA

Estwing® Black Eagle Tomahawk Axe

4599

Designed for sportsmen and military professionals, this Tomahawk Axe is ideal for breaching, excavation, and extrication, as well as trenching, cutting, and digging. Lightweight and perfectly balanced for optimal control. Made in the U.S.A.

Black Eagle Tomahawk Axe, Matte Black-on-Black	2 lbs.	**33042**	**$44.95**
Black Eagle Tomahawk Axe, Estwing Blue UV finish	2 lbs.	**33044**	**$44.95**
Black Eagle Tomahawk Axe, Black finish with leather grip	2 lbs.	**33047**	**$51.25**

Estwing Made in USA

Estwing® Black Eagle Double Bit Axe

4599

Designed for sportsmen and military professionals, this lightweight double bit axe is balanced for optimal control and can shape, split and cut wood. Beveled blades reduce binding and the double blade means less sharpening. Hot forged and heat treated. Made in the U.S.A.

Black Eagle Double Bit Axe, Matte Black-on-Black	3 lbs.	**33041**	**$44.95**
Black Eagle Double Bit Axe, Estwing Blue UV finish	2 lbs.	**33043**	**$44.95**
Black Eagle Double Bit Axe, Black finish with leather grip	2 lbs.	**33046**	**$51.25**

COUNCIL TOOL Made in USA

New! Council Apocalaxe

4965

This versatile tool can be used like an axe or a hatchet and also features both a hammer head for general striking and a gut hook for skinning. The forged high carbon steel blade is super sharp, and an opening behind the blade allows for a sure hold when you're doing detailed cutting work. The end of the handle features a bottle opener, and the molded polymer grip ensures excellent control and slip prevention. Sheath included. **Length:** 15˝. **Weight:** 2 lbs.

Council Apocalaxe	2 lbs.	**33060**	**$114.95**

Estwing

Estwing® Sportman's Axe

1748

Blade and handle forged from one piece of steel. Handle guaranteed unbreakable in normal use. 13-1/2˝ Long, 3-1/4˝ blade. Leather handle. Leather sheath included.

Estwing Sportman's Axe with Leather Handle			
2 lbs.		**33038**	**$41.95**
	4+		**$39.75**

Estwing

Estwing® Fireside Friend® Splitting Tool

8526

Handle length and weight provide excellent leverage and power for easy wood splitting. Forged one-piece solid steel construction. Nylon vinyl grip. 14˝ Overall length with 2-3/8˝ cutting edge.

Estwing Fireside Friend Splitting Tool			
4 lbs.		**33075**	**$38.50**

Estwing

Estwing® All-Steel Camper's Axe

1750

16˝ Long axe features all steel construction and cushion grip vinyl handle. Polished head, 4˝ blade. Leather sheath included.

Estwing All-Steel Camper's Axe			
3 lbs.		**33054**	**$49.25**
	4+		**$46.95**

Estwing

Estwing® All Steel Camper's Single Bit Axe

7846

4˝ blade, 26˝ steel handle, leather sheath.

Estwing All Steel Camper's Axe			
4 lbs.		**33055**	**$53.95**

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Council® Double Bit Axe
1756

Made in USA

10-1/2″ blade, 3.5 lb. head, 36″ straight hickory handle.

Council Double Bit Axe 5 lbs.		33110	$41.75
	3+		$39.50
Replacement Hickory Handle 2 lbs.		33236	$14.50

Council® Single-Bit Axe
7847

Made in USA

3-7/8″ blade, 2.25 lb. head, 28″ curved hickory handle.

Council Single-Bit Axe 3 lbs.		33109	$32.50
	3+		$30.25
Replacement Hickory Handle 1 lb.		33225	$11.95

Council® Hudson Bay Single Bit Axe
1755

Made in USA

4-1/8″ blade, 2 lb. head, 28″ curved hickory handle.

Council Hudson Bay Axe 3 lbs.		33108	$39.75
Replacement Hickory Handle 1 lb.		33225	$11.95

Council® Jersey Single Bit Axe
7848

Made in USA

5-1/8″ blade, 3-1/2 lb. head, 36″ curved hickory handle.

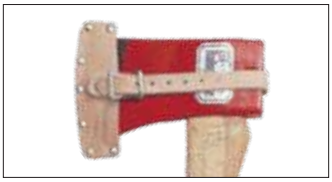
Council Jersey Axe 5 lbs.		33261	$51.25
36″ Replacement Handle 2 lbs.		75002	$15.25

Axe Edge Guards
6700

Leather Axe Edge Guard

Fits blade edges up to 5-3/8″L. (For use with 33261.)

Leather Axe Edge Guard 5 oz.		27275	$14.50



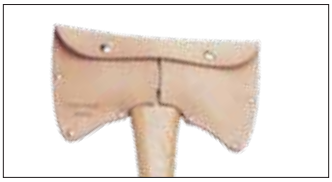
Leather Axe Edge Guard

Fits cutting edges 4-1/2″ or less. Use on 3-1/2 lb. single bit axes.

Leather Axe Edge Guard 2 oz.		33362	$7.95

Single Bit Leather Axe Sheaths

For 2 lb. heads, Hudson Bay Pattern 4 oz.		33220	$10.95
For 2-1/4 lb. heads 5 oz.		33130	$12.25



Double Bit Axe Leather Sheaths

For 3-1/2 lb. heads 7 oz.		33160	$19.50

Round Axe Stone
6142

Coarse grit on one side; fine grit on other side. **Dimensions:** 3″ x 5/8″.

Round Axe Stone	6 oz.	33910	$9.50

Council® Miner's Axe
7103

Made in USA

Dayton style, 4-1/2″ blade, 3-1/2 lb. head, 20″ hickory handle.

Council Miner's Axe	5 lbs.	33162	$32.75
	3+		$30.75
Leather Axe Edge Guard	2 oz.	33362	$7.95

Council® Camp Axe
6696

Made in USA

General purpose axe is ideal for cutting wood and driving wooden stakes. Single cutting bit, flat poll, 3″ blade, 1.25 lb. head, and 14″ curved hickory handle.

Council Camp Axe	2 lbs.	33107	$22.95
Leather Sheath	4 oz.	33106	$10.75

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Council Velvicut® American Felling Axe
7779

4 lb. axe head coated with oil to prevent rusting. 36″L grade "A" American hickory handle. Blade is forged from 5160 grade alloy steel. Hardened edge extends 1-1/2″ up the bit.

Velvicut American Felling Axe 7 lbs.	33090	$164.95

Caution: Use caution when handling this axe, the blade is hand honed to razor sharpness.

Council Velvicut® Hudson Bay Axe
7780

2 lb. axe head is coated with oil. 19″L grade "A" American hickory handle. Blade is forged from 5160 grade alloy steel. Edge tempered to Rc 50-54.

Velvicut 2 lb. Hudson Bay Axe 4 lbs.	33091	$123.95

Caution: Use caution when handling this axe, the blade is hand honed to razor sharpness.

New! Council Velvicut® Bad Axe Boy's Axe
4807

2.25 lb. axe head is coated with light oil to prevent rusting. 28″L Grade "A" American hickory handle. Modeled after the "Boy's Axe" and sharpened to the USFS sharpening gauge. Blade is forged from 5160 grade alloy steel. Heat treated to Rc 52-56 for superior edge holding and durability.

Velvicut Bad Axe Boy's Axe 5 lbs.	33092	$139.95

Caution: Use caution when handling this axe, the blade is hand honed to razor sharpness.

Council Sledgehammer
3020

Heavy-duty sledgehammer with 8 lb. head and a 36″ Hickory handle.

Council Sledgehammer	9 lbs.	33266	$26.50
Replacement Hickory Handle	2 lbs.	33182	$11.75

True Temper® True American® 12 lb. Lickety Splitter
2787

This wood splitter features a hefty 12 lb. head and a 6.75″W x 3.5″H blade to ensure fast, easy cuts. The 34″ steel handle features a molded polypropylene cover for ultimate strength and a comfortable rubber hand grip.

True Temper Lickety Splitter	15 lbs.	33011	$45.25

DESKTOP. TABLET. MOBILE.
THE NEW
FORESTRY-SUPPLIERS.COM

New! Timber Tuff™ Timber Blaster Splitting Wedge
4834

Unique design allows four-direction pressure for fast and easy splitting! Rugged cast steel construction holds up to tough beatings even with tough knots.

Timber Tuff 4 lb. Timber Blaster Splitting Wedge 7″L x 3″Dia. 4 lbs.	33222	$14.50
Timber Tuff 6 lb. Timber Blaster Splitting Wedge 8.3″L x 3.3″Dia. 6 lbs.	33223	$22.75

True Temper® Five-Pound Wood Splitting Wedge
6699

Made of forged, heat-treated steel for superior durability. Measures 2.5″W x 1.75″H x 8.25″L.

True Temper Five-Pound Wood Splitting Wedge 5 lbs.	75152	$16.25
	6+	$14.75

Wells Lamont® Top Grain Pigskin Gloves pages 127 & 619

OFF! Deep Woods DRY Insect Repellent page 648

[search engine powered by magazooms.com]

1 New! Echo® CS-590 Timber Wolf Chainsaw
4919

Setting a new standard for toughness, this rugged chainsaw features a professional-grade 59.8 cc two-stroke engine. The G-Force Engine Air Pre-Cleaner™ extends engine life by spinning out dirt, and the heavy-duty air filter is easily accessible. A side-access chain tensioner allows for quick adjustments. In addition, the chainsaw features a digital ignition system, a decompression valve, a spring anti-vibration system, a clutch-driven oiler, a dual-post chain brake system, and a translucent fuel tank.

Engine Size: 59.8 cc. **Weight:** 13.3 lbs. **Fuel Tank Capacity:** 21.8 oz. **Chain Oil Capacity:** 10.1 oz. **Warranty:** 5-Year Consumer; 1-Year Commercial.

Echo CS-590 Timber Wolf Chainsaw with 18″ Bar	20 lbs.	**80135**	**$389.95**
Echo CS-590 Timber Wolf Chainsaw with 20″ Bar	21 lbs.	**80136**	**$399.95**

2 New! Echo® CS-400 Chainsaw
4918

Combining professional features and excellent value, the CS-400 utilizes a 40.2 cc Power Boost Vortex™ engine to provide plenty of cutting power. A G-Force Engine Air Pre-Cleaner™ increases engine life by spinning out dirt, and the automotive-style air filter ensures outstanding filtration. The side-access chain tensioner allows for quick adjustments, and the i-30™ starting system reduces starting effort by 30%. Additional features include a computerized ignition advance system that automatically adjusts engine timing, an adjustable automatic oiler, a cold weather by-pass for easy starting during winter, and a vibration reduction system.

Bar Length: 18″. **Engine Size:** 40.2 cc. **Weight:** 10.1 lbs. **Fuel Tank Capacity:** 13.9 oz. **Chain Oil Capacity:** 9.5 oz. **Warranty:** 5-Year Consumer; 1-Year Commercial.

Echo CS-400 Chainsaw with 18″ Bar	16 lbs.	**80134**	**$299.95**

3 Echo® CS-355T Chainsaw
7330

The CS-355T is Echo's most advanced, powerful and ergonomically correct top handle saw ever produced! Designed based on the input of professional arborists, it features a 35.8cc professional-grade engine, compact size, a chain brake lever, an ergonomic handle for great operator comfort, a reduced effort starter, a purge bulb, a clutch-driven automatic adjustable oiler, a G-Force Engine Air Pre-Cleaner™, a removable palm rest which provides support to your hand and prevents slipping, and a swing-out lanyard.

Bar Length: 16″. **Engine Size:** 35.8 cc. **Weight:** 8 lbs. **Fuel Tank Capacity:** 11.2 oz. **Chain Oil Capacity:** 8.2 oz. **Warranty:** 1 Year.

Echo CS-355T Chainsaw with 16″ Bar	8 lbs.	**80131**	**$461.95**
Replacement 16″ Bar	1 lb.	**80126**	**$32.95**
Replacement Chain for 16″ Bar	8 oz.	**80127**	**$15.75**

4 Echo® CS-303T Chainsaw
7330

Built for professionals, this top handle chainsaw is dependable, easy starting, lightweight, and well-balanced! Features include a 30.1 cc professional-grade engine, a throttle lock for easy starting, an inertia brake chain, rubber isolation mounts for vibration reduction, dual bar studs, side access chain tensioner, replaceable nylon chain catcher, and a metal lanyard ring.

Bar Length: 14″. **Engine Size:** 30.1 cc. **Weight:** 7.7 lbs. **Fuel Tank Capacity:** 8.5 oz. **Chain Oil Capacity:** 5.1 oz. **Warranty:** 5-Year Consumer; 1-Year Commercial.

Echo CS-303T Chainsaw with 14″ Bar	12 lbs.	**80132**	**$364.50**
Replacement 14″ Bar	1 lb.	**80121**	**$47.25**
Replacement Chain for 14″ Bar	7 oz.	**80122**	**$14.25**

5 Oregon PowerNow 40V MAX Cordless Chain Saw
4764

Always ready! Designed with all the battery muscle needed to get the job done. Runs cleaner, quieter, and is free from the hassles of gasoline or cords. Simply pull the trigger for an instant start, long run time and constant, no-fade power. 40V MAX Lithium Ion Battery holds a charge for months and provides high power for fast cutting with a 14″ bar. Other features include PowerSharp® System that sharpens on the saw, on the job, in seconds; low noise and silent between cuts; plus, it is lightweight and balanced with low vibration.

Bar Length: 14″. **Chain/Pitch/Gauge:** PowerSharp® 3/8″ low profile, 0.050″ gauge. **Oil System:** Automatic oiler with 5.9 oz. tank capacity. **No Load Chain Speed:** 2350 FPM. **Weight:** 11 lbs. with 1.25 Ah battery pack; 12 lbs. with 2.4 Ah battery pack. **Battery Life:** approximately 1,000 charge/discharge cycles.

Chain Saw Kit with 1.25Ah Battery Pack	18 lbs.	**80175**	**$349.00**
Chain Saw Kit with 2.4 Ah Battery Pack	19 lbs.	**80176**	**$399.00**
Chain Saw (Tool Only)	15 lbs.	**80174**	**$249.00**
Replacement Chain, 14 inch (includes sharpening stone)	9 oz.	**80181**	**$35.00**
Replacement Guide Bar, 14 inch	1 lb.	**80182**	**$29.00**

Elvex® ProWedge Pouch™
4679

Attaches to sawyer's belt and provides room for 2 large wedges, one small wedge, and side pockets for wrench and a chain saw file. Made from 1000 Denier. 3.5″W for wedges, 2″W side pockets, 13″L. Orange.

Elvex ProWedge Pouch	2 oz.	**75128**	**$11.60**

Wedges
6699

Aluminum Saw Wedge

Resists mushrooming, will not damage chainsaw or crosscut saw. 7″ Long, 3-1/2″ wide.

Aluminum Saw Wedge	1 lb.	**75121**	**$21.95**

High Impact Wedge/Orange

Shatter-proof, with excellent impact strength. Made of high quality ABS resin.

8″ x 2-3/4″ x 1″	8 oz.	**75119**	**$3.75**
10-1/2″ x 3″ x 1-1/8″	12 oz.	**75120**	**$4.60**
12″ x 3-1/2″ x 1-1/2″	1 lb.	**75123**	**$6.10**

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Oregon Chain Saw Chains and Oregon Chain Saw Bars

7598, 7599

Top quality cutting chains from a name you can count on at an affordable price!

1 Oregon 22LPX Saw Chain

High performance chain for professional woodcutters who use 0.325″-pitch saws. Features blued cutters for superior corrosion-resistance and improved strength, "X" grind which improves out-of-box sharpness and substantial speed improvement in boring and bias modes, top-performing square-corner "chisel" cutters, and bumper drive links to help reduce kickback.

2 Oregon 72LGX & 73LGX Saw Chain

The ideal chain for high-production cutting of clean wood. Oregon OCS-01 steel provides greater durability, especially in cold cutting conditions. Other features include blued cutters for superior corrosion-resistance and improved strength, "X" grind which improves out-of-box sharpness and substantial speed improvement in boring and bias modes, tumbled parts reduce friction and stretch, offset ramp-shaped depth gauges reduce roughness, and clean ground gullets for increased chip flow and evacuation.

3 Oregon 72LPX Saw Chain

Oregon® OCS-01 chain steel provides greater durability, especially in cold cutting conditions. Other features include round-ground chisel cutters with bumper drive links and standard sequence, blued cutters for superior corrosion resistance and improved strength, "X" grind which improves out-of-box sharpness and substantial speed improvement in boring and bias modes, tumbled parts reduce friction and stretch, offset depth gauges reduce roughness, and LubriLink™ tie straps to help keep oil on the chain.

Recommended Saw Size	Pitch	Oregon Style	Model	Loop	Gauge	Drive Links	Weight	SN	$
38cc to 62cc	0.325″	1 22LPX	22LPX067	16″	0.063	67	10 oz.	**75420**	**$15.25**
			22LPX074	18″	0.063	74	12 oz.	**75421**	**$16.25**
			22LPX081	20″	0.063	81	12 oz.	**75422**	**$18.25**
50cc to 100cc	3/8″	2 72LGX	72LGX060	16″	0.050	60	10 oz.	**75414**	**$14.95**
			72LGX068	18″	0.050	68	12 oz.	**75415**	**$16.50**
			72LGX072	20″	0.050	72	13 oz.	**75416**	**$18.50**
	3/8″	2 73LGX	73LGX060	16″	0.058	60	11 oz.	**75417**	**$14.95**
			73LGX068	18″	0.058	68	12 oz.	**75418**	**$16.25**
			73LGX072	20″	0.058	72	13 oz.	**75419**	**$18.50**
	3/8″	3 72LPX	72LPX060	16″	0.050	60	11 oz.	**75423**	**$14.95**
			72LPX066	18″	0.050	66	11 oz.	**75424**	**$15.95**
			72LPX072	20″	0.050	72	13 oz.	**75425**	**$18.25**

4 Power Match® Saw Bar

The industry standard for professional users cutting clean wood. The nose fastens with a single rivet and is securely held by wide, strong, overlapping ears. The long nose takes most of the abuse minimizing wear to the body. Other features include Lubri-Dam® which prevents oil from running out the bar's tail, keeping more oil on the bar and chain; Lubri-Jet® oil holes that reduce oil-hole plugging and enhance bar-chain lubrication; and super-tough chrome-moly steel provides superior bar-body strength and tough rails with excellent resistance to wear and chipping.

5 Pro-Lite® Saw Bar

Sprocket-nose laminated bars for full-time woodcutters who need the best combination of value and professional durability for cutting clean wood with small- to medium-size saws. Features slim contour for excellent maneuverability; Lubri-Dam® which prevents oil from running out the bar's tail, keeping more oil on the bar and chain; and super-tough chrome-moly steel provides superior bar-body strength and tough rails with excellent resistance to wear and chipping.

Find more chains and bars on our website.

Saw Bar	For Use With	Length	Pitch	Gauge	Weight	SN	$
4 Power Match Plus	Stihl	16″	3/8″	0.050	2 lbs.	**75300**	**$45.25**
	Stihl	18″	3/8″	0.050	2 lbs.	**75301**	**$48.25**
	Stihl	20″	3/8″	0.050	3 lbs.	**75302**	**$50.50**
	Stihl	24″	3/8″	0.050	4 lbs.	**75303**	**$63.25**
	Stihl	16″	0.325″	0.063	2 lbs.	**75313**	**$44.95**
	Stihl	18″	0.325″	0.063	3 lbs.	**75314**	**$48.25**
	Husqvarna, Jonsored, Dolmar	16″	0.325″	0.058	2 lbs.	**75326**	**$44.95**
	Husqvarna, Jonsored, Dolmar	18″	0.325″	0.058	2 lbs.	**75327**	**$48.25**
	Husqvarna, Jonsored, Dolmar	20″	0.325″	0.058	3 lbs.	**75328**	**$50.50**
5 Pro-Lite	Stihl	16″	3/8″	0.050	2 lbs.	**75304**	**$39.75**
	Stihl	18″	3/8″	0.050	2 lbs.	**75305**	**$42.25**
	Stihl	20″	3/8″	0.050	3 lbs.	**75306**	**$44.50**
	Stihl	16″	0.325″	0.063	2 lbs.	**75315**	**$39.75**
	Stihl	18″	0.325″	0.063	2 lbs.	**75316**	**$42.25**
	Stihl	20″	0.325″	0.063	3 lbs.	**75317**	**$44.50**
	Husqvarna, Jonsored, Dolmar	16″	0.325″	0.050	2 lbs.	**75320**	**$39.75**
	Husqvarna, Jonsored, Dolmar	18″	0.325″	0.050	2 lbs.	**75321**	**$42.25**
	Husqvarna, Jonsored, Dolmar	20″	0.325″	0.050	2 lbs.	**75322**	**$44.50**
	Husqvarna, Jonsored, Dolmar	16″	0.325″	0.058	2 lbs.	**75323**	**$39.75**
	Husqvarna, Jonsored, Dolmar	18″	0.325″	0.058	2 lbs.	**75324**	**$42.25**
	Husqvarna, Jonsored, Dolmar	20″	0.325″	0.058	2 lbs.	**75325**	**$44.50**
	Echo, Homelite, Jonsored, Poulan, Sears, Schindaiwa	16″	0.325″	0.050	2 lbs.	**75329**	**$39.75**
	Echo, Homelite, Jonsored, Poulan, Sears, Schindaiwa	18″	0.325″	0.050	2 lbs.	**75330**	**$42.25**

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New! TimberLine Saw Sharpener
4857

Provides you with professional sharpening results on your saw chain and keeps your saws cutting at peak performance! Every tooth is sharpened evenly with the carbide cutter fitted on a hand crank, so you get identical height, length and angle on each tooth for top cutting results. An adjustable stop or pawl pushes the chain forward into the carbide cutter setting the length of each cutting tooth. The solid platform acts as a fixed guide to sharpen each cutting tooth accurately on the chain with little or no deviation. Angles are set at a standard 30°. The TimberLine Saw Sharpener can be used on virtually all chainsaws. 3/8″ Pitch requires 7/32″ carbide cutter (or 13/64ths if the manufacturer suggests). .325″ Pitch requires a 3/16″ carbide cutter. 3/8″ Low profile pitch requires a 5/32″ carbide cutter. **Note:** Carbide Bits must be purchased separately.

TimberLine Saw Sharpener	1 lb.	**94500**	**$104.95**
5/32″ Carbide Bit for 3/8″ Low Profile Pitch	1 oz.	**94547**	**$24.95**
7/32″ Carbide Bit for 3/8″ Pitch	1 oz.	**94550**	**$24.95**
13/64″ Carbide Bit for 3/8″ Pitch	1 oz.	**94548**	**$24.95**
3/16″ Carbide Bit for 0.325″ Pitch	1 oz.	**94549**	**$24.95**
Angle Guides, 25° and 35° – Includes a 25° Angle Guide for hard, dense wood and a 35° Angle Guide for soft, dry wood. Hex wrench included.	1 oz.	**94505**	**$14.95**

Maxx Pro Chainsaw Sharpening System
7174

Built to perfectly grind both the right and the left teeth of the saw chain thanks to a patented, easy system that grinds both sides by the rotation of the wheel from the outside to the inside, without leaving any imperfection on the outer edges. The vise is automatically locked when the head/motor/wheel group is lowered to grind the chain. Three grinding wheels included (5-5/8″ x 1/8″, 5-5/8″ x 3/16″, and 5-5/8″ x 1/4″).

Engine Type: 120V-60Hz-180W. **Engine Rounds:** 3200 RPM. **Noise Level:** <70 dB(A). **Grinding Wheel's Exterior Diameter:** 145. **Grinding Wheel's Interior Diameter:** 22.

Maxx Pro Chainsaw Sharpening System	21 lbs.	**94571**	**$399.95**
5-5/8″ x 1/8″ Replacement Wheel	6 oz.	**94572**	**$15.95**
5-5/8″ x 3/16″ Replacement Wheel	7 oz.	**94573**	**$22.95**
5-5/8″ x 1/4″ Replacement Wheel	10 oz.	**94574**	**$15.95**

Granberg Precision Chainsaw Chain Sharpener
1466

The speed of an electric grinder and the accuracy of a bar-mounted guide.

The 24,000 RPM grinder features a Kevlar® reinforced drive belt, high speed micro ball bearings, and heat-resistant polycarbonate case. Adjustable dials and thumb nuts allow you to set precise sharpening angles and grinding depths. The sharpener's 8′ power cord features alligator clip ends for attachment to any 12V battery to sharpen chains at the job site. Included with the sharpener are two grinding wheels (7/32″ and 1/4″) and instructions.

Precision Grinder	2 lbs.	**94526**	**$81.50**
5/32″ Grinding Wheels, Pack of 3	1 oz.	**94528**	**$7.75**
3/16″ Grinding Wheels, Pack of 3	1 oz.	**94529**	**$7.75**
7/32″ Grinding Wheels, Pack of 3	1 oz.	**94530**	**$7.75**
1/4″ Grinding Wheels, Pack of 3	1 oz.	**94531**	**$7.75**

PFERD Chain Saw Files
7204

The high-precision spiral cut of these files provides outstanding sharpness and ultra-long tool life. Use for fast, score-free sharpening of saw chain teeth. Remove stock sparingly and without undue loads on the metal. Box of 6 files. Handles sold separately.

8″L x 3/16″Dia., Chain Pitch (Inches): 0.325.	6 oz.	**75156**	**$8.25**
8″L x 7/32″Dia., Chain Pitch (Inches): 3/8, 0.404, 7/16.	8 oz.	**75157**	**$8.25**
8″L x 5/32″Dia., Chain Pitch (Inches): 1/4, 0.370.	4 oz.	**75158**	**$8.25**
Wood Handle (ea.)	2 oz.	**75155**	**$2.75**

Top Saw® Chainsaw Pocket Wrench
7725

All-in-one chainsaw tool! Features a large screwdriver, a T27 Torx for all bolts on a Stihl chainsaw, a small screwdriver, a 4 mm Allen Wrench for work on Echo and Husqvarna saws, a 13 mm (1/2″) socket that will fit a bar nut on a half or full wrap handle Husqvarna saw, and deep sockets (19mm x 10mm and 21mm x 16mm) for the spark plug on all saws and a bar nut on a Stihl saw. Can also be used as a chainsaw file handle. Complete with a waterproof nylon sheath.

19mm x 10mm and 21mm x 16mm	1 lb.	**75191**	**$17.95**

WEDCO Two-in-One Mix Gas/Bar Oil Container
6300

Made of high-density polyethylene for unlimited uses. Store two-cycle gas/oil mix in one side and chain bar oil in other side. Spouts meet CARB compliant standards and are child-resistant. UL® classified, MA Fire Marshall approved, and C.S.A. approved.

1-1/2 gal. (2-1/2 qt.)	2 lbs.	**93260**	**$30.95**
		6+	**$28.95**
		12+	**$25.50**

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New! Forester Cap Aluminum Hard Hat
4961

Cap style aluminum hard hat features a four-point ratchet suspension that fits comfortably and snugly on your head. Complies with ANSI Z89.1-2003 Standards, Type 1 Class C.

New! Forester Full Brim Aluminum Hard Hat
4961

Full brim aluminum hard hat features a four-point ratchet suspension that fits comfortably and snugly on your head. Complies with ANSI Z89.1-2003 Standards, Type 1 Class C.

	Unpainted Aluminum	Orange	Safety Green	Weight	Each	5+		
Cap	24526	24528	24530	15 oz.	$54.95	$49.95		
Hat	24527	24529	24532	1 lb.	$54.95	$49.95		

Note: Do not use near electrical hazards.

Replacement Suspension for Aluminum Hard Hats	4 oz.	24533	$16.95
		5+	$15.50

SwedePro™ Leather Chain Saw Boots
2174

Superior chain saw protection plus superior comfort!

These full-grain leather steel toe boots are lined with multiple layers of Kevlar® for excellent chain saw protection. Deep foam in the pillow cushion innersoles cushions each step, and a 3″ steel shank provides extra support. The boots are silicone treated to repel moisture and triple stitched for extra durability. The high-abrasion Vibram® soles can withstand the demands of almost any terrain. The extra wide steel toe meets ANSI standard Z41PT83, and the boots meet the requirement for chain saw protective footwear in OSHA reg. 1910.266. **Color:** Black. **Width:** Medium (Boot accommodates up to EEE width). **Note:** Other sizes available. Call for details.

Size 6	Size 7	Size 7.5	Size 8	Size 8.5	Size 9	Size 9.5	Size 10	Size 10.5	Size 11	Size 11.5	Size 12	Size 13	Weight	$
22962	22963	22979	22964	22997									4 lbs.	$260.00
					22965	22998	22966	22999	22967	23002	22968	22969	6 lbs.	$260.00

Timberwolf® Chain Saw Boots
6532

Protect your feet, ankles and shins from injury while operating your chain saw!

These boots meet CSA Class #1 steel toe and plate standards. Lined with multi-layers of Ballistic Nylon for woodland safety, these waterproof boots also feature an extra-wide steel toe, a spring-steel inner sole for excellent support, and a steel shank that runs the entire length of the boot for extra support. Lug Sole. Boots meet CE Class 2 Chainsaw Resistance, ASTM f1818 Chainsaw Protection, and CSA Omega-Electric Shock Resistant standards. Orange/green.

	Size 8	Size 9	Size 10	Size 11	Size 12	Size 13	Weight	$
Lug Sole	23572	23573	23574	23575	23576	23577	10 lbs.	$111.75

Note: All sizes listed are men's sizes. A woman should order the men's size which is two sizes smaller than the women's size she wears (e.g., men's size 5 would be equivalent to a women's size 7).

Forestry Suppliers Logger's First Aid Kits
3612

OSHA Mandated Kits

These kits contain first aid supplies adequate for small logging work sites consisting of approximately two or three employees. Each kit includes the following: ten 4″ x 4″ gauze pads; two 8″ x 10″ gauze compresses; 16 adhesive bandages; two 2″ wide rolls of gauze bandage; two triangular bandages; 10 antiseptic towelettes; scissors; two rescue blankets; tweezers; one roll of adhesive tape; latex gloves; one CPR mask; two elastic bandages; one tourniquet; 12 diphenhydramine Caps; splint; a writing pad and marker; and complete instructions for requesting emergency assistance. Kits are available in either a heavy-duty, metal case or an economical, plastic case. Both meet OSHA Standard 1910.266 Appendix A and USFS specifications.

Heavy-duty Metal Case 3 lbs.		25258	$47.95
		4+	$45.50
Economy Plastic Case 2 lbs.		25259	$41.50
		4+	$38.50

Made in USA

Orion® Safety Signal Horn
8329

Meets US Coast Guard requirements for boats over 65′. Non-flammable, environmentally safe propellant. 100% ozone safe. Made in USA.

8 oz. Safety Signal Horn 15 oz.	A	24245	$28.25
		6+	$25.50
Refill for 8 oz. Safety Signal Horn 12 oz.	A	24246	$24.95
		12+	$21.25

A Extra Charge if Shipped by Air. See Shipping Information for details.

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ELVEX

Elvex® ProGuard Loggers Caps
1473

Head, face, and hearing protection in one unit.

Meets SEI; ANSI Std. Z89.1-2009, Class E, G, C; OSHA; and EPA standards. Three-rib design raintrough safety cap made of high-density polyethylene. Adjustable suspension fits sizes 6-1/2 to 8. Elvex® earmuffs offer excellent Noise Reduction Ratings (NRR), yet human voices can be heard in the low frequency range. Muffs deliver virtually the same low pressure regardless of face and cap size, with convenient "flip out" position for quiet periods. Tight-fitting visor bracket rests snugly on bill of cap, keeps sawdust from getting inside cap. Nylon mesh visor measures 6″ x 11″. 100% Dielectric.

27dB NRR CU60, Large Muffs, Ratchet Suspension	2 lbs.	**24460**	**$42.50**
25dB NRR CU30R, Medium Muffs, Ratchet Suspension	2 lbs.	**24457**	**$39.95**
27dB NRR Muffs with Brackets	11 oz.	**24463**	**$21.50**
25dB NRR Muffs with Brackets	11 oz.	**24388**	**$13.50**
		6+	**$11.95**
Muff Bracket for 24460, 24463, and 24388	3 oz.	**24418**	**$11.50**
Visor Bracket	2 oz.	**24372**	**$8.85**
Nylon Mesh Visor (Requires 24372)	2 oz.	**24390**	**$9.25**
Steel Mesh Visor (Requires 24372)	3 oz.	**24389**	**$9.50**

ELVEX

Elvex® ProVest™
1476

The first genuine chainsaw resistant upper body protection in the world!

Made of urethane-coated 420 denier fabric, the vest contains eight layers of Prolar™ safety material, covering most of the chest and shoulders. This water- and wind-resistant vest has extended shoulders, large front and back vents, longer back panel, and large inside zippered pocket.

ProVest Medium, Chest Size: 38″ to 40″ 1 lb.	**23546**	**$67.75**
ProVest Large, Chest Size: 42″ to 44″ 1 lb.	**23547**	**$67.75**
ProVest X-Large, Chest Size: 46″ to 48″ 1 lb.	**23548**	**$67.75**

Elvex® ProChaps™ Chain Saw Chaps
1475

Protective Prolar™ pads burst apart upon chain saw contact.

These chaps feature Prolar™ protective pads with specially woven fibers designed to burst apart upon contact with a chain saw chain and jam the chain against the saw's bar and sprocket. The chaps provide 180° of coverage plus 4″ on the left side of each leg. Plastic quick-release buckles, high visibility orange exterior, and zippered front pockets. Two styles available. UL® approved. Class A certified. Chaps fit waist sizes 32″ to 48″. **Chain speed protection:** 2,750 ft. per minute.

90 Series ProChaps™ – The strong 420 denier nylon outer shell is extremely lightweight and resistant to water, oil, mildew, and abrasions. Features two leg straps and buckles. Available in two lengths – 33″ and 36″ (from waist). UL® approved. Class A certified. Safety orange.

94 Series ProChaps™ – The exterior is constructed of tough 1,000 denier nylon which resists water, oil, mildew, and abrasions. Features three leg straps and buckles. Available in two lengths– 33″ and 36″ (from waist). UL® approved. Class A certified. Safety orange.

	Weight	33″L	36″L	Each
90 Series	2 lbs.	**23544**		**$69.95**
	2 lbs.		**23545**	**$69.95**
94 Series	2 lbs.	**23541**	**23542**	**$89.95**

Forestry Suppliers Lumberjack Hardhat System
3848

6-Point Suspension

Designed for protection and comfort, the lightweight and dielectric AOSafety XLR8 Hardhat with 6-point ratchet suspension features an exclusive patented front visor sealing to prevent debris from falling between the mesh and hardhat. The V1A metal mesh visor and hearing protectors can be raised up and down. The hardhat complies with ANSI Z89.-2009, Type 1, Class C, G and E standards. Hearing protectors meet ANSI S3.19-1974 standards. 21dB NRR.*

Lumberjack 6-Pt. Suspension Hardhat System	2 lbs.	**24433**	**$41.95**
Replacement Hearing Protector with Attachment	1 lb.	**24406**	**$36.95**

Ratchet-Tight Suspension

Tasco Woodsman Hardhats
1472

Sturdy hardhat with padded, six-point suspensions, adjustable hearing protectors, and nylon visor carriers with black mesh steel screens. Meets or exceeds ANSI Standards: ANSI Std. Z89.1-1997 Type I, Class C, E and G for hard hats; ANSI Std. S3.19-1974 for ear muffs; mesh screen, ANSI Std. Z87-S 1992 for mesh screens; ANSI Std. Z87.1-1997 for visor carriers.

Woodsman 6000

Features an adjustable, snap-lock suspension system and low-profile earmuffs (22 NRR*).

Woodsman 6000	2 lbs.	**24467**	**$40.25**
		6+	**$35.75**

Woodsman 6001

Features a premium, ratchet-tight suspension system which adjusts for snug, comfortable fit and superior earmuffs (24 NRR*) with ultra-soft cushions.

Woodsman 6001	2 lbs.	**24468**	**$41.75**
		6+	**$37.50**

Replacement Parts and Accessories

22 NRR Low-Profile Earmuffs For Model 6000	15 oz.	**24475**	**$20.95**
24 NRR Ultra-Soft Earmuffs For Model 6001	11 oz.	**24471**	**$16.25**
Visor Carrier For Models 6000, 6001	2 oz.	**24472**	**$6.50**
Steel Mesh Face Screen For Models 6000, 6001	3 oz.	**24473**	**$6.35**

*Noise Reduction Rating

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PGI 5-Ply Para-Aramid Chain Saw Chaps

7335

UL classified to NFPA 1977 current edition for Protective Clothing and Equipment for Wildland Firefighting and built in accordance with U.S. Department of Agriculture Forestry Specification 6170-4G, January 20, 2000. Designed to clog a running chain saw upon contact to give the user substantially more reaction time in the event of an accident, PGI chaps feature 5 layers of Para-Aramid synthetic fiber – 3 woven and 2 felt – plus a 1000 denier nylon shell that resists water, mildew, oil and moisture. The Para-Aramid plies extend upward from the bottom of the leg to the waist band. Features a multiple compartment tool pocket on the left side attached to the waist belt, a 2″W adjustable waist belt, 1″W adjustable leg straps, and quick-release buckles. Chaps fit waist sizes 32″ to 46″. Available in 32″, 36″ and 40″ lengths (measured from top of waist-belt to bottom of chap). **Colors:** Orange and Forest Green.

Accessories

13″ Belt Extender for PGI NFPA Chaps	2 oz.	**23435**	**$17.95**

Length	Green	Orange	Weight	Each	4+
32″L	**23601**	**23611**	2 lbs.	**$148.75**	**$142.95**
36″L	**23602**	**23612**	2 lbs.	**$159.50**	**$153.50**
40″L	**23603**	**23613**	3 lbs.	**$172.25**	**$166.50**

Sawbuck Four-Ply Para-Aramid Chain Saw Chaps

1641

Designed to clog a running chain saw upon contact! These four-ply chain saw chaps feature four layers of Para-Aramid, two woven and two felt. The 1000 denier nylon shell fabric resists water, mildew, oil, and moisture. Two-inch wide adjustable nylon belt, one-inch wide adjustable nylon leg straps, and quick-release buckles. Choose between Standard Coverage Chaps or the Extended Coverage Chaps which offer greater coverage along the left side of each leg. Chaps fit waist sizes 32″ to 46″.

Standard Coverage Chaps

Our Standard Coverage Chaps provide 180° of protection across the front of both legs and have a tool pouch with cover flap and snap closure attached to the belt. Available in two colors and a variety of sizes.

Color	28″L	32″L	36″L	40″L	Weight	Each	4+
Green	**23529**				2 lbs.	**$105.75**	**$100.50**
		23530			2 lbs.	**$112.95**	**$107.75**
			23531		2 lbs.	**$120.75**	**$115.50**
				23532	2 lbs.	**$128.95**	**$121.95**
Safety Orange	**23533**				2 lbs.	**$109.95**	**$103.50**
		23534			2 lbs.	**$117.95**	**$110.95**
			23535		2 lbs.	**$127.50**	**$119.75**
				23536	2 lbs.	**$134.95**	**$126.50**

Extended Coverage Chaps

Protect even more of your legs from chain saw injuries with our Extended Coverage Chaps. In addition to covering the same frontal areas as our Standard Coverage Chaps, they offer an extra four inches of protection along the left side of both legs, where most chain saw injuries occur. Available in two lengths – 36″ and 40″. Does not include tool pouch. UL® Approved to ASTM F1897-08.

Accessories

13″ Belt Extender for Saw Chaps	2 oz.	**23400**	**$19.25**

Color	28″L	32″L	36″L	40″L	Weight	Each	4+
Green			**23554**		2 lbs.	**$122.75**	**$115.50**
				23555	2 lbs.	**$129.95**	**$122.50**

Woodcutters' Chain Saw Gloves

1477

Kevlar® inner lining on back of hand and fingers jam teeth of chain saw to help prevent serious injury. Flexible, sturdy leather with elastic knit wrist.

Medium	8 oz.	**91070**	**$34.95**
Large	9 oz.	**91071**	**$34.95**
X-Large	9 oz.	**91072**	**$34.95**

SwedePro™ Chain Saw Protective Pants

2175

Lightweight, comfortable chain saw protection!

These pants are constructed of six layers of Engtex™, a hi-tech protective fabric composed of polyester, Trevia™, and polypropylene fibers. Upon contact with a chain saw chain, the fine filaments of the fabric are easily pulled and drawn into the chain saw to fill the moving parts of the chain saw chain. The outer shell front of the pants is constructed of durable Ambush® material, and the back is made of Visa® polyester for superior comfort and flexibility. Features of these five-pocket style pants include ski pant style leg zippers for fast and easy removal of boots, elasticized waist, and suspender buttons already attached. Machine wash and dry. UL® Classified. **Inseam length (hemmable):** 33″. **Color:** Navy blue.

Inseam	Small, 30″ to 32″ Waist	Medium, 34″ to 36″ Waist	Large, 38″ to 40″ Waist	X-Large, 42″ to 44″ Waist	Weight	Pair
33″	**23579**	**23580**	**23581**	**23582**	3 lbs.	**$112.00**

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CREW BOSS™
ALWAYS MADE IN THE USA

Crew Boss™ 6.0 oz. Nomex® IIIA Brush Shirt

6554

Constructed in accordance with NFPA 1977, current edition, standards for wildland fire fighting protective clothing and UL classified. Button-up front. Adjustable cuffs and two breast pockets have Velcro® closures. Yellow.

Crew Boss™ Tecasafe® Plus Brush Shirt

7951

Superior personal protection with dependable strength that is lightweight, breathable and inherently flame-resistant. Forest Service style button-front closure; large, spade-style pockets with hook and loop closures; hook and loop closures around the cuff to ensure a tight fit around the glove; extra-long square-cut tails; Nomex® thread throughout; and stress points bartacked at 10 locations.

Brush Shirt	S 34-36	M 38-40	L 42-44	X-L 46-48	XX-L 50-52	XXX-L 54-56	4X-L 58-60	Weight	Each	3+
6.0 oz. Nomex IIIA	23645	23646	23647	23648				15 oz.	$140.50	$129.75
					23649			1 lb.	$154.50	$142.95
						23650		1 lb.	$161.75	$149.50
							23610	1 lb.	$161.75	$149.50
Tecasafe Plus	23840	23841	23842					1 lb.	$95.25	$88.75
				23843				1 lb.	$95.25	$88.75
					23844			1 lb.	$104.75	$97.75
						23845		2 lbs.	$109.50	$102.25
							23846	2 lbs.	$114.25	$106.50

Crew Boss™ Tecasafe® Plus Brush Pants

7950

Engineered to provide unbeatable electric arc and flash fire protection that lasts twice as long as FR treated cotton fabrics. Elastic back band, seven oversized belt loops, two generous rear pockets, extra-deep front slash pockets, extra roomy leg and seat cut, crotch re-enforcement, unidirectional cargo pockets prevent snagging, hook and loop ankle straps covered with Nomex® fabric for heat resistance, brass, self-locking zippered fly with snap closure, Nomex thread throughout, and stress points bar-tacked at 38 locations for durability. Exceeds NFPA 70E HRC 2 and NFPA 2112 performance standards.

Crew Boss™ Brush Pants

6555

6.0 oz. Nomex IIIA or 6.8 oz. Nomex IIIA

Constructed in accordance with NFPA 1977, current edition, standards for wildland fire fighting protective clothing and UL classified. Oversized belt loops, 2″ elastic back band, two large rear pockets, two bellows thigh pockets with full flap closures, two front slash pockets, hook and loop ankle straps, and self-locking brass zipper fly with snap closure. Stitched with Nomex® thread throughout.

Crew Boss™ 7 oz. Advance™ Fabric Brush Pants

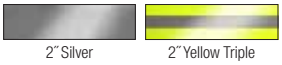
2106

Meets NFPA 1977, current edition, standards for wildland fire fighting clothing and UL classified. A two-ply yarn of 40% Nomex IIIA and 60% Kevlar is woven into the "Advance" fabric for outstanding flame resistance, as well as cut/tear protection. Stays strong and flexible even after extreme thermal exposure and remains breathable by absorbing sweat and releasing body heat. Oversized belt loops, 2″ elastic back band, 2 large rear pockets, 2 bellows thigh pockets with full flap closures, 2 front slash pockets, hook and loop ankle straps, and self-locking brass zipper fly with snap closure. Nomex thread throughout.

Brush Pants	Color	Inseam	Weight	S 27″-30″	M 31″-34″	L 35″-38″	X-L 39″-42″	XX-L 43″-46″	Each	3+
Tecasafe Plus	Spruce Green	30″	2 lbs.	23834	23835	23836	23837		$153.50	$146.95
			2 lbs.					23838	$168.75	$162.75
		New! 32″	2 lbs.	23853	23854	23855	23856		$153.50	$146.95
			2 lbs.					23857	$169.25	$161.75
		New! 34″	2 lbs.	23859	23860	23861	23862		$153.50	$146.95
			2 lbs.					23863	$169.25	$161.75
6 oz. Nomex	Spruce Green	30″	2 lbs.	23622	23631	23634	23641		$219.75	$202.75
			2 lbs.					23651	$241.75	$223.25
		32″	2 lbs.	23623	23632	23635	23642		$219.75	$202.75
			2 lbs.					23652	$241.75	$223.25
		34″	2 lbs.	23624	23633	23636	23643		$219.75	$202.75
			2 lbs.					23653	$241.75	$223.75
6.8 oz. Nomex IIIA	Spruce Green	30″	2 lbs.	23686	23687	23688	23689		$243.95	$218.50
			2 lbs.					23690	$268.25	$240.95
		32″	2 lbs.	23692	23693	23694	23695		$243.95	$218.50
			2 lbs.					23696	$268.25	$240.95
		34″	2 lbs.	23669	23679	23698	23699		$243.95	$218.50
			2 lbs.					23700	$268.25	$240.95
Advance Fabric	Spruce Green	30″	2 lbs.	23705	23706	23707	23708		$332.75	$296.95
			2 lbs.					23709	$365.95	$326.95
		32″	2 lbs.	23711	23712	23713	23714		$332.75	$296.95
			2 lbs.					23715	$365.95	$326.95
		34″	2 lbs.	23717	23718	23719	23720		$332.75	$296.95
			2 lbs.					23721	$365.95	$326.95
	Khaki	30″	2 lbs.	23723	23724	23725	23726		$332.75	$296.95
			2 lbs.					23727	$365.95	$326.95
		32″	2 lbs.	23729	23730	23731	23732		$332.75	$296.95
			2 lbs.					23733	$365.95	$326.95
		34″	2 lbs.	23735	23736	23737	23738		$332.75	$296.95
			2 lbs.					23739	$365.95	$326.95

XXX-Large, 47″ thru 50″, available on our website: www.forestry-suppliers.com

2 Reflective Trim Options for Brush Pants
By Special Order Only



2″ Silver — 2″ Yellow Triple

Call Customer Service at 1-800-752-8460 for details.

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CREW BOSS™
ALWAYS MADE IN THE USA

Crew Boss™ 7.5 oz. Nomex® IIIA Brush Coats

2107

NFPA 1977

Meets NFPA 1977, current edition, standard for wildland fire fighting protective clothing and UL classified. These brush coats feature large breast pockets with flap closures, two large hip pockets with full flap closures, a 9″ radio pocket, roomy raglan style sleeves, a turnout style collar with self-storing throat strap, fully-concealed nickel snap front closures, and adjustable hook and loop cuff closures. An optional button-in liner provides additional warmth and protection. Yellow shell and silver reflective trim.

	Small, 34-36	Medium, 38-40	Large, 42-44	X-Large, 46-48	XX-Large, 50-52	XXX-Large, 54-56	Weight	Each
Brush Coats	23750	23751	23752	23753			2 lbs.	$261.50
					23754		2 lbs.	$286.75
						23755	2 lbs.	$292.95

Have a large order? Call our Bid and Contract Department at 800-752-8461 for a quote on larger quantities.

CREW BOSS™
ALWAYS MADE IN THE USA

Crew Boss™ Tecasafe® Plus Button-In Liner for Crew Boss™ Brush Coats

2107

Line your Crew Boss brush coat during cold weather conditions. Tecasafe liner reflects body heat for warmth while deflecting radiant heat from external sources.

Small, 34 - 36 Chest 14 oz.	23847	$70.75
Medium, 38 - 40 Chest 15 oz.	23848	$70.75
Large, 42 - 44 Chest 1 lb.	23849	$70.75
X-Large, 46 - 48 Chest 1 lb.	23850	$70.75
XX-Large, 50 - 52 Chest 2 lbs.	23851	$77.75
XXX-Large, 54 - 56 Chest 1 lb.	23852	$81.25

Coaxsher™ CX Wildland Vent Brush Shirt

7410

Designed with ultimate comfort in mind, this shirt's Xvent™ system allows body heat to escape easily through vent openings while letting in cooler air. The vent openings are backed with a lightweight aramid material to ensure protection, and each opening features a Nomex® YKK® zipper for convenient opening and closing. Constructed of Tecasafe™ Plus 700 material, the shirt also features specially designed shoulder pockets where fire-retardant padding (sold separately) can be inserted for even greater comfort when carrying heavy packs. Back shoulder gussets allow for maximum maneuverability. The shirt features Nomex® Craq-spun thread, YKK® Nomex® zipper pulls and tape, melamine buttons, Mil-Spec Velcro, and single-needle tailoring. UL® certified to NFPA 1977-2005 specifications. Manufacturer's lifetime warranty.

Manufacturer's Warranty Lifetime

Shoulder Padding for CX Wildland Vent Brush Shirt	2 oz.	23815	$19.95

S 38″ to 40″	M 40″ to 44″	L 44″ to 48″	X-L 48″ to 52″	XX-L 52″ to 56″	Weight	Each
23810	23811	23812	23813		2 lbs.	$167.25
				23814	2 lbs.	$177.25

Coaxsher™ Vented Wildland Brush Pants – Nomex IIIA

7668

The cut and fit of the new CX Wildland Vent Brush Pants are second to none and totally change Wildland PPE. With excellent fit, leg venting, knee articulation, and seamless crotch (less chafing!), these wildland fire pants keep you protected and comfortable all day long. Carefully thought out design patterns and articulated seams allow these wildland fire pants to move with you not against you. Other features include double reinforcement in high-stress areas to take the abuse, super tough, black oxidized YKK fly zipper assures a long life, and a double closure system with Mil-Spec Velcro® and melamine button makes a solid closure system which gives redundancy and reliability in the field. Backed by a 100% Guarantee from the manufacturer. Designed and built to NFPA 1977-2011 specifications.

Color	Inseam	Small 27″-30″	Medium 31″-34″	Large 35″-38″	XLarge 39″-42″	XXLarge 43″-46″	Weight	Each
Spruce Green	30″	23561	23564	23567	23816		2 lbs.	$270.75
						23819	2 lbs.	$276.50
	32″	23562	23565	23668	23817		2 lbs.	$270.75
						23820	2 lbs.	$276.50
	34″	23563	23566	23569	23818		2 lbs.	$270.75
						23821	2 lbs.	$276.50

Wildland Firefighter Suspenders

2364

These heavy-duty suspenders have "Wildland Fire Fighter" woven into them. The "H" Back style keeps them from falling down on your arms while working and the elastic at the ends allows for freedom of movement. Metal alligator clips fit all wildland gear.

Wildland Firefighter Suspenders 9 oz.	24850	$34.25
	3+	$31.50

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FireLine™ 7 oz. Indura® Ultra Soft Shirt Jacket

3807

Made of 7 oz. Indura Ultra Soft Cotton that is soft to your skin and comfortable to wear. Economical Ultra Soft Indura offers guaranteed flame resistance and 50% extended garment wear life. Other features include single-needle patch style breast pockets with hook/loop flap closures, generously cut set-in sleeves with adjustable hook/loop closure at cuffs, extra large melamine buttons on the front, and a self-fabric hanger loop at the neck. UL Classified to meet or exceed the NFPA 1977 Standard on Protective Clothing and Equipment for Wildland Fire Fighting (current edition). They also meet requirements for Cal-OSHA Title 8 GISO Sections 3406(c)(1) and/or 3410(d)(1). Yellow.

FireLine™ Firefighting Coat

8243

Protecting your entire neck and face is a 4″ high Alpine style collar with front zipper extended closure. The fabric storm flap covers zipper and secures with intermittent hook/loop tabs. Articulated radial design sleeves eliminate shoulder seams and contour to fit the natural bend of the elbow. Gusseted sleeve cuff has adjustable hook/loop tabs and elastic closure. Features two large expandable cargo hip pockets, built-in hand warmer compartments, a radio pocket and microphone holder loop set above the pocket flap, and a cell phone pocket. Flame-resistant Scotchlite™ 2″ reflective trim around arms, across shoulders and along bottom. UL Classified to meet or exceed the NFPA 1977 Standard on Protective Clothing and Equipment for Wildland Fire Fighting (current edition). They also meet requirements for Cal-OSHA Title 8 GISO Sections 3406(c)(1) and/or 3410(d)(1). Choose from 9 oz. Indura® Cotton or 6 oz. Nomex® IIIA fabrics. Yellow.

Style	Fabric	Weight	Chest Sm: 34″-36″	Chest Md: 38″-40″	Chest Lrg: 42″-44″	Chest X-Lrg: 46″-48″	Each	3+
Shirt Jacket	7 oz. Indura®	1 lb.	23627	23628	23629	23630	$82.25	$78.25
Coat with Reflective Trim	9 oz. Indura®	2 lbs.	23791	23792	23793	23794	$182.50	$169.95
	6 oz. Nomex® IIIA	2 lbs.	23795	23796	23797	23798	$213.95	$202.95

FireLine™ Overpants with Reflective Trim

8244

Generously tailored to be worn over regular pants or by themselves. Adjustable waistband with black carbon steel ladder buckle, seven 2″ belt loops and Zytel FR50 Delrin zipper on Nomex® zipper tape. Extra-deep contoured front angled bag pockets with hook/loop closure flaps. Side seam pass-through trouser access with Zytel FR50 Delrin zippers on Nomex zipper tape. Two hook/loop tabbed and flapped 9 x 9 x 1-1/2″ cargo pockets located at mid-thigh, and two rear welt-style pockets with hook/loop tabbed flaps. Articulated leg panel with contoured knee allows full range of movement. Gusseted leg with multiple cuff closure—hook/loop, Zytel FR50 Delrin zipper on Nomex zipper tape, and elastic. Flame-resistant Scotchlite™ 2″ reflective trim around calves. UL Classified to meet or exceed the NFPA 1977 Standard on Protective Clothing and Equipment for Wildland Fire Fighting (current edition). Meets Cal-OSHA Title 8 GISO Sections 3406(c)(1) and/or 3410(d)(1) requirements. Custom inseam lengths available. Call 800-647-5368 for details.

FireLine™ Advance™ Fabric Firefighting Overpants

4541

With a combination of 60% Kevlar® and 40% Nomex® IIIA, the Advance fabric overpants offer cut and tear protection in addition to excellent flame resistance. UL Classified to meet or exceed the NFPA 1977 Standard on Protective Clothing and Equipment for Wildland Fire Fighting (Current Edition). Meets CAL-OSHA Title 8 GISO Sections 3406(c)(1) and/or 3410(d)(1)requirements. Custom inseam lengths available. Call 800-647-5368 for details.

	Fabric	Inseam	Weight	Waist Sm: 27″-30″	Waist Md: 31″-34″	Waist Lrg: 35″-38″	Waist X-Lrg: 39″-42″	Each	3+
Overpants with Reflective Trim	9 oz. Indura®	30″	2 lbs.	23637	23638	23639	23640	$185.95	$175.50
		New! 32″	2 lbs.	23865	23866	23867	23868	$185.95	$175.50
		New! 34″	2 lbs.	23869	23870	23871	23872	$185.95	$175.50
	6 oz. Nomex® IIIA	30″	2 lbs.	23803	23804	23805	23806	$213.50	$201.95
		New! 32″	1 lb.	23873	23874	23875	23876	$213.50	$201.95
		New! 34″	1 lb.	23877	23878	23879	23880	$213.50	$201.95
Advance Fabric Overpants	7 oz. Advance	30″	2 lbs.	23762	23763	23764	23765	$275.25	$259.25
		New! 32″	2 lbs.	23881	23882	23883	23884	$275.25	$259.25
		New! 34″	2 lbs.	23885	23886	23887	23888	$275.25	$259.25

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CREW BOSS™
ALWAYS MADE IN THE USA

Crew Boss™ 6.0 oz. Nomex® IIIA Jumpsuits

8161, 7949

Constructed and designed with the same quality you've come to expect from the Crew Boss line of fire clothing. Features include Nomex® thread throughout; a radio pocket on left breast and spade pocket on right, with full flap closures; two rear spade pockets with full flap closures; extra large slash pockets with pass-through feature; hook and loop closures at wrists for a tight fit at gloves; adjustable double-back hook and loop closures for a tight fit at the boots; 2″ elastic back band with 4″ side take-ups; and all stress points are bartacked. ISO 9001 registered and certified by Underwriters Laboratories, Inc.®

Crew Boss™ Tecasafe™ Jumpsuit

Constructed and designed with the same quality as our complete Wildland line, the CrewBoss Tecasafe Plus Standard Jumpsuit provides comfort and protection from head to toe. With an array of functional features, this jumpsuit will make life on the fire line a bit easier. **Features include:** Nomex thread throughout; a radio pocket on left breast and spade pocket on right, with full flap closures; two rear spade pockets with full flap closures; extra large slash pockets with pass-through feature; hook and loop closures at wrists for a tight fit at gloves; double back D-ring, hook and loop closure at boots; 2″ elastic back band with 4″ side take-ups; and zippered leg openings for ease of doffing and donning.

FIRELINE

FireLine™ 9 oz. Indura® Ultra Soft Cotton or 6 oz. Nomex® IIIA One-Piece Jumpsuits

3810

UL® classified to meet or exceed NFPA* protective clothing requirements for Wildland Fire Fighting and CAL-OSHA** requirements for protective clothing. Features include a 4″ Alpine style collar with front zipper extended closure, encased with an internal and external flap. Zippers are Zytel FR50 Delrin zippers mounted on Nomex zipper tape. Articulated, radial designed sleeves eliminate shoulder seams and contour to fit the natural bend of the elbow. Self-material waistband has elastic at center back and take-up straps on each side with an adjustable ladder buckle to allow a 4″ waist adjustment for a comfortable fit. Contoured deep front pockets' special pass-through design allows access to trousers. The breast (radio), rear, and mid-thigh pockets offer extra storage and have hook/loop closures. Contoured knees allow for full range of movement. Gusseted leg has multiple cuff closure system comprised of 14″ leg zippers mounted on Nomex tape, elastic and hook/loop adjustable tabs.

*NFPA 1977 standard on Protective Clothing and Equipment for Wildland Fire Fighting (Current Edition).

**CAL-OSHA Title 8 GISO Sections 3406(c)(1) and/or 3410(d)(1).

		Small, 34″ - 36″ Chest	Medium, 38″ - 40″ Chest	Large, 42″ - 44″ Chest	X-Large, 46″ - 48″ Chest	Weight	Each	3+
Crew Boss™ Jumpsuits	6.0 oz. Nomex® IIIA	23480	23481	23482	23483	2 lbs.	$381.95	$345.25
	Tecasafe™	23830	23831	23832	23833	3 lbs.	$255.25	$241.75
FireLine One-Piece Jumpsuits	9 oz. Indura Ultra Soft Cotton	23766	23767			4 lbs.	$299.95	$282.50
				23768	23769	4 lbs.	$299.95	$282.50
	6 oz. Nomex IIIA	23787	23788	23789	23790	2 lbs.	$347.50	$329.50

Citro PPE Soak and Wash Gear Cleaner

4351

Keeps your gear clean, free of toxins and ready for service!

Used for cleaning turnout gear and lifelines, this specially formulated cleaner removes dangerous carcinogenic hydrocarbon, grease, soot and smoke. Citro PPE eliminates the negative effects of embedded "soil" and prolongs the garment life for as long as up to 14 months. Meets NFPA 1851 Standards.

1 Gallon 9 lbs.	17117	$40.75
	4+	$36.75
5 Gallon 45 lbs.	17118	$152.75

Sight-Grid Signal Mirror

3629

Visible for miles, even on hazy days.

A built-in "sight-grid" lets you aim reflected sunlight exactly where you want it. Catch the eye of field personnel or searching aircraft, ships or ground parties. Surveyors – set up and locate EDM and other instruments. Foresters – visual reference of field personnel. Safety – include in field first aid kits. Thick laminated plate glass, 3″ x 5″ x 1/4″.

Sight-Grid Signal Mirror 5 oz.	84999	$12.75
	10+	$9.95

Headlamps pages 696 thru 700

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Packs
pages 134 thru 137

True North® DragonWear™ Alpha™ Jacket
4359

Specifically designed to meet the performance and protection needs of firefighters, law enforcement officers, industrial workers, and military personnel. DragonWear™ provides lightweight, breathable, water-repellent warmth that's fire resistant. The permanent protection will not melt, drip, or support combustion in the air and it cannot be washed out or worn away. Features a large zip chest pocket, two zippered hand warmer pockets, two large inside cargo pockets, full-length zip front with stand-up collar, drop-tail rear hem for increased coverage, stuff sack for high compressible packing, and breathable quick-drying warmth. Made of fire-resistant Nomex IIIA Fleece with Nomex woven pocketing, YKK Nomex Zipper, and Nomex thread. Made in USA.

True North® DragonWear™ Exxtreme™ Jacket
4359

Designed to withstand rugged, demanding conditions, this jacket features Rip-Stop Nomex® reinforcement patches on the forearm and shoulder areas for extra wear resistance. Perfect for firefighters, law enforcement officers, industrial workers, and military personnel, the jacket provides fire-resistant protection that does not wash out or wear away and also will not melt, drip, or support combustion in the air. In addition, the lightweight, breathable jacket is water-repellent and wind-resistant. Zippers in the armpit area offer increased ventilation. Features a large zip chest pocket, two zippered hand warmer pockets, two large inside cargo pockets, a full-length zip front with stand-up collar, and a drop-tail rear hem for increased coverage. Made of fire-resistant Nomex IIIA Fleece with Nomex woven pocketing, YKK Nomex Zipper, and Nomex thread. Made in USA. **Color:** Black.

Jacket	Color	Small	Medium	Large	X-Large	XX-Large	XXX-Large	Weight	Each
DragonWear Alpha	Navy	24121	24122	24123	24124			2 lbs.	$256.95
						24125		2 lbs.	$266.95
							24126	2 lbs.	$276.95
	Black	24050	24051	24052	24053			2 lbs.	$256.95
						24054		2 lbs.	$266.95
							24055	2 lbs.	$276.95
DragonWear Exxtreme	Black	24058	24059	24060	24061			2 lbs.	$285.95
						24062		2 lbs.	$295.95
							24063	2 lbs.	$305.95

True North® DragonWear™ Double-Shot™ Hat
2983

This snug-fitting, fire-resistant, water-repellent hat features a contoured band that wraps around the ears and back of the head for added warmth. Single-layer fleece construction on top of hat. Double-layer fleece construction on sides over ears. Constructed of Nomex® IIIA fabric. Made in USA. **Color:** Black.

True North DragonWear Double-Shot Hat 2 oz.	**24057**	**$28.25**

True North® DragonWear™ Big-Chill™ Beanie
2983

Fire-resistant and water-repellent, this lightweight beanie can be worn under a helmet or by itself. Features single-layer Nomex® IIIA fleece construction and flat-stitching with Nomex thread. Made in USA. **Color:** Black.

True North DragonWear Big-Chill Beanie 1 oz.	**24056**	**$21.50**

True North® DragonWear™ Power Dry® Shirt
2984

Made in USA

This shirt combines a cutting-edge design with inherent flame-resistant protection. The patented, moisture-wicking Polartec® Power Dry® fabric is highly breathable, dries quickly to keep you cool, and offers odor resistance. Smart Zone™ panel construction and flat-lock seams ensure excellent mobility. NFPA 70E HRC 1 Protection, Arc Rating 5.0 cal/cm². Made in USA. **Color:** Navy.

Small	Medium	Large	X-Large	XX-Large	XXX-Large	Weight	Each
24070	24071	24072	24073			1 lb.	$43.95
				24074		1 lb.	$48.95
					24075	1 lb.	$53.95

Job-Specific Printed Vinyl Roll Flagging
1139

Each roll of flagging is 2-mils thick x 1-1/2″ wide x 150′ long. Different flagging types cannot be combined for price breaks.

"ESCAPE ROUTE" Vinyl Roll Flagging
Use to mark escape routes. Repeats "ESCAPE ROUTE" message in all caps throughout the entire roll.

"ESCAPE ROUTE" – Pink Glo 6 oz.	**57965**	**$2.95**
	9+	**$2.30**
	108+	**$2.00**

"KILLER TREE" Vinyl Roll Flagging
Alerts others to the presence of a dangerous tree or dangerous stand of trees. Repeats skull-and-cross-bones with "KILLER TREE" message in all caps throughout the entire roll.

"KILLER TREE" – Orange Glo 7 oz.	**57967**	**$2.95**
	9+	**$2.30**
	108+	**$2.00**

"SPOT FIRE" Vinyl Roll Flagging
Identifies spot fire. Repeats "SPOT FIRE" message in all caps throughout the entire roll.

"SPOT FIRE" – Orange Glo 6 oz.	**57955**	**$2.95**
	9+	**$2.30**
	108+	**$2.00**

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Made in USA

White's Boots® Hathorn Smoke Jumper Boots
2807

These hand-crafted boots feature all-leather construction, and the deep Vibram® lug outsoles ensure superior traction in even the most rugged conditions. The 10˝H boots also provide firm ankle support. Other features include a black, premium full-grain, oil-tanned upper and a standard Smoke Jumper toe. The boots are stitched with Technora® no-burn thread that is highly resistant to heat and chemicals. Choose from D (medium) or EE (wide) widths. Meets the requirements of NFPA 1977-2005 31DR Protective Clothing and Equipment for Wildland Fire Fighting. Made in USA.

Made in USA

White's Boots® Original Smoke Jumper Boots
2867

The original Smoke Jumper that set the standard in the forest industry! These legendary, handmade 10˝H boots are constructed of premium full-grain, oil-tanned, water-resistant leather and feature tough Vibram® lug soles. Four rows of lock stitching on the uppers ensure durability, and the Technora® no-burn thread is highly resistant to both heat and chemicals. The patented Arch Ease™ design duplicates the natural contour of your foot to provide the ultimate in all-day comfort. Lace-in tongue guard and laces included. Choose from D (medium) or EE (wide) widths. Meets the requirements of NFPA 1977-2005 31DR Protective Clothing and Equipment for Wildland Fire Fighting. Made in USA.

Boots	Width	Size 7	Size 7.5	Size 8	Size 8.5	Size 9	Size 9.5	Size 10	Size 10.5	Size 11	Size 11.5	Size 12	Size 12.5	Size 13	Weight	Pair
Hathorn Smoke Jumper	D	22503	22504	22505	22506	22507	22508	22509	22510	22511	22512	22513	22514	22515	7 lbs.	$315.00
	EE	22516	22517	22518	22519	22520	22521	22522	22523	22524	22525	22555	22526	22527	7 lbs.	$315.00
Original Smoke Jumper	D	22528	22529	22530	22531	22532	22533	22534	22535	22536	22537	22538	22539	22540	6 lbs.	$417.00
	EE	22541	22542	22543	22544	22545	22546	22547	22548	22549	22550	22551	22552	22553	6 lbs.	$417.00

White's Boots® Leather Boot Preservative
2808

This 100% natural, all-season boot preservative contains a long-lasting beeswax/propolis suspension with anti-bacterial properties. The formulation effectively preserves leather and protects against moisture, mildew, bacteria, and salt. Will not soften leather or rot stitching. Made in USA.

White's Boots Leather Boot Preservative	9 oz.	22502	$13.50

White's Boots® Hathorn Explorer Wildland Boots
7195

Hard working boots at a great value. Features include imported 5.5-6.5 oz. leather, 9 iron leather insoles, 9 iron Vibram rubber midsole, Vibram® sole, leather shank, leather heel base, and nylon laces. UL Classified. Available in Lace-to-Toe or Plain Toe.

Plain Toe NFPA Boots

Meets the requirements of NFPA 1977-2005 31DR Protective Clothing and Equipment for Wildland Fire Fighting.

Lace-to-Toe Boots

Meets the requirements of NFPA 1977-2005 31DR Protective Clothing and Equipment for Wildland Fire Fighting. Brown Lace-to-Toe boots are not NFPA approved.

Made in USA

NFPA Boots	Color	Size 7	7.5	8	8.5	9	9.5	10	10.5	11	11.5	12	12.5	13	Weight	$
Plain Toe	Black	23121	23123	23124	23125	23128	23129	23130	23131	23132	23133	23134	23135	23136	7 lbs.	$220.00
Lace-to-Toe	Black	23146	23147	23148	23149	23150	23151	23154	23155	23162	23163	23164	23189	23190	7 lbs.	$220.00
	Brown	23191	23192	23193	23194	23195	23196	23197	23198	23200	23201	23202	23203	23204	7 lbs.	$220.00

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Water Cooling Bandanna
3448

Relief from the heat!

This 36″ long bandanna is designed for wear around your forehead or neck or underneath clothing or hat to reduce heat fatigue. Simply soak the bandanna in cool, clean water 5 to 10 minutes for 8 to 10 hours of relief. The gel-filled bandanna only swells to 1/2″ thick when hydrated. May be hand washed in soap and water. Colors may vary. One size fits all.

Water Cooling Bandanna 1 oz.		24855	$3.50
		10+	$2.80
		20+	$2.10

Water Cooling Vest
3471

Reduce heat fatigue and increase productivity.

Simply soak vest in cool, clean water for five to 10 minutes and enjoy eight to 10 hours of relief. Adjust side clips for snug fit. May be worn under protective clothing. Gel-filled vest only weighs five pounds when hydrated. Durable construction and lightweight cloth assure maximum evaporative cooling comfort. May be handwashed in soap and water. Orange. One size fits all.

Water Cooling Vest 7 oz.		24857	$25.25
		5+	$23.25

Thorogood® 10″ Structural/ Wildland/T.R.I. Fire Boots
8396

Made in USA

Waterprooof, flame- and cut-resistant leather upper with scuff resistant Vibram® toe cap. Other features include Goodyear Storm Welt construction, Thorogood's exclusive Vibram® fire sole, a rubber midsole with steel triple ladder shank, a polyurethane removable insert insole on flexible double rubber, and a Comfort Weave/ Sympatex® waterproof barrier lining that is blood borne pathogen compliant. Meets the Footwear Requirements of NFPA 1977, 2011 edition, for Wildland Protective Footwear and NFPA 2013, 2007 edition, Standard on Protective Ensembles for Technical Rescue Incidents. ASTM F 2413-05 M/I/75/C/75 Steel Toe. Electrical Hazard. Stainless Steel Puncture-Resisting bottom plate. Made in USA by ISO 9001 Certified Shoe Company.

Thorogood® 10″ Wildland Fire Boots
3657

Made in USA

Feature Kevlar® Thread and Lace

Meet NFPA 1977 Current Edition requirements for protective clothing and equipment for wildland fire fighting and are UL classified. 10″ Black Boulder flame- and cut-resisting leather uppers feature Kevlar® thread and lace, leather storm welt, removable kiltie and solid brass stud hooks. The Vibram® rugged outdoor and heavy-duty logger outsoles are oil-, heat- and slip resistant and feature a 3 ribbed steel ladder shank for arch support and the rubber and leather midsoles provide additional foot stability. Felt footbed insoles are removable. Made in the USA.

Boots	Size 7	Size 8	Size 9	Size 10	Size 11	Size 12	Size 13	Weight	$
10″ Structural/Wildland/ T.R.I. Fire Boots	22709	22710	22711	22712	22713			7 lbs.	$313.00
						22714	22715	8 lbs.	$313.00
10″ Wildland Fire Boots	22903	22904	22905	22906	22907			6 lbs.	$255.00
						22908	22909	7 lbs.	$255.00

O'Keeffe's® Working Hands®
4619

Effectively hydrates even the driest skin!

Made in USA

With a unique formulation of moisturizing ingredients, this soothing cream relieves severely dry, cracked, split skin. A high concentration of glycerin draws in and retains moisture, resulting in healthy, smooth skin. Non-greasy and odorless. Made in USA. 3.4 oz. Jar.

3.4 oz. Jar	5 oz.	33290	$8.95

O'Keeffe's® for Healthy Feet
4618

Provides powerful relief for dry, cracked skin on the feet and heels!

Made in USA

This glycerin-based formula draws in and retains moisture to promote the healing of dry, cracked, split skin. A higher concentration of Allantoin allows for better absorption of moisture through the tough, thick skin of the feet and heels. Non-greasy and odorless. Made in USA. 3.2 oz. Jar.

3.2 oz. Jar	4 oz.	33289	$8.95
		3+	$8.40

ANSI Class 2 Public Safety Vests
7200

Meets the new ANSI/ISEA 207-2006: American National Standard for High-Visibility Public Safety Vests. The break-away design prevents entanglement. Other features include easy on/off with hook and loop front closure, fully adjustable sides, mic tab, clear badge chest pocket with closure, and a radio chest pocket with flap closure. Made with ANSI tricot fabric and 3M™ Scotchlite™ reflective tape.

Fire, Medium/Large	8 oz.	24648	$25.95
		10+	$23.95
		20+	$22.95
Fire, XL/XXL	8 oz.	24650	$27.75
		10+	$25.75
		20+	$23.75

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1 New! Womanswork® NFPA Approved Wildland Firefighter Gloves
4928

This washable, brushed pigskin leather glove resists flames, heat, cuts, and punctures even after repeatedly getting wet. The cuff extends beyond the wrist crease for extra flame and heat protection. Sewn with Kevlar for outstanding seam strength. Certified to NFPA 1977 Standard on Protective Work Clothing and Equipment for Wildland Firefighting, 2011 Edition. Made in USA.

Small	5 oz.	**91603**	**$43.95**
Medium	5 oz.	**91604**	**$43.95**
Large	6 oz.	**91605**	**$43.95**

2 NFPA Wildland Firefighting Gloves
4818

Made in USA

Eversoft® cowhide leather on the palm and back resists flames, heat, cuts, and punctures. In addition, the leather stays soft even after repeatedly being wet. The combination of an elasticized back and a 4˝L knit Kevlar wristlet ensures a close fit to prevent embers or sharp debris from entering the glove. The cuff extends beyond the wrist crease for extra flame and heat protection. Welts sewn into the middle and ring fingers and the thumb offer added seam strength. Gloves meet NFPA 1977 Standard on Protective Work Clothing and Equipment for Wildland Firefighting, 2011 Edition. Made in USA.

Medium	Large	X-Large	Weight	Pair	10+
91015	**91016**	**91017**	8 oz.	**$42.50**	**$39.95**

WELLS LAMONT
Industrial

3 Wells Lamont® Top Grain Pigskin Gloves
3492

These top grain pigskin gloves are specially tanned to remain flexible after being exposed to moisture. Feature hidden gunn cut seams, easy slip-on double shirred cuffs, and keystone thumb for more comfortable fit.

Medium	Large	X-Large	Weight	Pair	12+
90909	**90910**		4 oz.	**$8.70**	**$7.35**
		90936	4 oz.	**$9.30**	**$7.85**

ESS

4 ESS Striketeam™ XTO Goggle
6556

Peel away Tear-Off for clear vision immediately!

Ideal for wildland firefighting and technical rescue, this goggle's thick Polycarbonate lens is hard coated and anti-fog treated inside and out. Easy clean closed cell facefoam and full filtered ventilation. Flame resistant Velcro® tabbed elastic strap. Fits over most eye glasses. Includes pack of two Tear-Offs (thin, reusable films which instantly provide clear vision when peeled away from lens). Exceeds ANSI Z-87.1 and CSA Z94.3-92 standards. Lenses meet 0.22 caliber military ballistic impact test MIL-V-43511C.

ESS Striketeam XTO Goggle	7 oz.	**23088**	**$37.80**
Replacement Tear-Offs (Pack of 6)	1 oz.	**23089**	**$6.30**

5 ESS FirePro FS Goggle
7296

Low-profile goggles optimized for wildland firefighting and designed for maximum peripheral vision and minimal interference with helmets. Features a rapid strap adjustment system; a full-perimeter ventilation and filtration system; durable, anti-microbial face padding; extra-thick, 2.8mm ballistic polycarbonate lenses with 100% UVA/UVB protection and anti-scratch protection on the outside of the lens plus fog resistance on the inside. Full wrap-around strap with Velcro®. Compliant with wildland fire equipment performance requirements, including NFPA 1977 Standard on Protective Clothing and Equipment for Wildland Fire Fighting (2011 Edition), NFPA 350°F for 5-minute oven test, ANSI Z87.1+, and US Federal OSHA.

FirePro FS Goggle	5 oz.	**23032**	**$42.75**

ELVEX

6 Elvex® Xenon Safety Glasses
4350

These lightweight safety glasses are both stylish and comfortable! Features include hard coated polycarbonate lens, a soft rubber nose bridge and colorful rubber inserts on the temples. Tested to ANSI Z87.1 (Z87+).

Clear Lens	1 oz.	**23276**	**$2.65**
		12+	**$2.35**
		24+	**$2.15**
Indoor/Outdoor Lens	1 oz.	**23277**	**$3.45**
		12+	**$3.15**
		24+	**$2.85**
Gray Lens	1 oz.	**23278**	**$2.95**
		12+	**$2.65**
		24+	**$2.45**

More Safety Glasses page 598

7 Elvex® Trix Safety Glasses
2055

The style you want at a price you can afford! All lenses provide 99% UV protection and the temples are universal length. These glasses comply with ANSI Z87.1 requirements. Choose from clear or gray lenses.

Gray Lens	Clear Lens	Weight	Each	10+	20+	50+
23288		1 oz.	**$3.20**	**$2.90**	**$2.60**	**$2.45**
	23287	1 oz.	**$2.95**	**$2.75**	**$2.45**	**$2.15**

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Hot Shield® HS-2 Wildland Face Protector*†

6560

Extremely heat-resistant facial and respiratory protection garment provides protection from sparks and embers.

Made of CarbonX® materials which withstand up to 2,600°F, this mask protects the face from burns and helps reduce the inhalation of smoke and ash particulate. A disposable particle mask inserted into the shield's filter pocket helps trap finer particles which pass through the first barrier.

Hot Shield HS-2 Wildland Face Protector	8 oz.	**23674**	**$87.95**
		4+	**$80.00**
Disposable Particle Mask	1 oz.	**23675**	**$3.90**
		10+	**$3.45**

The Ultimate Bandanna™ UB-V2*†

6564

Nearly completely fireproof, comfortable, and easy to breathe through.

Ideal for wildland firefighters, this bandanna is made of CarbonX® fabric which has a heat resistance up to 2,600°F. The lightweight bandanna requires no filter insert and reduces the inhalation of large airborne ash and smoke particulate. The bandanna does not reduce vapors. Velcro® fasteners allow for quick donning. To clean, simply rinse in water and place in dryer on high heat. Top measures 23″.

The Ultimate Bandanna UB-V2	5 oz.	**23678**	**$71.75**
		5+	**$69.25**
		10+	**$65.25**

Ultra Shroud™ Ear and Neck Protector*†

6562

Exceeds OSHA and NFPA flame protection requirements by over 700%!

Designed to be used in conjunction with the Hot Shield®. Using multiple layers and superior fire-resistant materials, this shroud allows substantially less heat penetration than traditional shrouds do. Constructed of CarbonX® fabric with a heat resistance of up to 2,600°F. Can be kept out of the way until needed and easily applied in seconds. Does not interfere with air exchange when used alone or with Hot Shield®.

Ultra Shroud Ear and Neck Protector	8 oz.	**23677**	**$63.95**
		5+	**$61.75**
		10+	**$59.50**

Anti-Pollution Mask*†

1530

Combines thermal insulation with inhalation protection.

The Dynamic Activated Charcoal Cloth filter of this mask works by absorption and chemisorption of organic vapors, acid gases, particulate material and irritant dusts. Two valves release unwanted heat, carbon dioxide, and water vapor. Made from hypoallergenic neoprene.

Anti-Pollution Mask	4 oz.	**23670**	**$37.95**
		5+	**$35.25**
Replacement Dynamic ACC Filters, pack of 2	1 oz.	**23672**	**$22.75**
		5+	**$19.50**

Fire Brigade Mask*†

7004

Protects firefighters from dust contamination by filtering invisible sub-micron size particulates.

Made of flame-retardant Neoprene, the mask has holes which allow air to pass through freely. An adjustable nose clip on the top of the mask permits a tight seal on the face. The replaceable filter has two exhalation valves which attach easily to the mask shell.

Fire Brigade Mask	3 oz.	**23770**	**$59.50**
		6+	**$54.95**
Replacement Filter	1 oz.	**23772**	**$19.95**
		6+	**$16.95**

Bandit Scarf†

1529

Better than a plain bandanna, this scarf filters particulates.

Incorporates a filter material (Dynamic Activated Charcoal Cloth™) which is strategically placed over the breathing area and laminated between two layers of 100% cotton. No replacement filters needed. Fully washable. Includes a nose clip to seal scarf around face and bootlace tie to seal underneath chin. Offers protection from petrol fumes, diesel fumes, low level ozone, acid gases, lead oxide, and irritant dusts. **Lifespan:** approximately 6 to 8 months.

Bandit Scarf	3 oz.	**23671**	**$33.95**
		6+	**$31.75**
		12+	**$29.95**

***WARNING!** These products are not intended to replace a Self-Contained Breathing Apparatus. They are not meant for use in enclosed or confined spaces. The products do not supply oxygen or filter out carbon monoxide (CO). They are not designed to filter silica, asbestos, or spray paint operations. Please follow all instructions provided with the products.

†**Note:** This mask does not provide heat or flame protection, nor does it provide complete respiratory protection from all gases or particulates. This mask is not intended to replace a Self-Contained Breathing Apparatus. It is not meant for use in enclosed or confined spaces. The mask does not supply oxygen or filter out carbon monoxide (CO). The mask is not designed to filter silica, asbestos, or spray paint operations. Please follow all instructions provided with the products.

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Cobra™ Classic Carbon Shield Hood*†

3814

Engineered to maximize protection!

Only state-of-the-art flame-resistant fabrics are used, assuring permanent flame and heat protection even after years of use and repeated laundering. Longer front and back drape design makes sure the hood stays tucked in even during the most strenuous activity. Other features include flat stitching and seamless chin area for better fit and comfort, 1/2″W elastic face opening which stretches to a full 17″ for easy donning and a snug fit, and bottom edge is bound with self-fabric bias binding. All Cobra hoods are UL classified to meet or exceed the NFPA 1971 Standard on Protective Ensemble for Structural Fire Fighting Current Edition.

Cobra Classic Carbon Shield Hood	4 oz.	**23801**	**$33.50**
		6+	**$31.95**

Whiffs Manta X30

8695

The Manta X 30 is easy to use just like a bandana. Made of Carbon X® material and Kevlar® elastic with Nomex thread, it is stretchable which makes it easy to pull down and up when needed. Requires Xcaper Professional Filter (23663, sold separately) to assemble a complete unit.

Whiffs Manta X 30	5 oz.	**23662**	**$65.95**

Xcaper Professional Filter

8694

Traps particulate matter and absorbs hazardous gases common to smoke in wildland fires, structural fires, overhaul, arson investigation and various SWAT situations. The cloth of the filter passes the California E117 burn test. Lab tests indicate that it will trap anhydrite water-soluble gases such as Hydrogen Cyanide, Carbon Monoxide and Acrolein. Lasts 8 to 12 hours in a wildland situation.

Xcaper Professional Filter	2 oz.	**23663**	**$7.60**
		10+	**$7.25**

Whiffs Brush Pro Mask*†

8694

The sleek design makes it comfortable to wear, even in hot climates. Made of Advance Nomex®, with a 1050° heat rating. The breathing port of the mask is made of Nomex knitted hood material which also carries a 1050° heat rating. Lined with blue Indura® Ultra Soft® cloth with a hydro lone finish to help wick moisture from the firefighter's face and prevents the transfer of radiant heat to the skin. The black Velcro® attachment point at the bridge of the nose on the outside is used for attaching to goggles. The other three Velcro attachment points are used for attaching the optional neck shroud. Machine washable in cold water, hang to dry. **Requires Xcaper Professional Filter (sold separately)** to assemble a complete unit.

Whiffs Brush Pro Mask	2 oz.	**23660**	**$58.25**
Xcaper Professional Filter	2 oz.	**23663**	**$7.60**
		10+	**$7.25**

Carbon Shield Bandana*†

3813

Protects your face and neck from flying embers!

Made of Carbon Shield fabric which will not burn and provides added protection and comfort on the fireline. Extremely easy to breathe through, Carbon Shield has the ability to absorb and neutralize unpleasant odors, a considerable advantage when opportunities for washing are limited. Will not fade or weaken when exposed to UV rays.

Carbon Shield Bandana	3 oz.	**23800**	**$27.75**
		10+	**$25.25**

Bandanas

7359

A versatile item to have handy whether working on fire lines, in construction, or any other outdoor profession. 22″.

Navy Blue	Olive Drab	Red	Weight	Each	10+
24503	**24504**	**24505**	1 oz.	**$4.10**	**$3.70**

Sundström SR 100 Wildland First Responder Kit

2904

Non-allergenic and FDA approved!

Intended for use in first responder settings when maximum protection is required against all types of particles, sparks and ash particulates. The Wildland First Responder Kit comes complete with 1 SR 100 Silicone respirator, 1 P100 particulate filter, 10 pre-filters, 1 pre-filter holder, 1 Spark arrester, 1 user seal check disk, 1 ID label, and 1 storage box.

Small/Medium	15 oz.	**23375**	**$54.95**
Medium/Large	1 lb.	**23376**	**$54.95**
SR 336 Spark Protection	1 oz.	**23384**	**$5.10**

***WARNING!** These products are not intended to replace a Self-Contained Breathing Apparatus. They are not meant for use in enclosed or confined spaces. The products do not supply oxygen or filter out carbon monoxide (CO). They are not designed to filter silica, asbestos, or spray paint operations. Please follow all instructions provided with the products.

†**Note:** This mask does not provide heat or flame protection, nor does it provide complete respiratory protection from all gases or particulates. This mask is not intended to replace a Self-Contained Breathing Apparatus. It is not meant for use in enclosed or confined spaces. The mask does not supply oxygen or filter out carbon monoxide (CO). The mask is not designed to filter silica, asbestos, or spray paint operations. Please follow all instructions provided with the products.

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Bullard® Wildland Fire Fighters' Helmets

6334

Made of ULTEM® thermoplastic for superior impact protection and penetration resistance in wildland fire fighting conditions.

Delivers electrical insulation required for ANSI Z89.1-1997 Type 1 Class C, E, and G helmet specifications. Other performance standards these helmets meet include NFPA 1977, 1998 Edition; CAL-OSHA; and US-OSHA. Available in cap or hat style. Both are also available with with Six-point self-sizing suspension system or ratchet suspension. Features goggle retainer clips and reflective strips. Accepts brim grip brackets for faceshield visors and screens. Both cap and hat models have an adjustable Nomex® chin strap, goggle clips, underbrim shade, and Velcro® hook fasteners.

Suspension	Style	Model	Yellow	Red	Orange	White	Black	New! Dove Gray	New! Blue	Weight	Each	6+
Six-Point Self-Sizing	Cap	FH911C	**24587**	**24600**	**24611**	**24615**	**24642**		**24658**	1 lb.	**$46.25**	**$43.50**
	Hat	FH911H	**24588**	**24601**	**24613**	**24617**	**24643**		**24659**	1 lb.	**$50.75**	**$47.50**
Ratchet	Cap	FH911CR	**24604**	**24602**	**24612**	**24616**	**24644**	**24656**	**24660**	1 lb.	**$50.75**	**$47.50**
	Hat	FH911HR	**24605**	**24603**	**24614**	**24618**	**24645**	**24657**	**24661**	1 lb.	**$54.95**	**$51.95**

Bullard® Helmet Accessories

Optional Polycarbonate Visor – for cap or hat (bracket required)	6 oz.	**24592**	**$10.70**
Visor Bracket for Cap	4 oz.	**23108**	**$12.25**
Visor Bracket for Hat	5 oz.	**24591**	**$12.75**
Optional Tecasafe Ear and Neck Protector (both hook and loop strips of Velcro® included)	3 oz.	**24593**	**$26.95**
		10+	**$24.95**
Optional Tecasafe Ear, Neck and Face Protector (both hook and loop strips of Velcro® included)	3 oz.	**24594**	**$34.25**
		10+	**$32.25**

Note: The date of manufacture is stamped into the bottom side of the brim of hats and caps.

Bullard® Helmet Replacement Parts

Replacement Six-Point Suspension System for Helmets Made Prior to March 2008	3 oz.	**24904**	**$9.40**
Replacement Sure-Lock Ratchet Suspension for Helmets Made Prior to March 2008	4 oz.	**24586**	**$15.75**
		10+	**$14.75**
Replacement Goggle Clips, set of 3	1 oz.	**24597**	**$3.60**
Optional Pinlock Suspension System	4 oz.	**24640**	**$8.50**

Bullard® Helmet Replacement Parts

Replacement Ratchet Suspension System	5 oz.	**24641**	**$14.10**
Replacement Cotton Brow Pad	1 oz.	**24891**	**$4.60**
New! Replacement Polartec® Brow Pad	1 oz.	**24538**	**$6.20**
New! Replacement Brown Vinyl Brow Pad	1 oz.	**24546**	**$4.50**
New! Replacement Nomex® Chinstrap	2 oz.	**24537**	**$19.75**
New! Replacement Leather Ratchet Cover	1 oz.	**24539**	**$19.25**

Bullard

Bullard® Firedome® Firefighting Helmet

1533

The toughest, most durable firefighting helmet we carry!

2 Manufacturer's Warranty 2 Year

The outer shell is made of high heat ULTEM® thermoplastic which retains its protective properties fire after fire and provides greater protection against impact/penetration than fiberglass. A 6˝W polycarbonate faceshield with anti-scratch coating protects your face. Helmet is lined with Prevex® inner shell and features a Sure-Lock® ratchet headband. Features a detachable inner crown consisting of a polyphenylene oxide inner shell and a urethane foam impact liner. Fire-resistant Nomex® quick release chin strap and ear/neck protection. Reflective exterior markings and elastomer edging along helmet's rim. Two-year warranty.

Meets or exceeds the following codes/ specifications: NFPA 1971-2000 as certified by the Safety Equipment Institute, US-OSHA (NFPCA 1977), and all major state helmet codes.

PX Firedome Helmet with 6˝W Faceshield	4 lbs.	**24550**	**$249.75**
		4+	**$226.50**

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FoxFury Discover Fire Helmet Light/Headlamp
4649

Manufacturer's Warranty 2 Year

This ultra-slim LED helmet light provides focused and panoramic lighting using three white LEDs with two light intensities (45% and 100%). In addition, a flashing red safety LED in the back allows you to easily be seen in the field. The rugged light is waterproof to 10 feet and is both fire-resistant and impact-resistant. The aircraft-grade aluminum housing features stainless steel sidepods, and the 1″ wide silicone strap features a high-temperature nylon buckle. Fits 99% of fire helmets with goggles, Bourke Eyeshields, EZ-Flips, Defender Visors, and external faceshields. Meets NFPA Fire Resistant Requirements (500°F for 30 minutes). Two-year warranty from the manufacturer.

Light Output: 120 Lumens. **Field of Vision:** 38°. **Distance Vision:** up to 150 feet (47 meters). **Peripheral Vision:** 60 feet (19 meters). **Batteries:** 4 AA batteries (not included). **Battery Life:** 4.5 to 11.5 hours (varies by mode). **Dimensions:** 2.8″W x 0.7″D x 0.6″H. **Weight:** 9.4 oz.

FoxFury Discover Fire Helmet Light/Headlamp 12 oz.	**02207**	**$119.99**
AA cell Alkaline Batteries, pack of 4 7 oz.	**02352**	**$3.25**

FoxFury Discover Tasker S Helmet Light/Headlamp
4650

Manufacturer's Warranty 2 Year

Versatile and powerful, this ultra-slim LED light can be worn on a helmet using the 1″ wide silicone strap or on your forehead using the included elastic strap. The light provides focused and panoramic lighting by utilizing three white LEDs with two light intensities (45% and 100%), and the 45° quick tilt function lets you aim the light where you need it. A flashing red safety LED in the back allows you to quickly be spotted in the field. In addition to being both fire-resistant and impact-resistant, the light is waterproof to 10 feet. The durable aircraft-grade aluminum housing features stainless steel sidepods. Fits 99% of fire helmets with goggles, Bourke Eyeshields, EZ-Flips, Defender Visors, and external faceshields. Meets NFPA Fire Resistant Requirements (500°F for 30 minutes). Two-year warranty from the manufacturer.

Light Output: 120 Lumens. **Field of Vision:** 38°. **Distance Vision:** up to 150 feet (47 meters). **Peripheral Vision:** 60 feet (19 meters). **Batteries:** 4 AA batteries (not included). **Battery Life:** 4.5 to 11.5 hours (varies by mode). **Dimensions:** 2.8″W x 0.7″D x 0.6″H. **Weight:** 9.4 oz.

FoxFury Discover Tasker S Helmet Light/Headlamp 13 oz.	**02206**	**$119.99**
AA cell Alkaline Batteries, pack of 4 7 oz.	**02352**	**$3.25**

FoxFury Command Series Fire Helmet Lights
7662

With an ultra-slim, low-profile design, these lights easily fit beneath most fire helmet visors and faceshields where only limited clearance exists. Available with either 10 LEDs or 20 LEDs, each helmet light features three operating modes and an optimized blend of focused, distance, and panoramic light. In addition to the LEDs in the front, a red safety LED in the back helps you to be seen by others. The polycarbonate housing is fire- and impact-resistant and is also waterproof to 20 feet (6 meters). Fits all fire helmets with goggles, Bourke Eyeshields, EZ-Flips, Defender Visors, and external faceshields. Meets NFPA Fire Resistant Requirements (500°F for 30 minutes). Two-year warranty from the manufacturer. **Dimensions:** 4.8″W x 0.7″D x 1.0″H. **Weight:** 8.4 oz.

Manufacturer's Warranty 2 Year

FoxFury Command 10 Fire Helmet Light

Features 10 white LEDs.

Light Output: 48 Lumens. **Field of Vision:** 38°. **Distance Vision:** 50 to 75 feet (15 to 23 meters). **Peripheral Vision:** 48 feet (15 meters). **Batteries:** 4 AA batteries (not included). **Battery Life:** 16 to 32 hours.

FoxFury Command 10 Fire Helmet Light 9 oz.	**02167**	**$65.99**

FoxFury Command 20 Fire Helmet Light

Features 20 LEDs (18 white and 2 green). The combination of white and green light enhances depth perception and helps you to see and be seen through mild to moderate smoke.

Light Output: 72 Lumens. **Field of Vision:** 38°. **Distance Vision:** 100 to 120 feet (31 to 37 meters). **Peripheral Vision:** 48 feet (15 meters). **Batteries:** 4 AA batteries (not included). **Battery Life:** 8 to 16 hours.

FoxFury Command 20 Fire Helmet Light 9 oz.	**02168**	**$89.99**

Black Jack Double Down Flashlight Holder
4624

Designed to work on any helmet! Set of four thermoplastic strap holders accommodate all major light company headlamp straps and goggle straps. Made from high temp thermoplastic, holders have a 3M VHB adhesive backing for attaching to helmet.

Black Jack Double Down Flashlight Holder 1 oz.	**24620**	**$9.75**

STREAMLIGHT
Heroes Trust Streamlight

Manufacturer's Warranty Limited Lifetime

Streamlight® PolyTac® LED Helmet Lighting Kit
7738

Designed for use with traditional and modern style helmets, this kit includes a PolyTac LED flashlight that attaches to your helmet using either an aluminum helmet mount or a high-strength rubber helmet strap. The PolyTac flashlight utilizes a shock-resistant C4® LED that delivers 9,500 candela peak beam intensity and 275 lumens measured system output. **TEN-TAP® Programming lets you select from three operating modes:** high/strobe/low, high only, or low/high. A push-button tailcap switch allows for easy operation even when wearing gloves, and the high-impact nylon polymer body ensures outstanding durability. IPX7 rated design. Waterproof to 1 meter for 30 minutes. Manufacturer's limited lifetime warranty. Meets NFPA 1971-8.6 (2007) requirements.

Output: High, 275 lumens; Low, 14 lumens. **Beam Distance:** High, 195m; Low, 45m. **LED Life:** 50,000 hours. **Power:** two 3V CR123A Lithium batteries (included). **Run Time:** High, 3 hours; Low, 65 hours; Strobe, 5.5 hours. **Weight:** 4.2 oz. **Length:** 5.34″.

Streamlight PolyTac LED Helmet Lighting Kit 11 oz.	**02464**	**$69.75**

BlackJack Chainsaw Light Mount
4783

Designed for use with chainsaws, extrication or cutting tools. Attaches to the cross bar and allows complete adjustability even with a gloved hand. Switching from tool to tool is a cinch thanks to the quick release lever attachment. The light can be pointed as needed while working. Designed to accommodate the tactical style, round lights measuring 1″ to 1-1/8″ in diameter.

BlackJack Model EM001 Chainsaw Light Mount 6 oz.	**24621**	**$54.95**

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Dozer Chest Harness
4356

Designed for Engine and Dozer crews!

This chest harness pack holds your New Generation fire shelter, radio, and spare battery where it's easily accessed and out of your way. It sits comfortably on your chest, without sagging or swinging, thanks to the unique suspension system. Designed to carry Bendix King, Motorola, Icom, Thales, and Kenwood radios. Other features include a mesh back plate which allows airflow and eliminates multiple straps, 2 pen slots, a large map/notebook pocket with Velcro® closure, and a small pocket for a spare battery or mobile phone.

Dozer Chest Harness	9 oz.	**35909**	**$43.95**

True North Universal Radio Chest Harness
7762

Featuring an ergonomic design that combines a rounded shape with an internal suspension, this rugged Cordura® radio harness sits comfortably on your chest without sagging or swinging. A zippered front pocket holds your Kestrel® meter, cell phone, or GPS. Also features a large map/notebook pocket with half-moon zipper closure, pocket for spare batteries, and two pen slots. A mesh back plate allows for airflow and eliminates multiple straps.

Single Radio Harness

Designed to carry all sizes of radios.

Single Radio Harness	13 oz.	**35348**	**$46.95**

Dual Radio Harness

Both radio pockets are the same size and hold most Bendix King, Motorola, Icom, Thales, M/A-COM, and Kenwood radios.

Dual Radio Harness	1 lb.	**35349**	**$50.95**

True North® Stealth Radio Harness
7252

Keeps you cool thanks to the small size! Converts from a chest harness to a belt harness or it attaches to your pack's shoulder harness. Constructed of 1000D Cordura® with nylon webbing. One size fits all.

Stealth Radio Harness	8 oz.	**35915**	**$39.95**
		6+	**$36.95**

Aquapac® Waterproof Two-Way Radio Cases
8494

Outstanding protection!

Radio sound and signals pass easily through the material of these waterproof cases so that you can use your radio normally while the case provides protection from water, dust, and sand. The case's airtight seal ensures your radio will float safely if dropped in water. Designed for use with both left- and right-hand antenna radios. PVC free. Guaranteed submersible to 15 feet (5 meters), these cases are ideal for general use. Neck cord and carabiner included.

Small Waterproof VHF Classic Case, Length to Antenna Tip: 14″; Body Section: 7″; Circumference: 7.6″	4 oz.	**91200**	**$35.00**
Large Waterproof VHF Classic Case, Length to Antenna Tip: 16″; Body Section: 8.7″; Circumference: 8.7″	5 oz.	**91023**	**$35.00**

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Coaxsher™ DR-1 Commander Dual Radio Chest Harness

4693

Designed to keep your communication devices within easy reach, this harness features two radio holsters that adjust to accommodate various sizes of radios. Also features a large, wide-mouth, zippered main pocket with two internal pockets. Other storage includes a spare battery shell/cell phone pocket and pockets for writing tools. A fold-down platform allows for taking notes or reading a map in the field. High-strength grommets and D-ring for securing extra gear. Removable Mod-u-Lox C-clip holds a mini flashlight. Open-air, ergonomic back plate decreases weight and improves airflow. Features a glow stick holder as well as reflective material on the front and back for high visibility. Manufacturer's lifetime warranty.

Coaxsher DR-1 Commander Dual Radio Chest Harness	11 oz.	**35350**	**$52.00**

Coaxsher™ RCP-1 Pro Radio Chest Harness

4697

Designed for ultimate comfort and functionality, this radio chest harness features a main holster that adjusts to fit various radio sizes. A large, wide-mouth pocket features a zipper closure and offers plenty of storage. The harness also includes an adjustable radio/cell phone/GPS holder, pockets for writing tools, a pocket that can hold a Kestrel® meter, and a spare battery shell/cell phone pocket. Use the fold-down platform to take notes or read maps in the field. High-strength grommets and D-ring for securing extra gear. Removable Mod-u-Lox C-clip holds a mini flashlight. Open-air, ergonomic back plate decreases weight and allows for airflow. Reflective material on the front and back ensures high visibility. Also features a glow stick holder. Manufacturer's lifetime warranty.

Coaxsher RCP-1 Pro Radio Chest Harness	12 oz.	**35359**	**$51.00**

Coaxsher™ RP-1 Scout Radio Chest Harness

4698

Specially designed for use when you're wearing a backpack! The perimeter of this chest harness features an ergonomic shape that eliminates extra bulk, provides outstanding comfort, and helps keep you cool in the field. The main holster can accommodate various radio sizes. Also includes a zippered main pocket, an adjustable cell phone/GPS/small radio holder, and a writing tool pocket. Manufacturer's lifetime warranty.

Coaxsher RP-1 Scout Radio Chest Harness	7 oz.	**35374**	**$37.00**

Crew Boss Radio Harness

1534

Conveniently carry any hand-held radio!

Features covered pocket for extra battery and twin pen pocket. D-ring holds an external microphone. Adjustable web system securely carries radio while allowing access to controls. Harness body is fully padded for comfort. Full-size mesh pocket for map storage. Constructed of 1,000 Denier Cordura® nylon and premium quality woven web and hardware.

Radio Harness	8 oz.	**35924**	**$48.95**
		5+	**$45.25**
Double Radio Harness	10 oz.	**35925**	**$42.95**

Coaxsher™ MOLLE Radio Holster

4696

This single radio holster easily attaches to a Coaxsher backpack (on the hip belt or shoulder straps), the front of a MOLLE chest harness, a belt, or any item with the MOLLE attachment system. Constructed of 1000 Denier Cordura® and features high-quality nylon webbing and ITW Nexus hardware. Manufacturer's lifetime warranty. **Dimensions:** 7″H x 3-1/2″W x 1-3/4″D.

MOLLE Radio Holster	4 oz.	**35356**	**$26.00**

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Manufacturer's Warranty Lifetime

Coaxsher™ FS-1 Mojave Wildland Fire Pack

4694

This versatile system consists of a main pack harness, a water reservoir case that holds up to a 102 oz. water bladder (bladder not included), and a New Generation Fire Shelter case with glove compartment. The hip belt features a daisy chain which allows you to customize the pack by adding other Coaxsher accessories (each sold separately). The fire shelter case attaches to the main pack harness with quick-release buckles and can also be attached to the side of the hip belt using the included ALICE clips. A drop-down feature on the fire shelter case counterbalances weight when digging and then allows you to position the case upright for comfort while hiking. The ergonomic suspension harness features high-quality padding for all-day comfort, aluminum stays, and a Dual Action Stabilizer™ system that places the load in optimal position to improve stability and balance. Constructed of 1000 Denier Cordura®. Manufacturer's lifetime warranty.

Coaxsher FS-1 Mojave Wildland Fire Pack	3 lbs.	**35913**	**$129.00**

35376

Manufacturer's Warranty Lifetime

Coaxsher™ FS-1 Ranger Wildland Fire Pack

7411

1000 Denier Cordura®. Quick-release buckle connections let you quickly transform and assemble the pack to meet your needs. Adjusts to fit multiple torso and waist sizes. The ergonomic harness system's aluminum stays provide excellent load support, and the Dual Action Stabilizer™ system keeps load weight focused on the hips while stabilizing your balance. The Fire Shelter case's drop-down feature allows you to counterbalance weight during digging and then to position the fire shelter case upright for comfort while hiking. The pack features ten pockets including large side pockets for water bottles (Capacity: four 32 oz. bottles) and two covered side pockets for fusees. A 102 oz. water reservoir case features dual hose ports. Manufacturer's lifetime warranty. **Full Capacity:** 2,700 cubic inches. **Light-Duty Capacity:** 800 cubic inches.

FS-1 Ranger Pack, Black	5 lbs.	**35935**	**$239.00**
FS-1 Ranger Pack, Orange	4 lbs.	**35376**	**$239.00**
FS-1 Ranger Pack, Red	4 lbs.	**35377**	**$239.00**

Manufacturer's Warranty Lifetime

Coaxsher™ FS-1 Spotter Wildland Fire Pack

7412

Compact and lightweight, this customizable pack features several removable modules including a 700 cubic inch main pack, New Generation Fire Shelter case with gloves pocket, 102 oz. water reservoir case, and water bottle case. The pack features an ergonomically-designed harness system, aluminum stays for a custom torso curve fit, and adjustable waist/shoulder straps. The fire shelter case's drop-down feature allows you to drop-down the case when digging and then position the case upright for comfort while hiking. The Dual Action Stabilizer™ system integrates a load-bearing and hip-belt strap to place the load into optimal position for stability and comfort. The water bottle case holds one 32 oz. or two 16.9 oz. bottles. Constructed of DuPont® 1000 Denier Cordura®. Manufacturer's lifetime warranty. **Capacity:** 1,100 cubic inches.

FS-1 Spotter Fire Pack, Black	4 lbs.	**35353**	**$175.00**
FS-1 Spotter Fire Pack, Orange	4 lbs.	**35354**	**$175.00**
FS-1 Spotter Fire Pack, Red	4 lbs.	**35942**	**$175.00**

35378 35382

35905 35919

35356 35948 35953

Accessories for Coaxsher™ Wildland Fire Packs

4695

Sawyer Case –
Ideal for storing saw wedges, tools, and files. Attaches to the top of any Coaxsher main pack using four 3/4″ buckles. Measures 5″H x 6.5″W x 9″L.
6 oz. **35378** **$29.95**

MOLLE Stowable Hip Case –
Store water bottles, fuel bottles, hose clamps, and other items in this case for easy access. Case rolls up for storage when not in use. Features a MOLLE attachment system. Measures 8″H x 5″W x 5″D and rolls down to 5″H x 5″W x 1.5″D.
5 oz. **35382** **$19.95**

MOLLE Gadget Case –
Perfect for storing small items such as cameras, GPS units, flashlights, cell phones, wallets, keys, and more! Features a MOLLE attachment system. Measures 6″H x 4.5″W x 3″D.
6 oz. **35905** **$20.00**

Fire Shelter Case –
Fits New Generation Fire Shelter and features a convenient glove pocket. Two ALICE clips allow for vertical or horizontal attachment to a pack's hip belt. Constructed of DuPont® 1000 Denier Cordura® and features 3M® reflective tape, nylon webbing, and ITW Nexus® buckles and hardware.
8 oz. **35919** **$28.00**

MOLLE Radio Holster –
Single radio holster attaches to gear with MOLLE attachment system. Constructed of 1000 Denier Cordura®. Dimensions: 7″H x 3-1/2″W x 1-3/4″D.
4 oz. **35356** **$26.00**

Dual Flagging Tape Dispenser –
Holds one or two full rolls of flagging.
1 oz. **35948** **$14.00**

Water Bottle Case –
Fits one 32 oz. or two 16.9 oz. bottles.
4 oz. **35953** **$18.50**
6+ **$16.75**

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TRUE NORTH

True North® Aero-Vest™ Search and Rescue Vest

8689

Designed by and for people dedicated to saving lives. Minimizes heat-trapping, maximizes air flow, and provides a greater range of motion than conventional designs. Ideal for timber cruising or other forestry work in hot weather. Made of 3-D cooling mesh, it converts from a vest to two thigh packs in seconds. 12 pockets for organization and quick access (includes two quick-draw pockets with 8-1/2″ zippered openings), radio pocket with adjustable keeper strap, detachable F.O.G. case with page protectors and book marks, flagging tape dispenser, two 2″ x 4″ Velcro® patches for ID, and a grab/drag handle.

Capacity: 975 cu. in. **Weight:** 2 lbs. **Materials:** 1000D Cordura®, 3-D Mesh, Nylon Webbing, #8 YKK® Zipper, 3M™ Reflective Tape, and Nylon Hardware.

Aero-Vest, Black	2 lbs.	**35985**	**$134.25**
Aero-Vest Pack, Black	1 lb.	**35989**	**$44.25**

Speed Belt - With the click of four buckles you can attach or detach from the Aero-Vest in seconds. Rugged construction with 1/2″ XPE foam padding provides unequaled comfort and strength for those long days in the field. The Speed Belt is required for attaching the Aero-Pack and GO! Pack to the Aero-Vest.

	1 lb.	**35987**	**$37.50**

GO! Pack, Black - Simple attachment system allows you to attach or remove this pack in seconds. Top loader design with separate hydration pocket, lid pocket and two covered side pockets for 1,500 in³ capacity.

	2 lbs.	**35830**	**$73.95**
		10+	**$68.25**

Load Bearing Suspender System

1108

Combine suspenders and belt with the accessories that meet your needs in the field!

Load-bearing suspender system distributes weight comfortably. All accessories are olive drab. Belt and suspenders sold separately.

Nylon Pistol Belt, 2-1/4″W, Up to 46″ Waist	10 oz.	**93201**	**$8.25**
		10+	**$7.95**
G.I. Style Suspenders With Padded Shoulders	8 oz.	**94051**	**$10.99**
Belt Pouch, Cordura – Holds two 20 oz. Fuel Bottles, 5-1/2″ x 10″ x 3-1/2″	3 oz.	**94055**	**$11.25**
1-Quart Canteen	6 oz.	**93271**	**$5.70**
		10+	**$4.95**
Insulated Canteen Cover	4 oz.	**93270**	**$5.75**
		10+	**$5.20**
Fanny Pack Carry Bag, 6″ x 9″ x 8″	10 oz.	**94054**	**$25.25**
Military Right Angle Flashlight (Requires 2 D Cell Batteries)	8 oz.	**02413**	**$15.25**
		12+	**$13.95**
Replacement Krypton Lamp For 02413	1 oz.	**02417**	**$2.05**
D cell Alkaline Battery, Single	6 oz.	**02180**	**$2.45**

New Generation Forest Fire Protection Shelters

2575

Meets U.S. Forest Service specifications.

Outer layer of foil reflects 95 percent of radiant heat. The inner layer is constructed of fiberglass laminated to aluminum foil. Includes a nylon carrying case and a hard plastic liner.

Dimensions: Folded in case - Regular, 8.5″H x 5.5″W x 4″D; Large, 9″H x 5.5″W x 4″D. Deployed - Regular, 86″L x 15.5″H x 31″W; Large, 96″L x 19.5″H x 33″W.

Regular Fire Shelter	5 lbs.	**35918**	**$359.00**
		5+	**$339.00**
		10+	**$319.00**
Large Fire Shelter	6 lbs.	**35978**	**$399.00**
		5+	**$384.00**
		10+	**$369.00**
Regular Practice Fire Shelter	3 lbs.	**23079**	**$144.00**
		5+	**$134.00**
Large Practice Fire Shelter	3 lbs.	**23067**	**$156.00**
		5+	**$146.00**

G.I. Alice Packs

8533

Made of 1000 Denier with a waterproof lining, these rugged packs are ideal for the outdoors. Three large vented outside pockets and accessory loops keep necessary items handy. Padded kidney pad and shoulder straps help keep heavy loads bearable. **Dimensions:** Medium Pack, 20″ x 19″ x 11″; Large Pack, 22″ x 20″ x 19″. The large pack comes with a heavy-duty anodized aluminum frame.

Medium Pack	3 lbs.	**35386**	**$53.99**
Large Pack with Frame	4 lbs.	**35387**	**$103.99**

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ECHO

New! Echo® CS-590 Timber Wolf Chainsaw

4919

Setting a new standard for toughness, this rugged chainsaw features a professional-grade 59.8 cc two-stroke engine. The G-Force Engine Air Pre-Cleaner™ extends engine life by spinning out dirt, and the heavy-duty air filter is easily accessible. A side-access chain tensioner allows for quick adjustments. In addition, the chainsaw features a digital ignition system, a decompression valve, a spring anti-vibration system, a clutch-driven oiler, a dual-post chain brake system, and a translucent fuel tank.

Engine Size: 59.8 cc. **Weight:** 13.3 lbs. **Fuel Tank Capacity:** 21.8 oz. **Chain Oil Capacity:** 10.1 oz. **Warranty:** 5-Year Consumer; 1-Year Commercial.

Echo CS-590 Timber Wolf Chainsaw with 18″ Bar	20 lbs.	**80135**	**$389.95**
Echo CS-590 Timber Wolf Chainsaw with 20″ Bar	21 lbs.	**80136**	**$399.95**

ECHO

New! Echo® CS-400 Chainsaw

4918

18″ Bar

Combining professional features and excellent value, the CS-400 utilizes a 40.2 cc Power Boost Vortex™ engine to provide plenty of cutting power. A G-Force Engine Air Pre-Cleaner™ increases engine life by spinning out dirt, and the automotive-style air filter ensures outstanding filtration. The side-access chain tensioner allows for quick adjustments, and the i-30™ starting system reduces starting effort by 30%. Additional features include a computerized ignition advance system that automatically adjusts engine timing, an adjustable automatic oiler, a cold weather by-pass for easy starting during winter, and a vibration reduction system.

Bar Length: 18″. **Engine Size:** 40.2 cc. **Weight:** 10.1 lbs. **Fuel Tank Capacity:** 13.9 oz. **Chain Oil Capacity:** 9.5 oz. **Warranty:** 5-Year Consumer; 1-Year Commercial.

Echo CS-400 Chainsaw with 18″ Bar	16 lbs.	**80134**	**$299.95**

MacKenzie Chainsaw Pack

2173

Carry your chainsaw and gear together safely.

Use this pack to carry your chainsaw, fuel, tools, safety chaps, firefighter line gear, fire shelter, water bottles, and more! Two large pockets can accommodate your chainsaw tool kit or a standard fire shelter, and the two side pouches fit 32 oz. fuel bottles. The pack's narrow design comfortably fits the contour of your body and helps keep you cool by dissipating body heat. Constructed of heavy duty Cordura®, the pack also features contour-curved shoulder straps, "D" rings for tying awkward loads, webbing loops for carrying hand tools, and reflective tape for nighttime visibility. Available in red or forest green.

Optional Piggyback Gear Pack

Expand your storage space by adding the optional Piggyback Gear Pack. The gear pack connects to the MacKenzie Chainsaw Pack using Fastex buckles or can be used by itself as a day pack. Constructed of heavy duty Cordura with reflective tape accents. Available in red or forest green.

Red MacKenzie Saw Pack	3 lbs.	**35927**	**$295.00**
Forest Green MacKenzie Saw Pack	3 lbs.	**35929**	**$295.00**
Red Piggyback Gear Pack	12 oz.	**35928**	**$92.25**
Forest Green Piggyback Gear Pack	12 oz.	**35931**	**$92.25**

More Chainsaws page 114

Soft-Sided First Aid Kit page 656

Chain Saw Pack

8691

Unique design holds the saw in next to your center of gravity and prevents it from bouncing or swinging as you move over rough terrain. Simply drop the power head into the carrier, attach the bar with one buckle and go. Pack comes with three drawstring pockets for fuel, water, and other essentials; a Next Generation fire shelter case; and an axe scabbard. Modular design allows you to position pouches anywhere along the belt or back of the saw carrier. Other features include ultra thick dual-density foam waist belt and harness, and a leather shoulder pad. Accommodates wrap around handle bars as well as top and side handle bars. **Materials:** 1000D Cordura®, Nylon Webbing, Leather, Reflective Tape, Nylon Hardware.

Chain Saw Pack	6 lbs.	**35991**	**$229.95**
GO! Pack, Black	2 lbs.	**35830**	**$73.95**
		10+	**$68.25**

True North® Saw Bar Cover

8392

Features rugged 1000D Nylon construction with oversize leather guards and a 1-3/4″ generous foam shoulder padding for a safe and comfortable carry. Two exterior pockets with Velcro® closure cover flaps keep tools and spare parts handy. Wedge pocket on tip makes it easy to grab.

24″ Saw Bar Cover	1 lb.	**35933**	**$60.25**
28″ Saw Bar Cover	1 lb.	**35934**	**$60.95**

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True North® Firefly Wildland Pack

Manufacturer's Warranty Lifetime

2595

This versatile pack features a removable gear bag which detaches from the main pack. The removable fire shelter and fusee pockets are reversible for left- or right-handed opening and attach to the belt either vertically or horizontally. The SCS™ (Super Compression Suspension) design provides unparalleled comfort and support. Because the pack's shoulder straps are attached to the outside of the load, the pack won't tilt or bounce. In addition to the load-trapping suspension, the pack also features two side pockets which can accommodate one-liter bottles, trap pocket for extra gear, a backdraft ventilation panel, and reflective trim. Hip belt and harness are removable. Lifetime manufacturer's warranty. **Capacity:** 2,500 cubic inches. **Color:** Red/black.

True North Firefly Wildland Pack	5 lbs.	**35958**	**$224.95**
		5+	**$213.75**
		10+	**$202.50**
Hydro-Speed Reservoir Hydration System	8 oz.	**35964**	**$32.50**

True North® Spitfire Wildland Pack

Manufacturer's Warranty Lifetime

2596

Mid-sized pack offers plenty of storage.

The patented SCS™ (Super Compression Suspension) is designed to make this pack feel virtually weightless and ultra comfortable by pulling the pack's load securely against you. Hip belt and harness are removable. Other features include a removable fire shelter pocket, two side pockets which can hold one-liter bottles, and reflective trim. Meets NFPA 1977, Current Edition. Lifetime manufacturer's warranty. **Capacity:** 2,250 cubic inches. **Color:** Black.

Black Spitfire Wildland Pack	5 lbs.	**35959**	**$179.95**
		5+	**$171.25**
		10+	**$161.95**
Hydro-Speed Reservoir Hydration System, 100 oz. Capacity. Features a leak-proof bite valve and an oversized fill spout.	8 oz.	**35964**	**$32.50**

True North® Fireball Pack

7251

Designed to carry the necessities without all the cumbersome extras! Features an ultra thick dual-density foam waist belt and harness, patented SCS load trapping suspension, 100 oz. hydration bladder pocket (bladder not included), removable New Generation fire shelter case, side pockets that each hold two 1-liter bottles and cinch at the top, 12 fusee carrying capacity and it's made of 1000D Nylon with #10 and #8 YKK zippers for durability. **Capacity:** 1200 cu. in. **Color:** Red or Black.

Fireball Pack, Black	4 lbs.	**35992**	**$154.95**
		4+	**$148.75**
Fireball Pack, Red	4 lbs.	**35977**	**$154.95**
		4+	**$148.75**

True North® Spyder Web Gear

2597

Take your essential equipment with you with this durable, comfortable web gear. The SCS™ (Super Compression Suspension) provides superior comfort and moves with you.

Manufacturer's Warranty Lifetime

True North® Spyder Wildland Web Gear

Features fire shelter housing, mini gear bag, and an accessory pocket. Meets NFPA 1977, Current Edition. Lifetime manufacturer's warranty.

Spyder Wildland Web Gear	3 lbs.	**35963**	**$129.95**
		5+	**$123.95**
		10+	**$116.95**

Accessories for Both Spyder Models

GO! Pack, Black	2 lbs.	**35830**	**$73.95**
		10+	**$68.25**
Lynx Hydration Pack - Closed cell insulation, covered fill port and bite valve, attaches with D-Rings	1 lb.	**35894**	**$55.75**

True North® Spyder SAR Web Gear

Perfect for the Search and Rescue worker when working from a vehicle and only needing the essentials. Everything quickly attaches with ALICE clips for easy re-positioning or removal. Features a removable gear bag and two removable accessory pockets for holding 1L/32 oz. water bottle. **Capacity:** 250 cubic inches. **Color:** Red.

Spyder SAR Web Gear, Red	3 lbs.	**35902**	**$129.95**
		5+	**$123.95**
		10+	**$116.95**

True North® Pack Accessories

7528

Hose Clamp Holster	6 oz.	**85452**	**$20.95**
Flagging Dispenser	3 oz.	**35965**	**$13.95**
		5+	**$12.95**
GPS Case - 7″ x 3.5″ x 3.5″	5 oz.	**35892**	**$30.95**
Accessory Pocket	4 oz.	**35832**	**$15.75**

MSR Whisperlite™ International Multi-Fuel Camp Stove page 668

Katadyn® Mini Filter page 663

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TRUENORTH

TrueNorth® Trauma Bag

7530

Designed for major trauma, cardiac and other medical emergencies. Main compartments and five external pockets keep large amounts of BLS and ALS equipment well organized for quick access. The main pocket has fully adjustable dividers for custom configuration and can accommodate oxygen cylinders, Ambu bags and defribillators. Can be worn as a backpack with stowable hip belt and shoulder harness or carried by hand. **Dimensions:** 19″L x 11″W x 19″H.

Trauma Bag	6 lbs.	**35860**	**$215.96**

NOTE: Medical supplies and tools are not included.

TRUENORTH

True North® "The Beast" Rolling Duffle

8393

The Beast is big, it rolls, and it's extremely durable! Unique diagonal side strut construction allows the duffle to stand on end without flopping over. Other features include a large main compartment with interior lash down straps for gear, a mesh organizer pocket in the lid, a large second pocket for boots and ID, and a slash pocket on the end to keep essentials close at hand. Constructed of Ballistic™ Nylon. Meets airlines maximum allowed checked baggage. **Capacity:** 7,500 cu. in. **Dimensions:** 14″H x 18″W x 30″L.

"The Beast" Rolling Duffle	10 lbs.	**35946**	**$172.25**
		3+	**$166.95**

Ultimate Fire Fighter Bags

2170

8,000 Cubic Inches of Storage!

Roomy doesn't even begin to describe this bag! The vented main compartment measures 18″x 17″x 16″. In addition, the bag has four pockets including an extra large helmet pocket, reflective trim along the handles and on both ends, and a shoulder strap for heavy loads. The wheeled model features a rugged dual wheel system to make transporting your gear even easier. **Overall Dimensions:** 29″x 17″x 16″. **Capacity:** Approx. 8,000 cubic inches.

Ultimate Fire Fighter Bag	4 lbs.	**35917**	**$59.95**
		5+	**$57.95**
Wheeled Ultimate Fire Fighter Bag	10 lbs.	**35914**	**$79.95**

TRUENORTH

Campaign Pack/14-Day Bag

4357

Protect your personal gear with this 14-day bag! The Hydroloc™ waterproof sleeping bag compartment ensures a dry sleeping bag while the protected toiletry pocket keeps things from getting squashed. The exterior pocket is large enough to hold your tent. Other features include a padded, detachable shoulder strap; stowable, padded backpack straps for long hauls; 1000D Cordura® construction; and #10 and #8 Zippers for durability. **Capacity:** 6,500 cu in. **Dimensions:** 29″x 16″x 14″. **Color:** Red.

14-Day Bag	5 lbs.	**35910**	**$145.95**

Fire Fighter Gear Bag

1544

Features extra reinforcement in heavy stress areas.

Urethane-coated "MAGNUM" fabric construction is waterproof and easily laundered. #10 double pull zippers allow bag to be fully opened from side. Two 2″wide handles completely encircle bag. Zippered, 10″x 10″ side pocket is ideal for smaller items. **Dimensions:** 23″L x 16″D x 14″W.

Fire Fighter Gear Bag	2 lbs.	**35922**	**$72.75**
		5+	**$68.25**

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CAMELBAK

CamelBak® eddy™ Water Bottle

8134

Won't leak or spill even if left open!

Never worry about spills with this bottle! Just flip up the Big Bite™ valve and sip. The bottle's articulating stem allows the valve to fold flush when not in use, keeping the drinking surface clean. The standard cap size even allows you to use the lid with other bottles. The bottle can be clipped to a carabiner using the integrated handle. Dishwasher safe. **Capacity:** 25 oz. (0.75 liters).

eddy Water Bottle, Navy	6 oz.	**93973**	**$14.25**
eddy Water Bottle, Charcoal HOD	7 oz.	**93992**	**$14.95**
		12+	**$13.95**

Hydro Flask® Tactical Line Insulated Bottles

4767

Manufacturer's Warranty Lifetime

Designed to keep beverages hot or cold for hours!

Constructed of 18/8 stainless steel, the Hydro Flask features double-wall vacuum insulation to keep beverages cold for up to 24 hours and hot for up to 12 hours. In addition, the advanced insulation prevents both condensation from cold beverages and heat transfer from hot beverages so that you can always comfortably handle the bottle. The Hydro Flask is BPA-free, easy to clean, and highly resistant to odors and bacteria. Lifetime warranty from the manufacturer.

Capacity: 21 oz. **Mouth Width:** 1.81″ (standard width). **Bottle Height:** 8.87″ (10.56″ with cap). **Bottle Circumference:** 9.06″. **Bottle Diameter:** 2.85″. **Bottle Weight:** 10.4 oz.

Desert Tan	11 oz.	**93887**	**$25.19**
Foliage Green	11 oz.	**93888**	**$25.19**

Peet Personal Hydration System Dryer page 664

NALGENE®

Nalgene® Water Bottles

2677

Made in USA

BPA Free

Constructed of tough Lexan®, this 32 oz. water bottle is impact-resistant even at extreme temperatures. The wide mouth opening allows for easy filling, dispensing of contents, and cleaning. A leakproof loop-top cap keeps the cap with the bottle at all times. Resists stains and odors and does not transfer tastes or smells from use to use. Withstands temperatures from -135°C (-211°F) to 135°C (275°F). BPA free. Made in the USA.

32 oz. Narrow Mouth

Gray	6 oz.	**93982**	**$10.50**
		12+	**$9.50**
Slate	7 oz.	**93989**	**$10.50**
		12+	**$9.50**

32 oz. Wide Mouth

Gray	7 oz.	**93970**	**$10.50**
		12+	**$9.50**
Ruby Red	7 oz.	**93980**	**$10.50**
		12+	**$9.50**
Spring Green	7 oz.	**93987**	**$10.50**
		12+	**$9.50**
New! Easy Sipper, Black – Fits 32 oz. Nalgene Wide Mouth Bottles. Dishwasher safe.	1 oz.	**94006**	**$3.30**

Belt Pouch

Cordura – Holds two 20 oz. Fuel Bottles. 5-1/2″ x 10″ x 3-1/2″.

Belt Pouch	3 oz.	**94055**	**$11.25**

CAMELBAK

CamelBak® H.A.W.G.® Water and Gear Pack

8133

The 1,220.5 cubic inch capacity pack features a 100 oz. water pack. The OMEGA™ Reservoir makes filling and cleaning the water pack easy, and the closed cell insulation and neoprene tube cover keep water cool for hours. An Independent Suspension Harness ensures comfort even when traveling over intense terrain. Also features ASIPS antennae ports for antennae of all sizes, multiple MOLLE/PAL attachment points, an Air Director™ ventilated back panel for keeping cool, and an exterior pocket for storing small gear such as hand-held radios or tools. Constructed of abrasion-resistant 500D Cordura®. **Capacity:** 1,220.5 cubic inches; water pack, 100 oz. (3.0 liters). **Dimensions:** 19″ x 12″ x 6″.

CamelBak H.A.W.G. Water and Gear Pack, Black	3 lbs.	**35947**	**$155.25**
		5+	**$143.50**
CamelBak H.A.W.G. Water and Gear Pack, Army Camo	3 lbs.	**35954**	**$160.25**
		5+	**$148.25**

CAMELBAK

CamelBak® Armorbak™ Hydration Pack

3910

Designed specifically to attach to the back of the IOTV, MTV or any other vest that offers a MOLLE/PAL back panel. Quick Attach Pressure Straps increase the flow from the low profile reservoir and stabilize the load. Other features include an easy-to-fill and clean wide-mouth OMEGA® opening, rugged and durable Water Beast™ material, leak-proof screw-cap, insulated PureFlow™ tube, patented Big Bite™ Valve, HydroLink™ Exit Port and Drink Port, HydroLock™ one-handed flow control, and a low-profile 102 oz. reservoir for reduced profile in tight areas and riding in vehicles. Covered with a lightweight and durable 500D Cordura® Fabric. Lifetime guarantee from the manufacturer. **Dimensions:** 16″ x 10″ x 3″. **Capacity:** 102 oz. (3.1 liters). **Weight:** 1.1 lbs. (empty reservoir).

Armorbak Hydration Pack	1 lb.	**93476**	**$72.25**

Rubbermaid®

Rubbermaid® Water Coolers

1567

Keeps your beverages super-cool!

Rugged heavy-duty polyethylene with extra thick foam insulation for all-day-cool beverages. Every Rubbermaid cooler features a lid vent, splash seal, fast flow faucet, and heavy-duty handles. Orange with white top. Made in the USA.

3-Gallon, Swing-top bail handle. Cup lug. 10-7/8″ Dia. x 16-3/4″H. 8-1/2″ Opening.	5 lbs.	**31155**	**$32.25**
5-Gallon, Folding handles. Cup lug. 12-1/2″Dia. x 19″H. 10-1/4″ Opening.	7 lbs.	**31137**	**$33.95**
		6+	**$33.25**

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Portable Work Lights
page 686

Fire Gone™ Fire Extinguisher

7607

A fire extinguisher in an aerosol can. Delivers a strong, targeted stream that goes right to the source of the fire, coating it with specially formulated, fire fighting foam. Easy-to-use and simple to clean up. Made from biodegradable materials. **Net Weight:** 16 oz.

Fire Gone™ Fire Extinguisher	1 lb.	**85465**	**$11.95**

Pacer® Deluxe Fire Fighting System

2187

This complete fire fighting system can be used on brush, in remote wooded areas, and on buildings. Use any nearby stream, pond, shallow well, or pool as a water source. The centrifugal, gas-driven pump is powered by a 5.5 hp Briggs & Stratton OHV engine and is self priming to 25′ with initial charge. The system comes complete with 100′ of 1-1/2″ discharge hose, 20′ of 2″ suction hose, a 1-1/2″ adjustable spray nozzle, a 1-1/2″ street elbow, a 2″ x 1-1/2″ reducing nipple, a 2″ steel nipple, a 2″ strainer, a roll cage with rubber feet, and one roll of Teflon® tape. Ships in two boxes.

Pacer Deluxe Fire Fighting System	O	110 lbs.	**93109**	**$581.75**

Dry Chemical Water

Quality Fire Extinguishers by AMEREX®

1520

Amerex is a recognized leader in the manufacture of quality fire extinguishers. UL® approved, manufactured to standards under ISO-9002, and contain required HMIS information. Extinguishers operate in upright position. Squeeze grip handle, pull pin, and mounting bracket.

Class A	Class B	Class C
Common Combustibles	**Flammable Liquids**	**Live Electrical Equipment**
Wood, paper, cloth, rubber, trash, and most plastics	Gasoline, kerosene, oil, grease, solvents, gases, and paint	Computers, lamps, and electrical appliances

ABC Stored Pressure Multi-Purpose Dry Chemical Fire Extinguishers

Safe for Class A, B, and C fires. The unique extinguishing agent is a non-conductor of electricity which clings to surfaces and smothers flames. **Effective temperature range:** -65°F to +120°F.

Model B417TM/ 2-1/2 lb./Nozzle	A	6 lbs.	**85472**	**$45.95**
			6+	**$42.25**
Model B500T/ 5 lb./Hose	A	10 lbs.	**85473**	**$65.25**
			6+	**$61.25**
Model B456/ 10 lb./Hose	A	18 lbs.	**85474**	**$99.50**
			6+	**$88.75**

Water Stored Pressure Fire Extinguisher

Utilizes pressurized water to safely kill Class A type fires. Features an attractive stainless steel cylinder which is easy to maintain and service. **Note:** Water Stored Pressure extinguishers do not ship charged. Extinguisher must be filled and pressurized upon receipt by a qualified service technician. **Effective temperature range:** 40°F to 120°F.

Model 240/ 2-1/2 gal./Hose	8 lbs.	**85481**	**$143.50**
		6+	**$129.50**

	Model	Size	Type	UL Rated Coverage Ft.² A	B	C	Rating	Discharge Time	Range	Dimensions (H x W, Dia.)	Bracket Supplied
Dry Chemical	B417TM	2-1/2 lb.	Nozzle	1	10	10	A, B, C, Multi	10 sec.	9′-15′	14-5/8″ x 5-3/4″, 3″	Vehicle/Marine
	B500T	5 lb.	Hose	2	10	10	A, B, C, Multi	14 sec.	12′-18′	15-1/4″ x 7-1/4″, 4-1/4″	Wall*
	B456	10 lb.	Hose	4	60	60	A, B, C, Multi	20 sec.	15′-21′	20-1/2″ x 8-3/4″, 5″	Wall†
Water	240	2-1/2 gal.	Hose	2A			A	50 sec.	45′-55′	24-1/2″ x 9″, 7″	Wall

*Requires Model 821 Bracket for U.S.C.G. Approval. †Requires Model 809 Bracket for U.S.C.G. Approval.

A Extra Charge if Shipped by Air. See Shipping Information for details.
O Oversize. Ships at Oversize rate. See Shipping Information for details.

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Wick 375 2-Cycle Fire Pump
8466

Remote Fuel

Capable of moving water over long distances, the Wick 375 is the culmination of modern pump and engine design resulting in unsurpassed performance. The 10 HP, 210cc modern 2-stroke Solo engine, equipped with an electronic over-speed protection cut-out switch, is coupled to a detachable 4-stage foam-compatible pump using a one-piece stainless steel clamp.

Pump Type: Four stage detachable. **Maximum PSI:** 350. **Maximum Output:** 90gpm. **Priming Device:** 2″ male NPSH. **Outlet Size:** 1-1/2″ male NPSH. **Dimensions:** 22.75″L x 14.25″W x 14.25″H. **Weight:** 56 lbs.

Wick 375 2-Cycle Fire Pump - Remote Fuel	64 lbs.	**93793**	**$3545.00**

Wick 250 2-Cycle Fire Pump
8465

Remote Fuel

The Wick 250 is lightweight, very stable, economical and provides high performance! The 8 HP, 2-stroke engine provides abundant power and is coupled to a three-stage foam-compatible pump, which is sufficient for most fire fighting needs. Technical innovations include an electronic over-speed protection cut-out switch, plus an overall design for exceptional ease in maintenance.

Pump Type: Centrifugal single stage. **Maximum PSI:** 230. **Maximum Output:** 90gpm. **Priming Device:** 2″ male NPSH. **Outlet Size:** 1-1/2″ male NPSH. **Dimensions:** 15.3″L x 13″W x 12.5″H. **Weight:** 31 lbs.

Wick 250 2-Cycle Fire Pump - Remote Fuel	35 lbs.	**93792**	**$2567.00**

Wick 100-4H 4-Cycle Fire Pump
8464

NPSH Thread

This high performance unit is powered by a reliable 2.5 hp, 4-stroke Honda engine with an integral fuel tank and is coupled to a bolt-on detachable, single-stage foam-compatible pump by means of a centrifugal clutch. The unique clutch feature allows the engine to idle without engaging the pump, simplifying the manipulation of the hose and at the same time conserving water. Meets the emission standards of US EPA/CARB regulations.

Pump Type: Centrifugal single stage. **Maximum PSI:** 100. **Maximum Output:** 70gpm. **Priming Device:** 1-1/2″ male NPSH. **Outlet Size:** 1-1/2″ male NPSH. **Dimensions:** 14″L x 11″W x 16″H. **Weight:** 20.2 lbs.

Wick 100-4H 4-Cycle Fire Pump	24 lbs.	**93791**	**$1392.00**

Wick 80-4H 4-Cycle Fire Pump
8463

NPSH Thread

The 4-stroke, 1.5 hp Honda engine with an integral fuel tank produces a highly efficient power to weight ratio at very low noise levels. The unique clutch feature conserves energy by allowing the engine to idle without engaging the pump. Low fuel consumption, as well as the bolt-on detachable foam-compatible pump, also help make this unit a favorite in rapid attack and mop-up operations. Meets the emission standards of US EPA/CARB regulations.

Pump Type: Centrifugal single stage. **Maximum PSI:** 70. **Maximum Output:** 55gpm. **Priming Device:** 1-1/2″ male NPSH. **Outlet Size:** 1-1/2″ male NPSH. **Dimensions:** 14″L x 11″W x 11″H. **Weight:** 17.8 lbs.

Wick 80-4H 4-Cycle Fire Pump	19 lbs.	**93790**	**$1167.00**

Hydro-Wick Hand Primer
8513

This versatile hand primer is a quick and easy way to prime fire pumps. NPSH Fitting.

Hand Primer	1 lb.	**93814**	**$114.00**

Accessories For Wick 375 And Wick 250
8466, 8465

2″ High Pressure Suction Hose 11 lbs.	**93787**	**$206.25**
Foot Valve/Strainer 1 lb.	**93789**	**$78.95**
Back Board for 93793 with Carrying Straps 5 lbs.	**93802**	**$103.75**
Back Board with Carrying Straps for 93790, 93791, and 93792 4 lbs.	**93801**	**$73.95**
6.6 Gal. Fuel Tank 7 lbs.	**93811**	**$71.95**
Fuel Line for 93972 10 oz.	**93812**	**$47.00**
Fuel Line for 93793 14 oz.	**93813**	**$59.75**

Accessories For Wick 100-4H And Wick 80-4H
8463, 8464

1-1/2″ Plastic Suction Hose 5 lbs.	**93786**	**$66.25**
1-1/2″ Foot Valve/Strainer 2 lbs.	**93788**	**$103.00**
Back Board with Carrying Straps 4 lbs.	**93801**	**$73.95**

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1

1 Myti-flo® Hose
7258

Extremely lightweight and portable, this all synthetic hose is designed for packing into remote areas, mop-up, hoseline and fire pump location base protections. Precoupled in 50′ sections. 3/4″ GHT (Garden Hose Thread).

Hose Size: 3/4″. **Service/Burst Pressure:** 250 psi/750 psi. **Coil Diameter/50′:** 8″. **Weight/50′:** 1.7 lbs.

50′ Myti-Flo Hose	2 lbs.	**85453**	**$55.95**
		5+	**$52.95**
100′ Myti-Flo Hose	4 lbs.	**85454**	**$95.75**
		4+	**$91.50**

2

2 BoostLite Fire Hose
7257

Lightweight, 1″ Dia. reel hose is polyurethane lined using the Mertex® process for superior lining adhesion and lower friction loss. Other features include the heavy-duty spun yarn jacket that is non-collapsible and very kink resistant (kink diameter is less than 9″) and the yellow Permatek® exterior treatment which provides high visibility, high abrasion resistance, and resists UV, ozone and rot degradation.

100 ft. NH	O	24 lbs.	**85483**	**$407.75**
			2+	**$390.75**
100 ft. NP	O	24 lbs.	**85484**	**$407.75**
			2+	**$390.75**

3

3 Fire Boss® Fire Hose
8467

Tough spun polyester single jacket hose with yellow Permatek® treatment for increased abrasion-resistance, high visibility, and for reducing water absorption. Also features a Mertex® lining resulting in extremely low friction loss. Meets NFPA 1961 requirements. Available in 1″ or 1-1/2″ Diameter sizes with NPSH or NH Threads.

Service Pressure: 300 psi. **Proof Pressure:** 600 psi. **Burst Pressure:** 1,000 psi. **Coil Diameter/100′:** 16″ (41 cm).

Fire Hose	Thread NPSH	Thread NH	Weight	Each	4+
1″ x 100′	**85524**	**85526**	10 lbs.	**$163.25**	**$142.95**
1-1/2″ x 100′	**85525**	**85527**	14 lbs.	**$206.95**	**$181.75**

4

4 Timberline Firefighter's Clamp™
2104

Easy to use, won't damage hose!

This hose clamp provides complete shut-off in one step! Simply place the jaws of the clamp onto the hose, and squeeze the handles. The clamp will not damage hose, shuts off water at 300+ psi, and stays in place on the hose.

Model FF1-S – Shut-Off Clamp for Synthetic and Single Jacket Cotton Hoses up to 1-3/4″ dia.	2 lbs.	**85424**	**$213.75**
Hose Clamp Holster	6 oz.	**85452**	**$20.95**

5

5 Forest Fire Hose Shut-Off
4330

Made in USA

This lightweight hose clamp is used to momentarily shut off the water flow from a 1″ or 1-1/2″ single jacketed fire hose at pressures up to 200 PSI allowing you to change nozzle tips, nozzles, or add or replace fire hose. Convenient, it is small enough to be carried in your pocket. Made from tough aluminum alloy. 10″L. Made in the USA.

Forest Fire Hose Shut-Off	2 lbs.	**85462**	**$58.95**
		5+	**$53.95**

Collapsible Pail
3637

Round, collapsible pail made of vinyl-coated nylon scrim with a stiffened and reinforced top rim. High tensile strength and leakproof seams withstand up to 100 p.s.i. hydrostatic pressure. Meets NFES #0141.

Size: 9″ Dia. x 11″H. **Capacity:** 3 gallons. **Color:** Yellow.

Collapsible Pail 9 oz.	**83224**	**$13.95**
	5+	**$12.95**

O Ships at Oversize rate. See Shipping Information for details.

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Pistol Grip D Handle Shutoffs
7262

Constructed of high quality anodized aluminum with an acetal polymer ball and seat/seal mechanism. Designed to operate at up to 600 psi. 1.5″ female by 1.5″ male with a swivel female base and a pistol grip. Available with NH or NP threads.

1″, NP Threads	2 lbs.	**85539**	**$152.25**
		3+	**$148.25**
1″, NH Threads	1 lb.	**85540**	**$152.25**
		3+	**$148.25**
1.5″, NP Threads	2 lbs.	**85496**	**$166.25**
		3+	**$160.95**
1.5″, NH Threads	2 lbs.	**85492**	**$166.25**
		3+	**$160.95**

Shutoff Swivel
7724

1.0″ Female by 1.0″ male with a swivel female base. Constructed of hard anodized aluminum, polymer ball and seals, neoprene seals and stainless steel swivel bearings.

Shutoff Swivel, 1″ NP 1 lb.	**85537**	**$118.25**
Shutoff Swivel, 1″ NH 2 lbs.	**85538**	**$118.25**

Forestry Twin Tip Nozzle
7261

This firefighting nozzle is made from high-quality cast aluminum with stainless steel internal parts. It comes standard with a 3/16-inch Straight Stream Tip and a 3 GPM Spray Disc. The nozzle has a fog spray position, a straight stream position, and an off position. The straight stream tip threads are 3/4″ GHT (garden hose) sized. The 1-inch nozzle inlet threads are NP. Designed to meet or exceed U.S. Forest Service GSA standards (mil-I-45208).

Twin Tip Nozzle, NP Threads	2 lbs.	**85493**	**$218.95**
		2+	**$208.25**

Dual Range Nozzles
7260

Dual range nozzles engineered to deliver optimum flow.

Constructed of hard coated aluminum with brass and stainless steel internal components. A bumper provides protection and makes stream selection easy. The bumper is equipped with teeth which gives a more solid fog pattern than standard nozzles. Adjustable to straight stream, fog patterns, and to on/off position. Ideal for any application of 100gpm or less, including wildland firefighting, industrial fire protection, fire department use, and industrial wash down applications. Designed to meet or exceed U.S. Forest Service GSA standards (mil-I-45208).

3/4″ GHT Dual Range Nozzle

3/4″ GHT Dual Range Nozzle – Delivers optimum flow of 10-30 GPM.	13 oz.	**85501**	**$63.95**

1″ Dual Range Nozzles

1″ Dual Range Nozzle, NH Thread	12 oz.	**85535**	**$63.95**
1″ Dual Range Nozzle, NPThread	12 oz.	**85536**	**$63.95**

1.5″ Dual Range Nozzles

1.5″ Dual Range Nozzle, NH Threads – Delivers optimum flow of 20-90 GPM.	1 lb.	**85471**	**$82.25**
		4+	**$78.50**
1.5″ Dual Range Nozzle, NP Threads – Delivers optimum flow of 20-90 GPM.	13 oz.	**85476**	**$82.25**
		4+	**$78.50**

Constant Flow Nozzle
7259

Constant flow nozzles engineered to deliver an optimum flow of 30 GPM. Constructed of durable, hard coated aluminum with brass and stainless steel internal components. A bumper provides protection, makes stream selection easy, and is equipped with teeth which gives a more solid fog pattern than standard nozzles. Adjustable to straight stream, fog patterns, and to on/off position. Ideal for any application of 100gpm or less, including wildland fire fighting, industrial fire protection, fire department use, and industrial wash down applications. Designed to meet or exceed U.S. Forest Service GSA standards (mil-I-45208).

1″ Constant Nozzle, NH Threads	12 oz.	**85494**	**$67.25**
1″ Constant Nozzle, NP Threads	12 oz.	**85495**	**$67.25**
3/4″ GHT Constant Nozzle	14 oz.	**85500**	**$63.95**

Brass Adjustable Nozzle
7197

Heavy-duty, solid brass construction with four large openings at the nozzle tip for full flow. The precise tip angle eliminates side spray and it is adjustable from fine spray to needle stream to heavy rinse. Fast 3 turns from close to open. Replaceable front and rear O-ring seals for leakproof shut-off. 3/4″ GHT (garden hose) sized threads.

Brass Nozzle 5 oz.	**67728**	**$10.75**
	6+	**$9.95**

Gated Wye & Adapters
8468

Permits complete flow control when a hose line needs to be split into two lines or when two lines are combined into one hose line.

Gated Wye

1.5″ NPSH x 1.5″ NPSH 4 lbs.	**85528**	**$232.95**
1″ x 1″ NH 2 lbs.	**85533**	**$180.50**
	3+	**$171.95**
1″ x 1″ NPSH 2 lbs.	**85534**	**$189.75**
	3+	**$180.75**
1.5″ NH x 1″ NH 3 lbs.	**85542**	**$223.95**
New! 1.5″ NH x 1.5″ NH 4 lbs.	**85523**	**$232.95**

Aluminum Adapter

1.5″ NH to 1.5″ NPSH 4 oz.	**85529**	**$20.75**
	4+	**$19.75**
1.5″ NPSH Female to 1.5″ NH Male 4 oz.	**85530**	**$20.75**
	4+	**$19.75**
1″ NPSH Female to 0.75″ GHT Male 1 oz.	**85531**	**$19.50**
1.5″ NPSH Female to 0.75″ GHT Male 3 oz.	**85532**	**$19.50**

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SNAPTANK™ WESTERN SHELTER SYSTEMS

SnapTank™ Portable Water Tanks

2598

Easy to transport and set up!

The SnapTank can be assembled in less than four minutes without any tools! The tank conforms to uneven ground with no spill over and no rolling. Convenient liquid level marks are printed inside the heavy duty vinyl tank liner. The octagonal frame is constructed of durable aircraft quality aluminum and consists of eight vertical leg assemblies with sixteen snap-in support bars. The tank features a 3″ threaded flange with plug and a protective vinyl flap which covers the flange area. A vinyl field bag with zipper closure and side/end carry handles holds all of the tank components. Five tank capacities from which to choose.

Capacity (gal.)	Size (WxH)	Packed (LxWxH)	Weight	SN	Each
1,000	100″ x 33″	39″ x 16″ x 14″	67 lbs.	**93104**	**$1594.00**
1,500	136″ x 33″	49″ x 16″ x 14″	77 lbs.	**93105**	**$1731.00**
2,000	150″ x 33″	56″ x 16″ x 14″	85 lbs.	**93106**	**$1947.00**
2,500	169″ x 33″	63″ x 16″ x 14″	90 lbs.	**93107**	**$2172.00**
3,000	185″ x 33″	79″ x 16″ x 14″	107 lbs.	**93108**	**$2446.00**

DESKTOP. TABLET. MOBILE.
THE NEW FORESTRY-SUPPLIERS.COM

Husky® Collapsible Bladder Tanks

4729

Made of a 6.5 oz. XR-3 PW polyester material that is approved for potable water contact. Folds down to 18″ x 18″ and features a 10″ filling tube. Withstands hydrostatic pressure, mildew, rot, ozone, ultraviolet light, weathering, cracking, air contaminants and many chemicals. D-rings for anchoring on flat bed. Measure truck bed before ordering.

Thickness: 30 mils min. **Tear Strength:** 40/55 lbs. min. **Bursting Strength:** 750 lbs. min. **Puncture Resistance:** 275 lbs. min. **Discharge Nozzle:** 1.5″ NST.

525 Gallon Bladder Tank, 65″W x 98″L x 18″D	O	33 lbs.	**93187**	**$608.00**
800 Gallon Bladder Tank, 6′W x 10′L x 2′D	O	43 lbs.	**93188**	**$715.00**
1340 Gallon Bladder Tank, 7′W x 14′L x 2′D	O	120 lbs.	**93243**	**$1015.00**
Patch Kit for Bladder Tanks Includes 1′ x 9′ Roll of material, cement, scissors and a roller.		5 lbs.	**93192**	**$62.50**

O Ships at Oversize rate. See Shipping Information for details.

Fol-Da-Tank® Frameless Open Top Collapsible Water Tanks

4086

Ideal when quick access to water is needed and storage space is limited.

Lightweight yet durable, these collapsible water tanks are constructed of tough PVC chemical-resistant polyester material which has superior tear, abrasion, and puncture resistance. The tanks can serve as reservoirs, mixing tanks, or relay tanks. The high sidewalls can even accommodate helicopter bucketing. A foam collar allows a tank to be easily deployed and filled by one person. Each tank comes standard with a 2.5″ NST female flange. Carrying case included. Six sizes available. Repair kit available by special order. Call for details.

Capacity (gal.)	Dimensions	Collapsed Size		Weight	SN	Each
500	3′0″ x 5′0″ x 6′6″	24″ x 17″		57 lbs.	**93147**	**$638.00**
1,200	4′0″ x 7′0″ x 8′10″	26″ x 20″		68 lbs.	**93148**	**$913.00**
2,000	4′0″ x 7′5″ x 10′8″	26″ x 20″		88 lbs.	**93149**	**$1275.00**
2,500	4′0″ x 8′0″ x 12′6″	34″ x 22″	F	100 lbs.	**93150**	**$1453.00**
3,000	4′0″ x 9′10″ x 13′1″	34″ x 22″	F	110 lbs.	**93160**	**$1764.00**
4,000	4′0″ x 12′2″ x 16′10″	36″ x 24″	F	140 lbs.	**93161**	**$2035.00**

Note: Call our Bid and Contract Department at 800-752-8461 for a quote on large quantities.

F Ships Motor Freight. See Shipping Information for details.

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Forestry Suppliers 10 & 25 Gallon Firefighting Pumps

7440

The exclusive design of these fire pumps combines the simplicity of a manual pump with the convenience of an ATV sprayer system. Available in 10- or 25-gallon models, each has 15′ of reinforced 3/8″ hose, an Indian Fedco Smokechaser Pump, and convenient tank clips for easy storage and transportation. Plus, there's no power source required!

10-Gallon Firefighting Pump	O	12 lbs.	**85160**	**$148.75**
			2+	**$138.50**
25-Gallon Firefighting Pump	O	20 lbs.	**85170**	**$173.75**
			2+	**$163.50**

Scotty® Firefighter Water Vest & Hand Pump

8280

Ideal for transporting water to an incident scene, this 6-gallon capacity vest features a 2″ wide filler port for fast one-person filling and a standard 3/4″ garden hose thread outlet port for easy access by right- or left-handed users. The water fills in completely around the wearer. Three quick clips with adjustable straps across the chest keep the vest securely in place. Constructed from a reinforced polyester material, the high-visibility yellow vest is also UV-resistant. Water hand pump, 4′ hose, and fire pump repair kit included.

Scotty Firefighter Water Vest & Hand Pump	5 lbs.	**85180**	**$259.00**

Scotty® Firefighter Foam Forestry Pump and Back Pack

4228

Mix Class A foam straight out of the pump!

Features a foam educting attachment and air aspirating nozzle. Each time the pump is charged, 1% of foam concentrate is educted into the water and the nozzle generates foam when the pump is discharged. The brass pump chamber is protected by an engineering grade polymer sleeve and no tools are required to completely disassemble the unit. 2″ Wide shoulder straps have 3″ wide shoulder pads for comfort. **Capacity:** 5 US gallons. **Filling Port:** 4″ Diameter with a removable debris screen. **Hose:** 4′L.

Firefighter Foam Hand Pump and Back Pack	5 lbs.	**85150**	**$189.00**
		3+	**$175.00**

Hi-Combat Class A Fire Fighting Foam

4040

This versatile, synthetic fire fighting foam reduces the surface tension of water for increased penetrating power into Class A fires such as forest and wildland fires, structural fires, tire fires, and paper fires. The foaming agents provide a blanket of protection which clings to vertical surfaces, foliage, roof eaves, and shingles. The foam can be applied using a variety of methods, including conventional fog nozzles, air aspirating nozzles, fixed or rotary wing delivery systems, and compressed air foam systems (CAFS). The foam can be premixed with cold, fresh, brackish, or salt water. One 5 gallon pail produces 500 to 5,000 gallons of foam solution. Biodegrades quickly. Foam has USDA Forest Service approval, meets NFPA 298, and meets the criteria for use in ground apparatus, helicopter buckets, and fixed wing aircraft. **Storage temperature:** -50°F to 122°F (-46°C to 50°C). **Freeze point:** 5°F (-15°C).

Hi-Combat Class A Fire Fighting Foam, 5 Gallons	R	45 lbs.	**85421**	**$130.00**
			5+	**$118.00**
			20+	**$113.00**
			48+	**$108.00**

O Oversize. Ships at Oversize rate.
R Restricted. Hi-Combat cannot be sold internationally. Phos-Chek cannot be sold to Australia.

Phos-Chek® WD 881 Fire Fighting Foam Concentrate

3901

Class A

Quickly and effectively extinguishes structural, wildland, and industrial Class A type fires. By increasing the ability of water to penetrate deep-seated fuels, Phos-Chek WD 881 shortens the time firefighters are exposed to blazes, lessens property damage, and reduces total systems costs. Plus, Phos-Chek Class A foam concentrate does not have a flash point. Phos-Chek WD 881 meets three critical industry qualifications including approval by the USDA Forest Service for all methods of application including use in fixed tank helicopters, UL listing as a wetting agent at a low 0.25% use rate, and the absence of any EPA listed hazardous materials. Phos-Chek WD 881 is also readily biodegradable to ensure environmental safety. **Storage Temperature:** -50°F to 122°F (-46°C to 50°C). **Freeze Point:** 5°F (-15°C).

5-Gallon Bucket	R	46 lbs.	**85422**	**$123.75**
			5+	**$111.25**
			10+	**$105.95**
			48+	**$101.75**
Case of 36, 4 oz. Bottles	R	11 lbs.	**85522**	**$108.25**

Scotty® FoamFast™ 3/4″ Foam Applicator

7523

Attaches to a 3/4″ garden hose for deploying a foam surfactant/wetting agent onto a fire scene. Foam surfactants are used in fighting fires because they lower the water's surface tension, allowing it to spread and penetrate much easier. To operate, open the inlet side of the mixing chamber, insert a foam cartridge, reseal the inlet end cap, attach to a 3/4″ garden hose, and spray foam. Flows water at a rate of 3 gpm when attached to a standard 3/4″ garden hose line. Recommended for use with water pressures between 35 and 85 psi. Each cartridge (sold separately) is 100% biodegradable, non-toxic, and will last just under 1 hour at pressures between 65 and 70 psi.

FoamFast Foam Applicator	1 lb.	**85152**	**$117.00**
		3+	**$109.00**
Foam Cartridge; 3 pack, Cannot be sold to Australia	15 oz.	**85153**	**$43.50**
		3+	**$40.50**

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Made in USA

Indian Fedco 5-Gallon Poly Firefighting Pump
4660

Corrosion- and UV-resistant Poly tank will hold up to the harshest environments! Sturdy, black base has no drill holes (no possible leaks), providing a strong base for heavy use and abuse. The large handle at the top of the tank enables easy handling and provides storage for the FEDCO all-brass pump when not in use. The pump features a rubber overgrip on the elbow end. Other features of the sprayer include a 4″ filler opening and padded shoulder straps.

Indian Fedco Model FER501 5-Gallon Poly Firefighting Pump	11 lbs.	**85050**	**$136.95**
		3+	**$129.95**
		6+	**$116.95**
		20+	**$113.95**
Carry Rack for Poly Fire Pumps	2 lbs.	**85463**	**$41.25**

INDIAN FIRE PUMPS

Made in USA

Indian Chief 5-Gallon Heavy-Duty Nylon Fire Pump
7764

This FSS style fire pump features an easily replaceable, innerbag liner system that allows you to replace the inner liner in case of puncture in the field. The protective outer liner is made of nylon fabric and forms to your back for optimum comfort. Utility pouch on the outside of the bag holds an extra liner (included) and extra gear. Premium contoured harness straps with extra padding, an all-brass pump, and a 3″ fill port with easy quick connect. Bag is collapsible and rolls up for storage when not in use.

Indian 5-Gallon Heavy-Duty Nylon Fire Pump	7 lbs.	**85230**	**$178.50**
		3+	**$168.75**
		6+	**$164.95**
Replacement Liner	16 oz.	**85231**	**$26.50**
New! Female Quick Disconnect for Indian 5-Gallon Nylon Fire Pump	4 oz.	**85232**	**$10.95**

INDIAN FIRE PUMPS

Made in USA

Indian Smokechaser 5-Gallon Collapsible Backpack Firefighting Pump
1578

Features a heavy-duty, collapsible, five-gallon capacity yellow vinyl tank bag. Brass, hand-operated pump, 1/4″ I.D. hose, and padded shoulder straps. Weighs 4-1/2 lbs. empty.

Firefighting Pump with Standard Piston Pump Features a rubber overgrip on the elbow end.	6 lbs.	**85130**	**$158.25**
		3+	**$148.25**
		6+	**$135.95**
New! Firefighting Pump with Pistol Grip Pump	8 lbs.	**85155**	**$164.95**
		3+	**$154.50**
		6+	**$141.75**
Patch Kit, Contains 4 patches and 4 oz. glue applicator	7 oz.	**85464**	**$14.95**
Filler Neck Service Kit	7 oz.	**85159**	**$7.95**

INDIAN FIRE PUMPS

Indian 5-Gallon Backpack Firefighting Pumps
1579

Made in USA

Kidney-shaped water tank conforms comfortably to the shape of your back.

Five-gallon tank features baffle, outlet with filter screen at bottom, 1″ recessed bottom, and ventilated back rest. Slide action pump is operated by hand. Gasketed cam lock tank cap features a ventilation hole to prevent tank collapse, and is secured to the tank by a 4″ beaded chain. Combination nozzle allows quick change from spray to straight stream. Single-braided, flexible, oil-resistant hose, 1/2″ I.D., 30″ long. Carrying handle has clips for securing pump and holes for attaching removable, 1-3/4″ heavy-duty polypropylene shoulder straps. One strap has clip for attaching pump to your chest. **Net Weight:** Stainless – 12 lbs., 2 oz. Galvanized – 12 lbs., 5 oz.

Model 90G Galvanized Tank	12 lbs.	**85700**	**$182.75**
		3+	**$172.50**
		6+	**$156.25**
Model 90S Stainless Steel Tank	11 lbs.	**85701**	**$259.75**
		3+	**$238.25**
		6+	**$217.50**
Pocket Repair Kit for 85700 and 85701	9 oz.	**85415**	**$27.50**
Carrying Rack with Strap	3 lbs.	**85460**	**$44.50**

INDIAN FIRE PUMPS

Indian 5-Gallon Poly Backpack Firefighting Pump
4581

Made in USA

Designed to hold up to the harshest environments, the poly tank will not dent and is completely corrosion- and UV-resistant. Fabricated from 2 seamless brass cylinders with a guide bushing on the inner cylinder for bind-free operation. Can be serviced by hand for complete in-field maintenance. A combination nozzle allows the operator to change from straight stream to cone spray without any special tools. Other features include a 52″ oil-resistant hose for greater pump mobility, a molded base and handle to keep the unit comfortable and balanced, a large 4″ filler opening with drop-in filter screen for easy filling and cleaning, and removable, fully adjustable shoulder straps. Also features lumbar support and a waist belt for comfort and stability.

5-Gallon Indian Poly Tank	12 lbs.	**85110**	**$163.50**
		3+	**$152.75**
		6+	**$142.25**
Carry Rack for Poly Fire Pumps	2 lbs.	**85463**	**$41.25**

Wind Speed Meters
pages 504 thru 505

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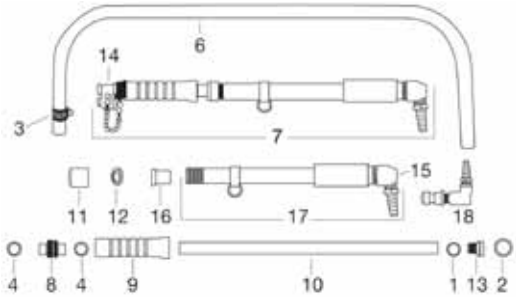
Replacement Parts for the Indian Smokechaser, Indian Chief, and the Indian Fedco Poly Firefighting Pumps

2318

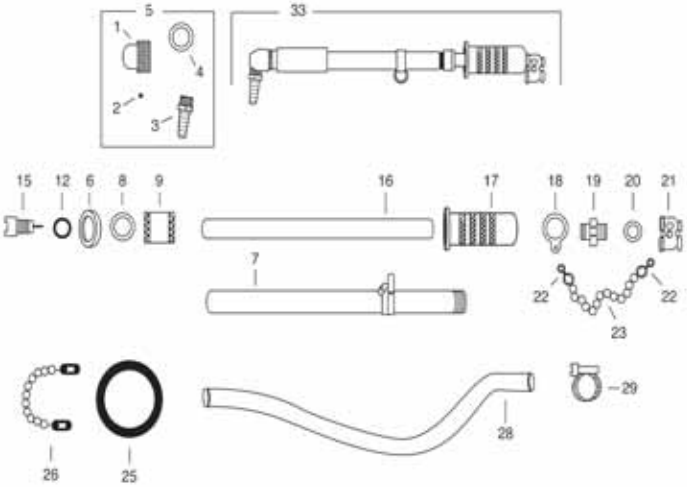


#	Description	Wt.	SN	$
1	"O" Ring	1 oz.	85128	$0.50
2	"O" Ring	1 oz.	85129	$0.65
3	1 Hose Clamp	1 oz.	13528	$1.00
4	Nozzle Gasket	1 oz.	85438	$0.75
6	3/8˝Hose only, less fittings	8 oz.	85132	$6.40
7	Slide Pump, complete with Twin Nozzle	2 lbs.	85133	$76.70
8	Nozzle Adapter	2 oz.	85134	$7.30
9	Hand Grip	7 oz.	85135	$12.50
10	Inner Pump Cylinder	7 oz.	85136	$10.95
11	Cap Nut	1 oz.	85137	$2.75
12	Felt Wiping Ring	1 oz.	85138	$0.60
13	Piston Assembly	1 oz.	85139	$5.95

#	Description	Wt.	SN	$
14	Twin Nozzle with Chain and Ring	4 oz.	85140	$15.95
15	Foot Valve Assembly	3 oz.	85141	$14.80
16	Nylon Bushing	1 oz.	85142	$2.50
17	Outer Cylinder Assembly	14 oz.	85143	$34.60
18	Hose Connector	2 oz.	85144	$6.25
	Replacement Metal Cap for Old Style Bag	5 oz.	85131	$14.95
	Replacement Plastic Cap and O-Ring for New Style Bag	3 oz.	85171	$1.90
	Plastic Cap for Poly Tanks	3 oz.	13393	$6.95
	Deluxe Padded Carrying Straps, Pair, For 85130 and 85050	7 oz.	85169	$19.95
	Bag with Handle, Plastic Cap, & O-Ring	3 lbs.	85147	$89.95

Replacement Parts for Indian Backpack Firefighting Pumps & 5-Gallon Indian Poly Tank Firefighting Pump

1576



#	Description	Wt.	SN	$
1	Pump Base, Brass	6 oz.	85406	$15.00
2	Check Ball	1 oz.	85408	$0.65
3	Hose Nipple, Brass	1 oz.	85409	$2.55
4	Gasket	1 oz.	85411	$1.25
5	Pump Base Assy., Brass	6 oz.	85412	$21.95
6	Guide Ring, Brass	1 oz.	85414	$4.25
7	Pump Cylinder, Brass	14 oz.	85416	$22.75
8	"U" Ring	1 oz.	85418	$1.15
9	Gland Nut, Brass	2 oz.	85419	$8.75
12	"O" Ring	1 oz.	85425	$0.75
15	Check Valve Assembly, Brass	3 oz.	85428	$15.45
16	Pump Piston Tube, Brass	8 oz.	85430	$12.25
17	Pump Handle, Brass	6 oz.	85432	$18.40
18	Tear Drop Ring	1 oz.	85434	$3.00

#	Description	Wt.	SN	$
19	Nozzle Bushing, Brass	2 oz.	85436	$5.50
20	Nozzle Gasket	1 oz.	85438	$0.75
21	Dual Nozzle, Brass	3 oz.	85439	$13.95
22	Split Ring	1 oz.	85441	$0.60
23	Beaded Chain for Nozzle	1 oz.	85443	$3.40
25	Tank Cap Gasket for Metal Cap	1 oz.	85447	$2.50
26	Tank Cap Chain	1 oz.	85448	$5.50
28	30˝Hose w/out Clamp, Red	8 oz.	85450	$5.00
28	48˝Hose w/out Clamp, Black	8 oz.	85132	$6.40
29	1 Hose Clamp	1 oz.	13528	$1.00
33	Brass Pump, complete	2 lbs.	85404	$110.00
	Tank Cap Assembly, Galvanized, For 85700 and 85701	5 oz.	85445	$13.95
	Plastic Cap for Poly Tanks	3 oz.	13393	$6.95

Foam Nozzle for Indian and Fedco Pumps

4582

This nozzle turns your Indian Fire Pump into a foaming fire pump! The air holes in the nozzle chamber create turbulence, turning the liquid concentrate mix in the tank to a foam which quickly extinguish fires. The durable, 6˝ nozzle adapts to any steel, poly or vinyl Indian backpack pump. For use with all foam surfactants.

Foam Nozzle	3 oz.	85111	$9.95
Phos-Chek W881 Fire FIghting Foam Concentrate, Case of 36, 4 oz. Bottles (for backpack pumps) Ⓡ	11 lbs.	85522	$108.25

Ⓡ Restricted. Cannot be sold to Korea or Australia.

Drench™ Firefighting Additive

6627

Outperforms most class "A" foams in regard to knockout times, water consumption, and heat dissipation – at 1/5 the cost!

Dramatically reduces extinguishing time of class "A" fires (i.e. wildland fires, brush fires and controlled burns). Penetration increased by 400%, friction loss reduced as much as 45%, and vaporization takes place twice as fast. Super-concentrated, you can either pour one 32-ounce bottle of Drench™ into one 500-gallon booster tank of water or add two ounces to one five-gallon backpack tank of water. No special equipment required.

Drench Firefighting Additive, 32 oz. Bottle 2 lbs.		85489	$19.95
	12+		$18.50

Forestry Suppliers Shoulder Saver Harness for Backpack Firefighting Pumps

4133

Distributes the weight evenly between your hips and shoulders!

Simply attach your pump with the metal clips. Other features include lumbar support, padded shoulder straps, chest strap to prevent falling off your shoulders and places on the belt for attaching A.L.I.C.E. clips found on protection shelters and other firefighting necessities. Waist, shoulder and chest straps are adjustable.

Forestry Suppliers Shoulder Saver Harness for Backpack Firefighting Pumps 1 lb.		85020	$48.50
	5+		$44.50

Note: Harness will not work with Foam Forestry Pump and Back Pack (85150).

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JIM + GEM

Wildland Fire Fuel Sizing Gauge
8687

Allows you to better predict wildland fire behavior by accurately gauging fuel types by size. Constructed of high grade aluminum with a 1/4″ slot for 1-hour fuels, a 1″ slot for 10-hour fuels, and a 3″ slot for 100-hour fuels. Also features a 4.5″ etched scale and a lanyard attachment point.

Wildland Fire Fuel Sizing Gauge	2 oz.	**89012**	**$14.95**
		10+	**$13.75**

5 Manufacturer's Warranty 5 Year

Kestrel

Kestrel® 3000 Pocket Weather Station
6566

Measures wind speed, temperature, wind chill, relative humidity, heat index and dew point temperature.

Tracks maximum and average wind speeds along with current readings. Displays wind speed in knots, meters per second, kilometers per hour, miles per hour, feet per minute or Beaufort force. Temperature, wind chill, heat index and dew point temperature can be displayed in °C or °F. Relative humidity is expressed as a percentage. Measuring modes and display units can be changed at any time and all functions are controlled with two buttons. A hard, slip-on ergonomic case protects the display, buttons and impeller. 5-year manufacturer's warranty. **Specifications can be found on page 505.**

Kestrel 3000	C	6 oz.	**89183**	**$149.00**
RH Calibration Kit		1 lb.	**89188**	**$64.00**
Case		3 oz.	**89198**	**$15.00**
Replacement Impeller		1 oz.	**89181**	**$15.00**
CR2032, 3V Lithium Battery, single		1 oz.	**02190**	**$3.50**

Superior Smoke Generators And Signals
6206

White to gray colored smoke. High obscuring power. Applications include emergency signalling, air-flow studies, leak detection, fire-training, photography, and game management. **Note:** Use with caution.

One-Minute Smoke Generator – Generates 8,000 cu. ft. of smoke; burns 60 seconds. Measures 1-1/2″ x 2″.			
Pack of 12	1 lb.	**85004**	**$51.95**
Three-Minute Smoke Generator – Generates 40,000 cu. ft. of smoke; burns 2 to 3 minutes. Measures 1-1/2″ x 6″.			
Pack of 12	4 lbs.	**85005**	**$94.95**

C Combination English and Metric

Fuel Moisture Scale
1554

Universal type, complies with U.S. Forest Service Spec. No. 461.

Measures fuel moisture content for fire danger rating, fire control and slash burning. 10″ x 13″. Sticks and support brackets sold separately.

Fuel Moisture Scale	3 lbs.	**89070**	**$290.00**
Ten-Hour Fuel Moisture Sticks	5 oz.	**89071**	**$24.95**
		10+	**$21.95**
Stick Support Brackets (2 required)	2 oz.	**89069**	**$13.25**

Campbell Scientific® DMM600 Duff Moisture Meter
2599

Developed in conjunction with the USDA-Forest Service, this portable meter provides fast, accurate measurement of the volumetric water content of duff (the fermentation and humus layers of organic forest floor material). Such measurements are useful because duff thickness and moisture content are the most important factors in determining duff consumption and soil heating during fires. Fire managers can improve estimates of duff remaining after a burn by measuring duff moisture content. This battery-powered sensor was developed using frequency domain reflectometry technology (FDR). The meter uses measurement methods which are sensitive to the dielectric properties of the material being measured. To take a measurement, place the duff sample in the meter's sample chamber and attach the lid. Turn the compression knob until an audible indicator alerts you that the sample has been compressed and measurement is complete. Total measurement time is approximately 30 seconds, and readings are displayed in real-time on the LCD readout. A sieve (included) helps to break up large fragments during sampling and improves measurement accuracy. The meter's standard calibration converts the output of the measurement circuit to volumetric water content. This factory-supplied calibration is derived from laboratory measurements of duff moisture content from eight different forested sites which include species such as lodgepole pine, ponderosa pine, spruce, alpine fir, Douglas fir, and larch. User-derived calibrations can also be used by downloading them with PCDMM software (included). This feature is ideal when testing atypical materials, as well as with known duff bulk density to convert the result to gravimetric water content. The meter comes complete with a carrying case, software, a 3″ diameter #4 mesh brass sieve, 6′ serial communications cable, screwdriver, and spare battery.

Accuracy: ±5% full scale range. **Resolution:** 1% volumetric water content. **Power:** 9V battery (included). **Measurements per battery:** >2,000. **Dimensions:** 3.5″ dia. x 10″L.

DMM600 Duff Moisture Meter	4 lbs.	**89026**	**$1950.00**

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Flir® E Series Thermal Imaging Cameras
8584

These infrared cameras utilize MSX® (Multi-Spectral Dynamic Imaging) technology to ensure extraordinary image detail! MSX technology adds visible spectrum definition to images by detecting the edges of objects and incorporating that detail in the thermal images. Text is even clearly visible within an infrared image, allowing you to read labels or identifiers. Simple to operate, the on-board 640 x 480 digital camera features a focus-free lens, a 3″ color LCD, and easy button navigation to on-screen settings. You can view thermal, visual, and MSX images, all of which can be simultaneously stored for further analysis. Includes power supply/charger with four plugs, rechargeable battery, Flir Tools software, USB cable, and hard transport case. Two-year warranty on camera, five-year warranty on battery, and ten-year warranty on detector.

Accuracy: ±2% or 2°C. **Emissivity Correction:** Variable from 0.1 to 1.0. **Temperature Range:** -4°F to 482°F (-20°C to 250°C). **Battery Type:** Li-Ion. **Battery Life:** 4 hours. **Weight:** 1.27 lbs.

E4 Thermal Imaging Camera – Pixels: 4,800 (80 x 60). Thermal Sensitivity: <0.15°C. Measurement Modes: Spot (center) mode. Ⓡ	7 lbs.	**89260**	**$995.00**

Ⓡ Cannot be sold internationally

Rite in the Rain® Fire Investigation Field Notebook
7522

This 5-1/2″ x 8-1/2″ notebook contains a full Fire Investigation Field Report Notebook. Regardless of the weather, you'll be able to collect all your vital data. Stapled bound with a Rite in the Rain tagboard cover. 52 Pages.

Fire Investigation Field Notebook	4 oz.	**49263**	**$5.50**
		12+	**$4.95**

Rite in the Rain® Fire Incident Report Notebook
7521

Designed to assist first responders in collecting fire scene data and help determine whether the fire is suspected of being criminal. 50 sheets (100 pages) of a Fire Incident Report form. Top spiral binding. Polydura cover. 3″ x 5″.

No. 125, Fire Incident Report Notebook	2 oz.	**49262**	**$4.45**
		12+	**$4.05**

Rite in the Rain® Incident Command System Unit Log Notebook
4093

This notebook contains 16 sets of two-paged ICS (Incident Command System) forms on Rite in the Rain all-weather paper. 4-5/8″ x 6-5/8″ spiral notebook.

No. 214, Incident Command System Unit Log Notebook	4 oz.	**49260**	**$9.95**
		12+	**$8.95**

Rite in the Rain® LCES Shirt Pocket Notebook
8143

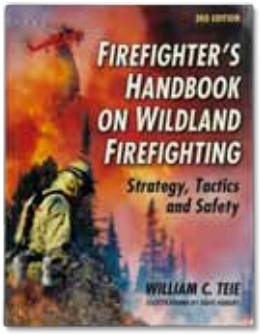
Designed especially for wildland firefighters, this 3″ x 5″ shirt pocket notebook features the LCES logo on the front cover and the "18" and "10" on the inside of the front cover. 50 sheets of universal pattern paper.

No. X-461, LCES Shirt Pocket Notebook	2 oz.	**49261**	**$4.80**
		12+	**$3.95**

Firefighter's Handbook on Wildland Firefighting, 3rd Edition
4347

Third Edition. Written by William C. Teie. This completely revised edition contains more than 200 pages of new stuff including a chapter covering the "realities" of firefighting, over 740 color pictures or graphics, over 120 "Jake-isms", and it is all in full color! Topics include wildland fire behavior, fireline safety, fire weather, topography and fuels, fire prevention, fire extinguishment methods, initial attack strategy and tactics, incident command system, fireground communications, use of firefighting resources, firefighting realities, firefighting situations, map reading, hazardous materials recognition, use and care of hand tools, an incident organizer and urban/wildland firefighting strategies. Softcover. 544 Pages.

Firefighter's Handbook on Wildland Firefighting, 3rd Edition	4 lbs.	**59745**	**$57.95**



JIM-GEM® Fire Weather Instrument Kit
1545

Includes wind meter that measures up to 60 mph, compass graduated 0-360° (Azimuth) for wind direction and fire location, sling psychrometer and psychrometer slide rule for wet and dry bulb temperature (30°F to 110°F), water bottle for wet bulb, 100 page notebook for recording data, mechanical pencil, and belt-worn carrying case.

JIM-GEM Fire Weather Instrument Kit 1 lb.		**89088**	**$126.25**
		5+	**$106.25**
Carrying Case 3 oz.		**89289**	**$20.95**
Dwyer Hand-Held Wind Meter, English Model 3 oz.	Ⓔ	**89001**	**$23.50**
		10+	**$21.25**
Dwyer Hand-Held Wind Meter, Metric Model 3 oz.	Ⓜ	**89000**	**$23.50**
		10+	**$21.25**
Suunto Smoke Killer II 2 oz.	Ⓔ	**37153**	**$17.95**
Psychrometric Slide Rule 1 oz.	Ⓔ	**89197**	**$11.75**
Water Bottle 1 oz.		**89295**	**$2.05**
Notebook 5 oz.		**89294**	**$8.95**
Mechanical Pencil 1 oz.		**89296**	**$2.25**
Forestry Suppliers Non-Mercury Pocket Sling Psychrometer, 30°F to 110°F in 1° divisions 6 oz.	Ⓔ	**89080**	**$56.25**
		5+	**$50.75**

Ⓔ English
Ⓜ Metric

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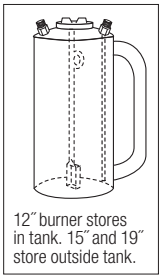
Truck Bracket

Foxfire Trail-Blazer ATV Drip Torch page 152


12″ burner stores in tank. 15″ and 19″ store outside tank.

SURE SEAL

Forestry Suppliers Sure-Seal™ Double-Bottom Drip Torch

1580

Classic Sure-Seal Drip Torch

"Big Mouth" design for easier filling. A fuel trap on the spout and a check valve in the cover prevent flashback into tank. Breather valve, oilproof gaskets and sealed outlets prevent spills and fuel-slopping. Heavy-duty 15-gauge aluminum canister with welded double-bottom for extra-long life. Full-length handle. Meets D.O.T. approval for transport of flammable fuel UN# 1B1-Y-150.

Height: 25-1/2″ high in the operating position; 14″ high in the sealed position. **Capacity:** 1-1/4 U.S. gallons. **Weight (empty):** 5 lbs., 6 oz.

Drip Torch	5 lbs.	**85022**	**$134.95**
		5+	**$130.95**
		10+	**$124.50**
Mounting Bracket	3 lbs.	**85051**	**$57.25**

For professional use only. Training and fuel selection are the sole responsibility of the user.

OSHA-Compliant Sure-Seal Drip Torch

Painted red to comply with OSHA regulations 29 CFR 1910.144, meets USDA Spec 5100-614 and is USFS approved.

OSHA-Compliant Red Drip Torch	5 lbs.	**85066**	**$145.00**
		5+	**$139.50**
Mounting Bracket	3 lbs.	**85051**	**$57.25**

For professional use only. Training and fuel selection are the sole responsibility of the user.

All Torches on This Page Meet D.O.T. Approval for Transport of Flammable Fuel.

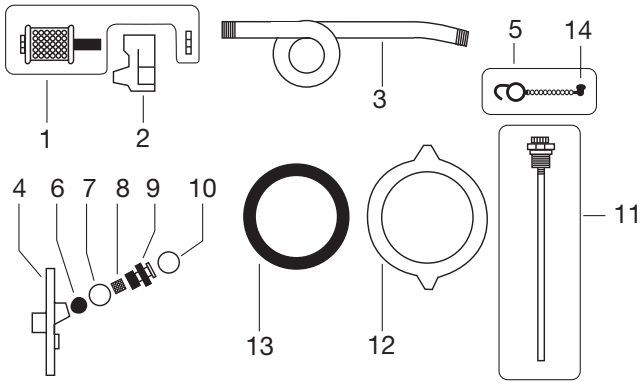
Prescribed Burn Flexible Mesh Signs page 578

Panama Stainless Steel Wide Mouth Drip Torch

1585

Filler cap's recessed neoprene gasket prevents fuel leakage. Brass regulator valve controls fuel flow. Safety loop in burner prevents flashback. Uses diesel or stove oil. Stainless steel tank has 2-3/4″W easy-fill opening. Three burner lengths available. Streamlined burner assembly won't snag in bushes. Fiberglass wick. Meets D.O.T. approval for transport of flammable fuel UN# 1A1-Y-150. Optional Torch Holder bolts to pick-up bed, holds torch securely. **Capacity:** 1-3/8 gallons. **Empty weight:** 4 lbs.

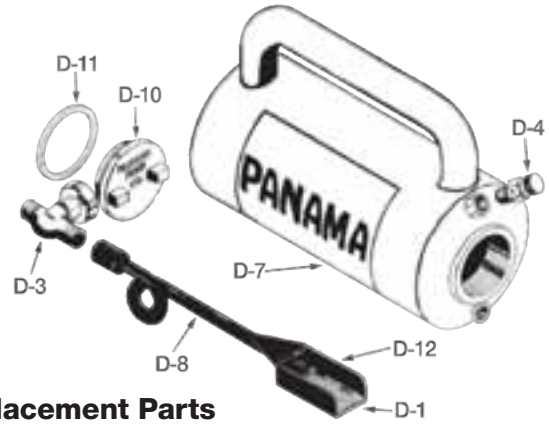
12″ Burner	7 lbs.	**85329**	**$275.00**
15″ Burner	7 lbs.	**85011**	**$275.00**
19″ Burner	6 lbs.	**85330**	**$275.00**
Torch Holder for Truck	4 lbs.	**85012**	**$77.75**



Replacement Parts For Sure Seal™ Drip Torches

1582

#	Description	Sure Seal Wt.	SN	$
1	Igniter Assembly	2 oz.	**85064**	**$20.75**
2	Nozzle/Igniter Mount	3 oz.	**85063**	**$15.50**
3	Spout with Fuel Trap	8 oz.	**85059**	**$25.95**
4	Tank Cover only	9 oz.	**85053**	**$40.25**
5	Chain Assembly	1 oz.	**85058**	**$4.20**
6	Check Valve Ball	1 oz.	**85054**	**$2.30**
7	Check Valve Seat	1 oz.	**85055**	**$3.60**
8	Check Valve Screen	1 oz.	**85056**	**$2.20**
9	Discharge Plug	1 oz.	**85057**	**$8.15**
10	O-Ring for Discharge Plug	1 oz.	**85065**	**$1.80**
11	Breather Valve Assembly	1 oz.	**85062**	**$26.70**
12	Lock Ring	8 oz.	**85061**	**$23.10**
13	Collar Gasket	1 oz.	**85060**	**$3.65**



Replacement Parts for Panama Drip Torch

1584

#	Description	Wt.	SN	$
D-1	Burner Wick with staples	1 oz.	**85337**	**$11.40**
D-8	12″ Burner and Nozzle	9 oz.	**85336**	**$63.25**
D-2	15″ Burner and Nozzle	10 oz.	**85363**	**$63.50**
D-9	19″ Burner and Nozzle	11 oz.	**85335**	**$63.25**
D-3	Oxygen-Type Regulator Valve	4 oz.	**85331**	**$35.95**
D-10	Wide Mouth 2-1/4″ Filler Cap	5 oz.	**85334**	**$53.75**
D-11	Gasket for wide mouth filler cap, 2-1/8″ I.D.	1 oz.	**85333**	**$6.25**
D-4	Vent Valve	2 oz.	**85347**	**$30.25**
D-12	Removable Nozzle	1 oz.	**85364**	**$8.20**

Note: Parts are still available for Wildfire Drip Torches on our website.

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SURE SEAL

Forestry Suppliers Sure-Seal™ Fuel Bottle Drip Torch

3798

Lightweight tagalong for Hot Shots turns any 30 oz. fuel bottle into an instant drip torch

Lightweight and compact, the Sure Seal fuel bottle drip torch fits easily into most packs and turns any 30 oz. fuel bottle into an instant drip torch. Just add 2 ounces of bar/chain oil to one 30 oz. bottle of chainsaw fuel; attach the torch assembly to the bottle adapter and screw it onto the fuel bottle. Accepts oil/gasoline mixtures (as prescribed in instructions) or other standard fuel mixtures for drip torch applications. Stores safely inside a rugged PVC tube for protection in the field. **Fuel bottle sold separately.**

Fuel Bottle Drip Torch	1 lb.	**85026**	**$89.95**
		5+	**$84.50**
30 oz. Fuel Bottle, 10˝H x 2-3/4˝ dia.	8 oz.	**35409**	**$21.95**
Replacement Wick	1 oz.	**85027**	**$13.75**
Replacement Spout	4 oz.	**85028**	**$26.75**
Replacement O Ring Set	1 oz.	**85029**	**$0.95**
Replacement Breather Valve	1 oz.	**85031**	**$17.25**

Forest Fire Torch

1586

Fusee

For setting backfires or prescribed burns. Projects a 4˝ flame. Burns for ten minutes minimum. 14-1/4˝L x 7/8˝ diameter with tin ferrule for attaching to a stick. Self-contained friction cap provides instant ignition. Complies with USFS Specification 360A. Waterproof coating. Case of 72.

Forest Fire Torch (H)	36 lbs.	**85009**	**$179.25**

(H) Hazardous Materials. Requires additional shipping charge. See Shipping Information for details.

MSR Fuel Bottles

1537

Features air-tight seal for longer fuel storage.

Constructed from impact-extruded aluminum with no seams or welds, these fuel bottles resist cracks, leaks, and bulging when pressurized. Threads machined into neck ensure a longer lasting seal. Holes in the shaft of the bottle cap allow measured flow and prevent messy spills.

20 oz. Fuel Bottle, 9˝H x 2-3/4˝ dia. 6 oz.	**35408**	**$19.95**
30 oz. Fuel Bottle, 10˝H x 2-3/4˝ dia. 8 oz.	**35409**	**$21.95**
Belt Pouch, Cordura – Holds two 20 oz. Fuel Bottles, 5-1/2˝ x 10˝ x 3-1/2˝ 3 oz.	**94055**	**$11.25**

Panama Backpack Drip Torch

1588

Less fatiguing than traditional drip torches!

The 1-1/2 gallon cylindrical steel tank is supported by 1-1/2˝ wide adjustable straps. The 30˝ hose and 24˝ fire wand let you put fire where you want it. Fiberglass wick igniter. Streamlined burner assembly won't snag in bushes. Uses diesel or stove oil. Safety features include loop in fire wand to prevent flashback, filler cap with a no-leak seal, vent valve that prevents pressure build-up, and "anti-spill" tubing that directs fuel from the vent valve back into tank. Regulator valve controls fuel flow.

Panama Backpack Drip Torch	10 lbs.	**85362**	**$272.75**

Panama Flame Torch

1590

Convenient pistol-grip flame applicator.

Includes two-gallon pressure tank, internal pump, 43˝ hose, pistol-grip flame applicator with "on-off" trigger, extended nozzle and igniter-ring. Uses diesel fuel with gasoline or kerosene added. Flame projects approximately 8´ depending upon tank air pressure. Part of the fuel does not ignite until reaching the ground where it fires up the ground cover. No preheating of fuel necessary. Carrying strap included.

Tank capacity: two gallons. **Fuel capacity:** 1-3/4 gallons. **Operating pressure:** 75 to 200 psi. Tanks tested to 400 psi. **Empty weight:** 10-1/2 lbs.

Panama Flame Torch	12 lbs.	**83000**	**$525.00**
Wicking	1 oz.	**85327**	**$11.25**

Fuel Bottle Bag

4580

This blue nylon bag has the DOT flammable emblem on the sides and will hold 6 one-liter aluminum fuel bottles. Side cinches prevent the bottles from rattling. Meets Forest Service Spec 5100-613 and NFES #0536.

Fuel Bottle Bag 10 oz.		**35904**	**$14.95**
		4+	**$13.95**

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Backpack Flame Torch Kit
7194

Great for forest service, fire protection (setting backfires), farm, garden, and municipalities - this backpack torch kit is versatile and easy to use. The flame control squeeze valve also makes it perfect for spot weeding and instances where full flame is not continuously required. Other features include a 5´ U.L. Listed LP gas hose, a flame adjusting needle valve, and a spark lighter. **Note:** CSA Certified for the United States and Canada on tank pressure and does not require the use of a regulator. Includes a 400,000 BTU torch, a durable back pack, and a 10 lb. cylinder.

Backpack Flame Torch Kit	O	27 lbs.	**85096**	**$299.00**

Propane Torch
1589

Attaches to any size LP cylinder to perform a variety of jobs.

Burn weeds, ignite brush piles and disinfect and sterilize feed trays or animal quarters. Also use to dry out buildings, clean out ditches, destroy insect pests and incinerate refuse. Flame guns and torches can even be used to crack rocks, preheat engines and thaw pipes.

500,000 BTU capacity. P.O.L. safety fitting cuts off gas if hose fails or other malfunction occurs. UL® approved propane hose for continuous use at 350 psi (tested to 1,750 psi). Operates on tank pressure. Regulator (not included) can be used to lower pressure. Kit contains torch, 10´ of hose, flame adjusting valve, P.O.L. safety fitting, thread compound. Propane tank not included.

Propane Torch	4 lbs.	**85094**	**$86.95**
Cylinder Dolly, 20-40 lbs.	14 lbs.	**85095**	**$58.75**

Foxfire Trail-Blazer ATV Drip Torch
1587

Allows one person to perform controlled burning of up to 300 acres daily!

Designed for ATV use, this 10-gallon drip torch has a 12V fuel pump. The torch can project a 2´ to 8´ flame. The torch arm locks into place in five different positions and releases if it strikes an object. Safety features include two cut-off valves, mounted fire extinguisher, brush guards, and internal baffles. Available in heavy-duty steel or lightweight aircraft-grade aluminum. Unit may be mounted on any stable, off-road vehicle or tractor equipped with a 12V electrical system. **Dimensions:** 12˝H x 10˝W x 32˝L.

Aluminum	O	41 lb.	**85000**	**$2388.00**
Steel	O	64 lbs.	**85006**	**$2170.00**
Replacement Wick/Burner Tube		14 oz.	**85001**	**$98.50**
Optional Rack and Bracket for Hand-held Drip Torch		2 lbs.	**85002**	**$84.75**
Optional Quick Release Mounting Bracket for 85000		3 lbs.	**85003**	**$75.95**
Optional Quick Release Mounting Bracket for 85006		3 lbs.	**85008**	**$75.95**

Torch Rider Rx 41
7849

Allows you to safely perform prescribed burning from an ATV or UTV with less fatigue and more acres burned per hour with lower overall costs! TorchRider provides a secure mount for the drip torch (requires drip torch mounting bracket sold separately), allowing the ATV or UTV to be operated with two hands. With the throw of a lever, fire is put on the ground where and when needed. Steel construction. Mounting hardware for attaching to ATV is included. Optional UTV Mounting Bracket sold separately.

TorchRider Rx 41	23 lbs.	**84974**	**$525.00**
New! Torch Rider UTV Mounting Bracket	9 lbs.	**84973**	**$135.00**
Mounting Bracket	3 lbs.	**85051**	**$57.25**

O Oversize. Ships at Oversize rate. See Shipping Information for details.

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Council Combination Pick/Shovel Combi-Tool
4346

Versatile, this combination tool can be used as a shovel/pick, a shovel only, or pick only to construct fire lines, help control burn operations, and construct or repair trails. Shovel end's cutting edge can also cut light brush. 42″ Ash Handle. Meets USFS specifications.

Council Combination Pick/Shovel	5 lbs.	**85280**	**$97.75**
	6+		**$89.95**

BFG Firefighting Shovel
1566

Carbon steel blade is 10-7/8″ long, 8-7/8″ wide. Sharpened on all edges. 41″ Ash handle with solid shank. **Overall length:** 51-7/8″.

BFG Firefighting Shovel	5 lbs.	**85100**	**$55.25**
	6+		**$52.25**

SLO Firefighting Shovel
1565

High carbon steel blade is 7-1/4″ x 10″ with round point. 43-1/4″ Ash handle. **Overall length:** 50-1/2″.

SLO Firefighting Shovel	O	3 lbs.	**85099**	**$29.25**
		6+		**$26.95**

Barco USFS Pulaski Axe
1571

Combination grub hoe/axe manufactured to USFS specifications. Designed for chopping, grubbing, and digging fire lines in brush-filled or rocky terrain. Drop forged, carbon steel, 4 lb. head prevents chipping and holds a sharp edge. 3′L Hickory handle.

USFS Pulaski Axe 6 lbs.		**85269**	**$71.50**
		6+	**$69.95**
		12+	**$67.75**
Leather Sheath 6 oz.		**85273**	**$19.50**
Replacement 3′L Hickory Handle 1 lb.		**85271**	**$10.50**

Council Pulaski-Forester Axe
1572

Combination axe and grub hoe for chopping, grubbing and digging fire lines in brushy, rocky terrain. 3-3/4 lb. Head. 36″ Wood handle.

Council Pulaski-Forester Axe 6 lbs.		**85270**	**$53.25**
		6+	**$50.50**
		12+	**$47.50**
Leather Sheath 6 oz.		**85273**	**$19.50**
Replacement Hickory Handle 2 lbs.		**33236**	**$14.50**

New! Council USFS Pulaski Axe with Sheath
4975

Axe/grub hoe combination for use in chopping, grubbing, and digging fire lines. 3.75 lb. forged steel head coated with black enamel. Cutting edges coated in clear lacquer to deter rust. Includes plastic sheath. Meets USFS Specification 5100-355E and GSA Specification for NSN# 5120-00-293-3467. 36″ Top-grade American hickory handle.

Council USFS Pulaski Axe with Sheath 6 lbs.		**85274**	**$79.95**
		6+	**$77.25**
		12+	**$74.75**

Snow & Nealley

Snow & Nealley Pulaski Axe
4763

This versatile axe was ground to produce a finely honed edge and tempered in the furnace for strength and durability. Great for general utility work. Manufactured with a 3-3/4 lb. head and a 34″ Hickory handle. Leather blade guard is included.

Snow & Nealley Pulaski Axe 5 lbs.		**33112**	**$78.50**

AccuSharp® Knife and Tool Sharpener page 707

Nicholson® Mill Bastard File page 224

O Oversize. Ships at Oversize rate. See Shipping Information for details.

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Prohoe Rogue Hoes
2101

These heavy-duty hoes are perfect for clearing fire lines. The sharp head cuts trees up to 1″ in diameter as well as large weeds. These versatile tools can also be used for breaking up sod, cultivating crops, and other garden work. The ferrule is welded directly to the head, and a rivet and adhesive in addition to a pressure fit secure the handle to the head.

Prohoe Triangle Head Rogue Hoes
3817

Designed for digging handlines, this hoe features a 5-1/2″ head with a 1″ rear pick on your choice of 42″ wood or 42″ fiberglass handle. Prohoe's legendary tempered steel blade stands up to the toughest use, and a 6″ metal ferrule guards against over-strikes.

Prohoe Triangle Head Rogue Hoes with 40″ Curved Hickory Handle
3817

Designed for fireline use and digging embers, this Rogue Hoe a a 6″ head with a 2″ cutting spike on a 40″ curved Hickory handle. Prohoe's legendary tempered steel blade stands up to the toughest use, and a 6″ metal ferrule guards against over-strikes.

	Blade Head								
Handle	5-1/2″W	7″W	—	Rear Pick		Weight	Each	6+	12+
60″ Wood	**85106**			—	X	4 lbs.	**$33.50**	**$31.25**	**$30.25**
		85105			O	4 lbs.	**$33.50**	**$31.25**	**$30.25**
54″ Fiberglass	**85114**	**85113**		—		4 lbs.	**$45.75**	**$43.25**	**$40.50**
Handle	**7″ Flat**	**7″ Curved**	**8-1/2 Curved**	**Rear Pick**		**Weight**	**Each**	**6+**	**12+**
40″L Curved Hickory	**85182**	**85181**		—		5 lbs.	**$44.25**	**$41.95**	**$38.95**
			85184			6 lbs.	**$55.25**	**$51.75**	**$50.25**
	Triangle Head								
Handle	5-1/2″	6″	—	Rear Pick		Weight	Each	6+	12+
42″ Wood Handle	**85107**			1″		3 lbs.	**$38.75**	**$36.50**	**$34.50**
42″ Fiberglass Handle	**85112**			1″		4 lbs.	**$43.50**	**$41.25**	**$38.25**
40″ Curved Hickory Handle		**85183**		2″		5 lbs.	**$44.25**	**$41.95**	**$38.95**

Prohoe Polaski
4780

Designed for the wildland firefighter, this pulaski-style tool is built tough to stand up to rigorous field use. The head includes a 5.5″ rogue hoe on one end with a 4.5″ axe on the other. Prohoe's legendary, tempered steel blade stands up to the toughest use and features a 3.5″ metal ferrule to guard against over-strikes.

Prohoe Polaski, 40″ Hickory Handle	6 lbs.	**85178**	**$76.75**

Prohoe No-Break Rake
7952

This 11 inch wide "No Break Rake" features seven 2-1/2″ tines that can be used to move debris away from the fire line, or to pull soil over burning material. Prohoe's legendary tempered steel blades stand up to the toughest use, and a 6″ metal ferrule guards against over-strikes.

60″ Wood Handle	X	5 lbs.	**85161**	**$56.95**
			6+	**$52.75**
			12+	**$48.75**
60″ Fiberglass Handle	O	5 lbs.	**85162**	**$63.50**
			6+	**$59.25**
			12+	**$55.50**

Prohoe Rogue Hoe with Rake Teeth
7656

This combination hoe/rake is ideal for use in wildland firefighting and trail building. The hoe features a 7″ cutting edge, and the five rake teeth are 2-1/4″ long each. The hardened steel blade stays sharp and withstands rugged use in the field.

Prohoe Rogue Hoe with Rake Teeth, 40″ Curved Wood Handle		5 lbs.	**85165**	**$56.95**
			6+	**$52.75**
			12+	**$48.75**
Prohoe Rogue Hoe with Rake Teeth, 48″ Wood Handle	O	5 lbs.	**85166**	**$56.25**
			6+	**$52.25**
			12+	**$48.25**
Prohoe Rogue Hoe with Rake Teeth, 54″ Wood Handle	O	5 lbs.	**85168**	**$56.25**
			6+	**$52.25**
			12+	**$48.25**

O Oversize. Ships UPS 30 lb. rate. See Shipping Information for details.
X Oversize. Ships UPS 70 lb. rate. See Shipping Information for details.

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J.R. Fire Tools
2789

Custom designed by a professional wildland Fire Captain with nearly 20 years of experience! These patent-pending wildland firefighting tools meet U.S.F.S, Cal-Fire and B.L.M. specifications and provide unique, specific functions that no other hand tools offer. Featuring large heads with 3 sharpened sides, these heads are created with a special heat-treating process that makes them superior to other hand tools. Heads are interchangeable. Handles with universal neck must be ordered separately. Bolt packs are included with each handle.

Chingadera Scraping Tool

Excellent for grubbing, moving large amounts of debris, and extracting deep rooted fuels. 9-1/4″ Wide cupped head with square back that prevents debris loss. Head is 8-1/2″ Tall, with 7″ of digging depth for creating deeper trenches to stop rolling embers. Blade-to-ground surface is flat for maximum contact.

Chingadera Head	3 lbs.	**85302**	**$55.50**

Scalper Tool

Great for moving moderate to large amounts of material with every swipe. Use the side to chop small stobs and plants. Curved blade provides true 10-1/4″ ground-to-blade contact (11-1/4″ overall width). 11-1/4″ Tall blade for 5″ of digging depth. Four tines with indents help to move large debris piles.

Scalper Head	3 lbs.	**85303**	**$55.50**

Handles with Universal Neck

Handles compatible with all tool heads. Bolt packs included.

40″ Curved with Universal Neck	3 lbs.	**85300**	**$44.50**
48″ Straight with Universal Neck	3 lbs.	**85301**	**$41.50**

Big Foot Tool

Wide head, great for moving large amounts of material with every swipe and it cuts grass easily. Great for deep rooted material, you can also use the side to chop small stobs and plants. Features a 12″W x 8″ Tall cupped head and provides 6-1/4″ of digging depth.

Big Foot Head	2 lbs.	**85306**	**$55.50**

Broken-Back McLeod Tool

This wide, curved, sharp head makes it excellent for mowing large amounts of grass with little effort. It works in both soft and hard top soils. Provides you with true 10-1/2″ ground-to-blade contact (11″ overall width). The blade is 9-1/4″ Tall with 4″ of digging depth.

Broken-Back McLeod Head	3 lbs.	**85305**	**$55.50**

MAX Multi-Purpose Axe
1568

Seven tools in one!

Incorporates seven basic hand tools into one compact, versatile unit: A Hudson Bay style axe head permanently attached to a 36″ Fiberglass handle, with six quick-attach tools: shovel, mattock, pick, broad pick, fire rake and hoe. Each component slips into a specially designed socket on the axe head and is secured by either a hitch pin or thumbscrew tightener. All components are drop-forged from high quality steel and fit into a compact olive drab canvas case that can be carried on a belt or strapped to a pack. Weighs only 12-1/2 lbs. Comes complete with all tool attachments, thumbscrew tightener, six safety hitch pins, leather axe sheath, canvas bag and heavy-duty cardboard storage box. Replacement parts available. Call for details.

MAX Multi-Purpose Axe	14 lbs.	**33187**	**$281.50**
		4+	**$264.75**

Hazel Hoe
1600

Head only. Handle sold separately.

Heavy-duty scalping hoe. Adze-eye with 6″ wide blade. Hoe and handle sold separately.

Hazel Hoe Head only.	3 lbs.	**69057**	**$44.75**
32″ Curved Hardwood Handle	1 lb.	**69060**	**$16.95**

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Axes
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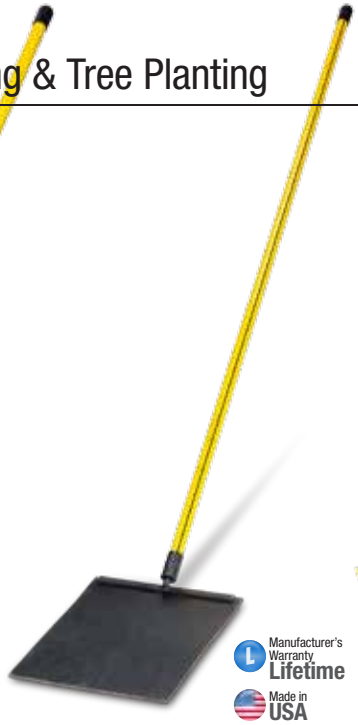
Manufacturer's Warranty Lifetime
Made in USA

Nupla Fire Rake

7433

Features four tempered steel blades securely riveted on an angle iron frame. Installed on a 60″ Nuplaglas® handle that takes in-field abuse better than a wood handle. Manufacturer's lifetime warranty. Made in USA.

Nupla Fire Rake 4 lbs.	X	85208	$54.50



Manufacturer's Warranty Lifetime
Made in USA

Nupla Fire Swatter

7434

This fire resistant Neoprene flap is useful for smothering grass, straw and small brush fires. 60″ Nuplaglas® fiberglass handle adds strength and durability, plus it is flame-resistant to 800 degrees Fahrenheit and resists heat to 250 degrees Fahrenheit. Manufacturer's lifetime warranty. Made in USA.

Nupla Fire Swatter 5 lbs.	X	85209	$80.75
		6+	$75.25

Manufacturer's Warranty Lifetime
Made in USA

Nupla McLeod Fire Tool

7435

Used by the U.S. Forest Service as a combination rake/hoe. 48″ Classic Nuplaglas® handle adds strength and durability, plus it is flame-resistant to 800 degrees Fahrenheit and resists heat to 250 degrees Fahrenheit. Manufacturer's lifetime warranty. Made in USA.

Nupla McLeod Fire Tool 5 lbs.	O	85210	$45.25

Manufacturer's Warranty Lifetime
Made in USA

Nupla Pulaski Axe

7432

The Classic Nuplaglas® handle exceeds all Federal standards, is flame resistant to 800 degrees Fahrenheit, resists heat to 250 degrees Fahrenheit, and is unaffected by sub zero temperatures. Safe to use even in wet conditions. The smooth, resin rich handle surfaces protect users from splinters and resist UV deterioration. The handles are unaffected by cuts, blows, moisture, or most industrial chemicals. 3.5 lb. head with 36″ Classic handle. Manufacturer's lifetime warranty. Made in USA.

Nupla Pulaski Axe 7 lbs.	85206	$56.50
	6+	$53.75
	12+	$51.25

ECHO

New! Echo® CS-590 Timber Wolf Chainsaw

4919

Setting a new standard for toughness, this rugged chainsaw features a professional-grade 59.8 cc two-stroke engine. The G-Force Engine Air Pre-Cleaner™ extends engine life by spinning out dirt, and the heavy-duty air filter is easily accessible. A side-access chain tensioner allows for quick adjustments. In addition, the chainsaw features a digital ignition system, a decompression valve, a spring anti-vibration system, a clutch-driven oiler, a dual-post chain brake system, and a translucent fuel tank.

Engine Size: 59.8 cc. **Weight:** 13.3 lbs. **Fuel Tank Capacity:** 21.8 oz. **Chain Oil Capacity:** 10.1 oz. **Warranty:** 5-Year Consumer; 1-Year Commercial.

Echo CS-590 Timber Wolf Chainsaw with 18″ Bar 20 lbs.	80135	$389.95
Echo CS-590 Timber Wolf Chainsaw with 20″ Bar 21 lbs.	80136	$399.95

ECHO

Echo® Gas-Powered Backpack Blower

7446

Comfortable operation coupled with a low noise performance of 65 dB(A) make this blower ideal for noise sensitive environments! The 25.4 cc Power Boost Vortex™ Engine Provides Plenty of Power, and the Posi-Loc™ System secures pipe connection. Other features include padded backrest and shoulder straps, variable speed throttle with cruise control, i-30™ Technology which reduces starting effort by 30%, and a 22.3 fl. oz. see-through fuel tank. Plus, it weighs only 13.3 lbs! **Noise Level (ANSI):** 65 dB.

Echo Model PB-265L Backpack Blower 17 lbs.	13178	$286.95

WEDCO Two-in-One Mix Gas/Bar Oil Container

6300

Made of high-density polyethylene for unlimited uses. Store two-cycle gas/oil mix in one side and chain bar oil in other side. Spouts meet CARB compliant standards and are child-resistant. UL® classified, MA Fire Marshall approved, and C.S.A. approved.

1-1/2 gal. (2-1/2 qt.) 2 lbs.	93260	$30.95
	6+	$28.95
	12+	$25.50

O Oversize. Ships UPS 30 lb. rate. See Shipping Information for details.
X Oversize. Ships UPS 70 lb. rate. See Shipping Information for details.

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Firebroom Rake
1570

For clearing fire lines of leaves, needles and other light ground litter. Constructed with 18 tines, made of high strength yet flexible 0.120″ oil tempered spring steel.

Model 11-18-12, 48″L Wood Handle, 12″ long tines	X	3 lbs.	**85216**	**$14.50**
			12+	**$13.25**
Model 11-18-16, 48″L Wood Handle, 16″ long tines	X	3 lbs.	**85215**	**$14.75**

Perfex Firefighting Broom
1564

Ideal for beating out flames in tall grass, sweeping/scraping duff, initial attack, controlling small "break-overs" and mop-up. Fire-resistant palmyra fibers riveted to steel cap. Hardwood handle, 10″ trim, 54″ overall.

Volunteer No. 1304	3 lbs.	**85217**	**$21.95**
		12+	**$20.75**

O Oversize. Ships at Oversize rate. See Shipping Information for details.
X Items 60″ or more require an additional handling charge.

Council Fire Swatter Flap
1569

Made in USA

For smothering fires in grass, straw and low weeds. 12″ Wide x 15″ long, fabric reinforced rubber flap. 5′ Handle. Made in USA.

Council Fire Swatter Flap	X	5 lbs.	**85093**	**$51.50**
			6+	**$46.50**
Replacement Flap		2 lbs.	**85098**	**$26.25**
Replacement Handle Only	X	2 lbs.	**85102**	**$22.25**

Council Fire Rake
1575

Made in USA

For raking fire lines to mineral soil, digging, rolling burning logs and cutting grass, small brush or saplings. 12″ Angle iron frame holds four tempered steel cutting teeth. Tapered eye holds 5′ wood handle.

Council Fire Rake	X	4 lbs.	**85207**	**$42.25**
			12+	**$39.25**
Head only		2 lbs.	**85089**	**$29.25**
Handle only	X	2 lbs.	**85090**	**$18.95**
Replacement Tooth with two rivets		4 oz.	**85091**	**$5.75**
Rivets, approximately 100 per box		1 lb.	**85092**	**$4.80**

JIM-GEM® Fyrake
1574

Made in USA

Exclusive design!

The USFS was so impressed by our design that they redesigned their own fire rake specs to conform to our high standards! This exclusive design (flattened shape of rake eye and handle end) prevents the rake head from twisting or turning on the handle while the rake is in use and ensures the grain of wood is aligned for maximum strength. Use to cut, dig, chop and rake a fire line free of debris. 12″ Wide, 2 lb. steel head with four heat-treated steel cutting teeth, 5′ handle. Slanted, contoured shape of rake head resists tangling in vines, brush, and briars.

JIM-GEM Fyrake	O	4 lbs.	**85211**	**$37.25**
			6+	**$34.25**
Head only with teeth assembled		2 lbs.	**85212**	**$23.25**
Handle only	X	2 lbs.	**85213**	**$17.25**
Replacement Tooth with two rivets		3 oz.	**85214**	**$1.95**
Rivets, approximately 100 per box		1 lb.	**85092**	**$4.80**

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USFS Spec McLeod Rake
1573

Made in USA

Meets U. S. Forest Service Specifications!

A combination heavy-duty rake and hoe for clearing a fire line in matted leaves and loose ground debris. Supplement with a pulaski in rocky or bushy terrain. Hoe edge is 9-3/4″ wide. Six rake teeth are 3-1/2″ long each. 4′ handle.

USFS Spec McLeod Rake	5 lbs.	**85272**	**$78.95**
		6+	**$76.95**

Corona® McLeod Long Handle Hoe/Rake
4331

Tempered tines for maximum strength and long service life. The 48″L American Ash wood handle enables upright stance, reducing back strain. Hoe edge is 9″ wide with six 3-3/5-inch long rake teeth. Ships unassembled.

McLeod Long Handle Hoe/Rake	6 lbs.	**85072**	**$54.95**
		6+	**$52.95**

Barnel® Telescoping Steel Rake
7449

Lightweight, aluminum rake adjusts from 3′ to 6′ thanks to the telescoping handle. Spring steel tines have an adjustable spread from 7-1/2″ to 22″. Super strong CAM-lock design allows for angling of tines.

Telescoping Rake	2 lbs.	**33850**	**$20.75**
		6+	**$18.95**

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Hazel Hoe page 155

69028

JIM-GEM Made in USA

Speedy Dibble

6635

Designed by high-production tree planting contractors, this dibble's beveled arrow point, light weight, and shorter length allow for fast and easy tree planting. Dibble bar is approximately 2 lbs. lighter and 2-1/8″ shorter than standard dibble bars. Works well in a variety of soils, especially light to medium and moist soils. Blade is 3″W x 11-7/8″L x 3/8″ thick. Total length of dibble is 35-7/8″.

Speedy Dibble 7 lbs.	**69048**	**$44.25**
	6+	**$39.95**
	12+	**$35.75**

JIM-GEM Made in USA

JIM-GEM® OST and KBC Bars

1592

Features a cast blade of special alloy steel. Blade and footstep are cast as one piece so footstep won't break or bend, even under heavy use. Blade "spike" fits into handle to form reinforced joint. Strong weld at handle and blade joint.

JIM-GEM® OST (Dibble) Bar

Works best in non-rocky soil that is easy to penetrate. Blade is wedge-shaped in cross section. Bar is 38″ long. Blade is 3″W x 10-1/4″L, 3/4″ wide at top, tapering to a thin wedge.

JIM-GEM OST (Dibble) Bar 7 lbs.	**69042**	**$40.75**
	6+	**$38.75**
	12+	**$33.75**

JIM-GEM® KBC Bar

Works best in rocky soil that is difficult to penetrate. The KBC bar will penetrate soil cleanly and easily allowing less dirt to fall in the planting hole. Bar is 39″ long. Blade is 4″W x 12″L, 1″ thick at top, tapering to a point.

JIM-GEM KBC Bar 10 lbs.	**69041**	**$43.25**
	6+	**$41.25**
	12+	**$36.25**

Made in USA

Container Seedling Dibble

1593

38-1/2″L Carbon steel dibble features a 4″L or 6″L cigar-shaped hollow tip which allows you to remove a 1″ diameter solid core. 12-1/2″L Cross handle with rubber hand grips and an 8″L foot plate.

Dibble with 4″L Tip 7 lbs.	**69027**	**$62.25**
	5+	**$59.25**
Replacement 4″L Tip 1 lb.	**69028**	**$34.95**
Dibble with 6″L Tip 7 lbs.	**69031**	**$66.25**
	5+	**$62.75**
Replacement 6″L Tip 1 lb.	**69029**	**$37.50**

Non-Slip Planting Gloves

1599

Non-slip rubber bead covering, 70% nylon, 30% polyester. Cold water washable. Buy them by the dozen and save!

Small 4 oz.	**69136**	**$2.75**
	12+	**$2.30**
	36+	**$1.95**
Medium 4 oz.	**69137**	**$2.75**
	12+	**$2.30**
	36+	**$1.95**
Large 5 oz.	**69138**	**$2.75**
	12+	**$2.30**
	36+	**$1.95**

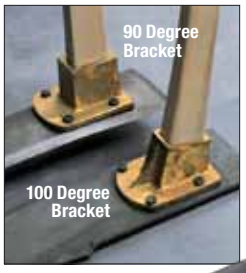
Forestry Suppliers Hoedads

6636

Made in USA

Design your own hoedad with quality parts from Forestry Suppliers – select a blade, a bracket and a handle!

Blades are made of high-quality, heat-treated carbon alloy steel. Sharpened on both sides. The back end of each blade is also sharpened for scalping. **Please Note:** Complete order consists of four stock numbers – one for blade, one for bracket, one for handle and one for bolt pack. Handles will be securely mounted to brackets unless you state otherwise.



Call for quote on large orders!

Concave Blades

Penetrates the soil easily and helps keep the soil from refilling the hole while you place the seedling in the hole. Blades are available in 17″ or 15″ lengths, both measuring 4″ wide at bracket end.

15″ Concave Blade	3 lbs.	**69095**	**$56.25**
17″ Concave Blade	4 lbs.	**69098**	**$59.75**

Flat Blades

The shape of the original hoedad, for all-around planting conditions. Blades are 4″ wide at bracket end.

15″ Flat Blade	4 lbs.	**69088**	**$47.25**
17″ Flat Blade	4 lbs.	**69087**	**$59.50**

Thin Blades

Also called "plug hoes." Preferred for smaller bare root stock. Thinner blade slides easily between rocks in the soil. Widely used in the South to plant bare root pine seedlings.

13″ Thin Blade, 3″ Wide	2 lbs.	**69081**	**$41.50**
15″ Thin Blade, 3″ Wide	3 lbs.	**69080**	**$62.25**
15″ Thin Blade, 3-1/2″ Wide	3 lbs.	**69055**	**$61.25**
17″ Thin Blade, 3″ Wide	3 lbs.	**69149**	**$47.75**

90 Degree Bracket

Holds blade at a 90° angle from the handle.

90° Brass Bracket	2 lbs.	**69077**	**$31.95**
90° Tinzalloy Bracket	11 oz.	**69069**	**$16.25**
		10+	**$14.25**

100 Degree Bracket

Holds the blade at a 100° angle, allowing the blade to enter the soil at a more vertical angle.

100° Brass Bracket	2 lbs.	**69078**	**$31.95**
100° Tinzalloy Bracket	10 oz.	**69079**	**$16.25**
		10+	**$14.25**

Handles & Bolts

Curved handle is 36″ long, made of durable hickory.

36″ Curved Hickory Handle	1 lb.	**69089**	**$12.25**
		12+	**$11.25**
Bolt Pack	2 oz.	**69154**	**$1.75**

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14″ Steel Tiling Spade
7416

5-1/2″W x 14″L Blade with forward turned step. 1″ Schedule 40 steel pipe with a 6″ steel T grip. **Overall length:** approximately 44-1/2″.

Steel Tiling Spade 6 lbs.	**69147**	**$36.50**

Forestry Suppliers Long Handle Planting Shovel
1603

Use to plant pine or hardwoods. Blade is 12″L x 6-1/2″W with reinforcement plate welded on back. Welded-on, rubber-padded footplates. 47″ Handle.

Planting Shovel with Hickory Handle 5 lbs.	X	**69105**	**$57.95**
		6+	**$52.95**
Planting Shovel with Fiberglass Handle Features a cushion end grip. 4 lbs.		**69115**	**$53.75**
		6+	**$46.75**

Spear Head Spade™
7761

Made in USA

11″H x 9″W High carbon manganese steel blade with forward turned step. Designed to reduce digging effort by up to 80%, the blade's edge is sharpened from tip to tail. Hardwood-reinforced fiberglass handle with cushion grip.

Long Handle Spear Head Spade 59″ overall length with straight handle. 4 lbs.	**33887**	**$46.95**
Spear Head Spade 41″ overall length with D-grip handle. 4 lbs.	**33886**	**$45.50**

New! Wolverine All-Steel Long-Handled Spade
4886

Made in USA

Model LH15DP

Ideal for tree planting, the 15″L diamond-point, mill-sharpened steel blade features a razor-sharp cutting surface. Heat-treated blade is made from high carbon USA steel. Features a foot pad, forward step, and closed back. 54″L Powder-coated, aircraft-quality steel tubing handle.

Wolverine All-Steel Long-Handled Spade 8 lbs.	X	**69145**	**$69.95**
		6+	**$68.50**

King of Spades
6637, 6638

Made in USA

13″L blade. 7-1/2″W at top; tapers to 6-1/2″W at bottom. Main shank is zinc plated aircraft tubing. Tubular steel D-handle is 4″ wide inside with a 1-1/4″ diameter handle. Rubber foot pad can be bolted to either side of blade step. One pad included.

Straight Blade Spade 6 lbs.	**69050**	**$91.95**
	3+	**$87.75**
Diamond Point Spade 6 lbs.	**69051**	**$91.95**
	3+	**$87.75**
Foot Pad 5 oz.	**69054**	**$10.65**

Forestry Suppliers Tile Spade Planting Shovel
1604

Opens a deep, narrow hole for seedlings with long root systems. Blade is 14-1/2″L x 5-1/4″W, with welded reinforcement plate on back. Rubber padded footplates. 42″ overall, 28″ hickory handle with wooden D-grip.

Tile Spade Planting Shovel 5 lbs.	**69090**	**$64.75**
	6+	**$61.75**

AMS

AMS Sharpshooter Shovel
1605

Heavy-duty steel sharpshooter opens a deep, narrow hole, even in hard, rocky soil. The long rubber-coated handle reduces recoil from striking rocks. Blade is 18″L x 5-1/4″W at top, tapers to 4-1/4″ at bottom. **Handle:** 29″ long.

AMS Sharpshooter Shovel 10 lbs.	**77621**	**$166.25**

RAZOR-BACK

Razor-Back® Heavy-Duty Sharpshooter Tree Planting Spade
1606

Razor-Back® Model 47-110

For digging deep planting holes. Excellent for seedlings with long root systems. Blade is 4-3/4″W x 16″L. Closed back, turned step, 9″ long socket. 28″ Northern white ash handle with steel and wood D-grip.

Razor-Back Model 47-110 Heavy-Duty Sharpshooter Spade 5 lbs.	**33892**	**$70.75**
	6+	**$67.25**

X Items 60″ or more require an additional handling charge.

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JIM-GEM® Square Tree Planting Bags
1608

28 oz. vinyl is puncture, tear, abrasion and mildew resistant. Silicone-coated stitching at all stress points. Double thickness bottom and stay-open corners. 2″ Nylon belt with non-slip buckles.

JIM-GEM® Square Single Tree Planting Bags

One compartment, 9″ x 9-1/2″ x 15″ deep, with a 44″L unpadded belt.

Single Bag	2 lbs.	**69106**	**$31.95**
		10+	**$29.75**

JIM-GEM® Square Split Double Tree Planting Bag

Two separate compartments for a balanced ride on the hips. 9″L x 9-1/2″W x 15″H with 44″L unpadded belt.

Split Double Bag	4 lbs.	**69093**	**$54.75**
		10+	**$50.25**

JIM-GEM® Round Tree Planting Bags
1612

Constructed of heavy-duty, tear-and-puncture-resistant 28 oz. vinyl. Belts are 2″ wide, heavy-duty polypropylene with non-slip rust-resistant buckles. Polyester stitching is reinforced at all stress points.

"Planter's Choice" Single Round Tree Planting Bag

Chosen by more planters than any other.

12″ x 15″ deep	1 lb.	**69058**	**$24.25**
		10+	**$21.95**
12″ x 18″ deep	2 lbs.	**69083**	**$24.75**
		10+	**$23.25**
12″ x 18″ deep w/ adjustable shoulder strap	2 lbs.	**69082**	**$25.95**
		10+	**$23.50**

"Double Duty" Double Round Tree Planting Bags

Carry more seedlings and eliminate deadheading with this bag. Use as-is or attach the optional shoulder harness and hip pad (sold separately).

Two 12″ x 15″ deep compartments	3 lbs.	**69059**	**$46.25**
		10+	**$43.50**

The Professional's Choice

JIM-GEM® Professional Model Tree Planting Bag with Split Bag
1609

Rugged vinyl split bag with fully adjustable, padded shoulder harness and 44″ long waist belt. Cross straps on shoulder harness keep straps on shoulders. Two compartments, 9″ x 9-1/2″ x 15″ deep.

JIM-GEM Professional Model Tree Planting Bag with Split Bag	4 lbs.	**69167**	**$72.25**
		10+	**$66.75**

Duckbill Earth Anchor page 272

Non-Slip Planting Gloves page 158

JIM-GEM® Adjustable Shoulder Harness
1610

Distributes weight between shoulders and hips for extra comfort!

Attaches to treebag belt. Cross straps in front prevent slipping. Cordura® covered polyethylene shoulder pads. Use with Double Bag (69059) and Split Bag (69093).

Adjustable Shoulder Harness 11 oz.		**69100**	**$25.50**
		10+	**$23.50**

JIM-GEM® Planting Bag Hip Pad
1611

These Cordura® covered polyethylene foam pads take the bite out of the belt of any tree bag on this page.

Planting Bag Hip Pad 2 oz.		**69101**	**$7.75**

Forestry Suppliers Seedling Protection Tarp
1595

Reduces heat build-up in bundled, bagged or boxed seedlings.

Reflects sunlight, keeps cool air trapped under tarp. White vinyl fabric with highly reflective 10.8 oz. mylar metallic finish on one side. When placed over the seedling bags with the white finish up (reflecting direct sunlight) and the metallic finish down, the tarp distributes warming air to eliminate "hot spots."

9′ x 10′	6 lbs.	**69141**	**$108.95**
		3+	**$104.25**
9′ x 15′	11 lbs.	**69142**	**$155.50**
		3+	**$144.50**
15′ x 18′	20 lbs.	**69143**	**$262.50**
		3+	**$239.75**

Warning: The Seedling Protection Tarp should not be used as a pick-up cover as flapping at highway speeds will cause laminated surfaces to separate.

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Roots® Terra-Sorb® Synthetic Super Absorbent

1613

Absorbs and stores water, releasing it to plant roots on demand.

Roots Terra-Sorb is a nontoxic, super-absorbent hydrogel material that absorbs up to 150 times its weight in water and releases water slowly in dry soils. Mix into potting soil or planting soil to significantly increase the soil's water-holding capacity, allowing more water to remain in the upper soil profile where it is available to roots. Roots Terra-Sorb repeatedly absorbs and releases water into the soil, lasts for several years until it biodegrades, and is made without sodium. **Active Ingredient (% by Weight):** 93% Potassium Polyacrylamide/Acrylate Copolymer. **Inert Ingredient:** 7% Water.

Roots® Terra-Sorb® Fine Grade

Directions For Use - Dipping Bare Root Plants: Mix Roots Terra-Sorb Fine with water at a rate of 1 pound per 20 gallons of water. Water absorption will vary with each local tap water, so use more or less water as needed to achieve the desired consistency that allows the maximum amount of gel to adhere to the roots. Stir gently and allow about 15 minutes to gel. Gel will appear as a collection of individual globules. Dip seedling roots into the gel and remove. Then plant immediately. Apply water to the new plants as usual. **Tree Seedling Packing, Shipping, or Planting:** Mix Roots Terra-Sorb Fine with water at a rate of 1 pound per 20 gallons of water. Let stand about 15 minutes to gel. Add more water or more product to achieve the desired consistency that permits the maximum amount of gel to adhere to the roots. Squirt or dip the roots of the seedlings prior to storage or shipping to prevent dessication. **Hydromulching or Hydroseeding:** Add Roots Terra-Sorb Fine to the tank mix at a rate of 50 pounds per acre before adding fertilizer. At a normal rate of 3,000 gallons of water per acre, 50 pounds of Roots Terra-Sorb will hold an additional 900 gallons of water in the seed area. Roots Terra-Sorb Fine is to be mixed into soil. It is not designed for surface applications, other than hydroseeding.

10 lb. Bag Roots Terra-Sorb Fine Grade	10 lbs.	**92925**	**$86.95**
		5+	**$80.50**
55 lb. Bag Roots Terra-Sorb Fine Grade	54 lbs.	**92926**	**$384.00**
		2+	**$351.00**

Roots® Terra-Sorb® Medium Grade

Directions For Use - Tree and Shrub Planting: Mix Roots Terra-Sorb evenly with the backfill soil at a rate of 2 ounces (by weight) per inch caliper for balled and burlapped trees and shrubs, or 1 ounce (by weight) per 5 gallons for containerized trees and shrubs. **Flower Beds and Gardens:** Roots Terra-Sorb is mixed into the top 4 inches of soil at a rate of 1 pound per 100 square feet prior to planting or seeding. It can be broadcast by shaker, spreader, or hand. Rake or rototill into soil. Roots Terra-Sorb is to be mixed into soil. It is not designed for surface applications. **Sodding, Seedlings, or Sprigging:** Roots Terra-Sorb is mixed into the top 2 to 4 inches of soil at a rate of 3 pounds per 1,000 square feet or 150 pounds per acre prior to seedling, sodding, or sprigging. Apply by shaker, drop spreader, or hand. Rake or rototill into top 2 to 4 inches of soil. Roots Terra-Sorb is to be mixed into soil. It is not designed for surface applications.

10 lb. Bag Roots Terra-Sorb Medium Grade	10 lbs.	**92929**	**$85.25**
		5+	**$78.95**
55 lb. Bag Roots Terra-Sorb Medium Grade	57 lbs.	**92930**	**$376.00**
		2+	**$343.00**

DIEHARD™ Mycorrhizal Inoculants page 275

Jobe's® Tree & Shrub Fertilizer Spikes

7354

The slow-release formula of these fertilizer spikes ensures a constant supply of nutrients at the roots. The pre-measured spikes make fertilizing easy. Simply insert the spikes into the ground at the tree's dripline. Use three spikes for every 2″ diameter of tree trunk measured at chest height. Five spikes feed a tree with a 3″ diameter trunk. The spikes feed for 60 days, and best results are obtained with three yearly applications (spring, mid-summer, and fall).

Fruit Tree Spikes – 8-11-11, Bag of 5 Spikes			
1 lb.		**92940**	**$3.15**
		32+	**$2.80**
		160+	**$2.50**
Tree & Shrub Spikes – 15-3-3, Bag of 5 Spikes			
1 lb.		**92941**	**$3.15**
		32+	**$2.80**
		160+	**$2.50**

Fertilizer Tablets

1618

20-10-5 plus minors

Compressed, nutrient-rich tablets supply all the nitrogen, phosphorus and potash needed by seedlings for two years after transplanting. Also contains magnesium, sulfur and iron. Greater amounts of nutrients are released during the active growing season when bacterial activity is greatest. Very little is released during the cool, dormant season. Seedling roots mass around the tablet to absorb released nutrients, allowing less fertilizer to leach away. Convenient tablets make it easy to control the amount of fertilizer and prevent seedlings from being "burned." Tablets are available in 5-, 10-, or 21-gram sizes. Instructions for use included.

5-Gram Planting Tablets

For feeding small plants or groundcovers at planting time. Use one tablet per small plant. Case of 2,100 Tablets.

Forestry Suppliers 5-Gram Planting Tablets	R22	25 lbs.	**92961**	**$74.95**
			3+	**$69.95**

10-Gram Forest Starter Tablets

For transplanting bare root or container tree seedlings in addition to feeding well-rooted liners of shrubs, trees, and vines usually grown in 3- to 6-inch pots and for 1-gallon size plants. Use one tablet per seedling. Carton of 1,000 Tablets.

Forestry Suppliers 10-Gram Planting Tablets	R22	24 lbs.	**92960**	**$63.95**
			4+	**$59.95**
Agriform 10-Gram Planting Tablets		23 lbs.	**92904**	**$74.25**

R22 Restricted. Cannot be sold in FL, NC.

21-Gram Landscaping Tablets

Tablets For general landscaping with 1-gallon size plants and larger nursery stock. Also use for long-term feeding of young established trees and shrubs. Use one tablet for transplanting 1-gallon size plants, two tablets for 5-gallon size plants, and three to five tablets for 7-gallon size plants. For established trees and shrubs, use one tablet per 1/2″ trunk diameter. Carton of 500 Tablets.

Forestry Suppliers 21-Gram Planting Tablets	R22	25 lbs.	**92959**	**$62.95**
			4+	**$58.95**
Agriform 21-Gram Planting Tablets		24 lbs.	**92906**	**$71.75**

Jiffy Peat Pellets

6343

Pre-Drilled

Sow or transplant into pots for ideal growing medium. These small discs of fertilized, sterilized, compressed peat expand when water is added. Pellets are encased in plastic net, pre-drilled for unrooted cuttings, and are 1/4″ x 1-3/4″ dry, 1-3/4″ x 1-3/4″ wet. **pH level:** 6.0-6.3.

Jiffy-7, Case of 1,000 17 lbs.		**93035**	**$108.50**
		3+	**$95.95**

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Blue-X® Tree Shelters
8138

Amplifies blue light to promote tree growth!

Patented two-piece construction that creates a beneficial microclimate to aid in seedling survival. Comprised of a single sheet of blue plastic film which is inserted into a blue-tinted poly sleeve, producing amplified blue light to increase beneficial photosynthetically active radiation and boost tree diameter growth. In addition, the tree shelters block a significant amount of harmful UV light. Sleeve can be removed when the tree shelter is no longer needed, and the plastic film can be stored for reuse. Each tree shelter measures 3-1/2″ in diameter, has an outdoor life of 5 years, and is packaged flat for easy shipping and storage. Prices per 100 shelters. *Stakes sold separately.*

24″	30″	48″	54″	Weight	100	500+	2000+
17012				16 lbs.	$98.95	$91.75	$83.25
	17013			20 lbs.	$115.95	$107.55	$97.45
		17014		30 lbs.	$184.00	$171.00	$154.00
			17019	35 lbs.	$210.00	$200.00	$176.00

Wood Stakes,Flat, 1″x 2″x 36″, Bundle of 50	40 lbs.	39520	$31.25
		5+	$28.15
Wood Stakes,Flat, 1″x 2″x 48″, Bundle of 50	54 lbs.	39523	$39.95
		5+	$36.65

Tubex® Tree Shelters
2624

Setting the standard for seedling protection!

Twin-walled, translucent tubes provide a protected, growth-friendly environment for tree seedlings. Protection from animals, wind, and chemical sprays, as well as providing a greenhouse environment promoting seedling growth and reducing planting stress. Laserline perforations split to prevent fast-growing trees from being constricted. The included bird netting prevents birds from getting trapped in the shelters. The durable nylon ratchet locking ties are pre-threaded, pre-looped, and releasable. Constructed of UV-stabilized polypropylene co-polymer. Set of five shelters. Diameter varies from 2.874″ to 4.133″ to allow shelters to be nested. *Stakes sold separately.*

	2′L	3′L	4′L	5′L	Weight	Set of 5	10+ Sets
Tubex dia. varies from 2.874″ to 4.133″	17004				15 oz.	$13.25	$11.95
		17005			1 lb.	$19.95	$18.25
			17006		2 lbs.	$23.95	$20.75
				17007	2 lbs.	$28.25	$25.95

Bamboo and Wood Stakes page 163

Animal Repellents pages 390 thru 392

Economy Barrier & Game Deterrent Fencing page 392

Plotsaver Deer Repellent System page 392

Plantskydd® Animal Repellent
7102

Natural long lasting protection up to 6 months

Effective, organic protection against deer, rabbits, and elk. Rain resistant formula acts as a foliar fertilizer. Apply to conifer and hardwood seedlings and trees, including cedar, spruce, fir, hemlock, pine, birch, larch, and poplar; flowers; shrubs and ornamentals. **Application Rate:** 1 package of Soluble Powder Concentrate (2.2 lbs.) mixes with 1.5 gallons of water to treat approximately 600 to 800 plants or seedlings (dipped) or 400 to 600 plants or seedlings (sprayed). 1.3 Gallon RTU Solution treats 400-600 plants or seedlings. **Note:** Use pre-mixed RTU Solution within 90 days after opening.

Soluble Powder Concentrate	R10	2 lbs.	17088	$42.25
			10+	$39.95
10-Pack Soluble Powder Concentrate	R10	24 lbs.	17089	$299.00
Ready to Use (RTU), 1.3 Gallon Jug	R10	12 lbs.	17080	$56.50
			3+	$52.50

R10 Restricted. Cannot be sold in CA.

Deer-Off® Animal Repellent
6948

Repels not only deer, but also rabbits, squirrels, voles, moles, and other pests! Deer-Off is made from natural, food-based active ingredients. Its Dual Deterrent System™ utilizes both an odor and a taste barrier to repel animals. One application can last up three months, won't wash away in normal rain or snow, doesn't leave a film or residue, and doesn't change the color or texture of foliage. One 32 oz. bottle of concentrate solution yields two gallons and treats up to 4,000 square feet or approximately 400 shrubs.

32 oz. Concentrate	R24	2 lbs.	17086	$43.50
			12+	$39.95
1 Gallon Concentrate	R24	9 lbs.	17084	$131.00
			2+	$122.00

Note: Not recommended for use on food plants that are intended for human consumption due to the presence of egg solids in the product and the potential for allergic reactions.

R24 Restricted. Cannot be sold in CA, PR.

Plant Pro-Tec Garlic Repellent Sticks
1624

Easy to use!

These unique sticks use garlic oil and a pinch of chili pepper to keep animals from browsing on tree seedlings, Christmas trees, agricultural crops, and horticultural plants. Approximately 6 to 8 month active life; photodegradable in 24 months. Barrier Displacement Probe (17065, sold separately) is required to activate. **Dimensions:** 3-1/4″L x 3/8″ Dia.

Plant Pro-Tec Garlic Repellent Sticks, Pack of 250	2 lbs.	17063	$79.90
		4+	$74.90
Barrier Displacement Probe	1 oz.	17065	$1.10

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Rigid Seedling Protector Tubes
1620

Allows young seedlings to survive and thrive!

Constructed of tough yet flexible UV inhibited polyethylene and polypropylene material. These diamond mesh tubes protect young seedlings from nibbling intruders for up to five years. Allow young seedlings to grow and slowly photodegrade once seedlings have grown to a point of establishment. For best results, install tubes at time of planting and cover entire seedling. Allow 10″ to 12″ of tubing to extend above tree to compensate for later growth and tree top protection. Install optional bamboo stakes with each tube for support. Stakes sold separately. Pack of 250.

pk. of 250	18″	24″	30″	36″		Weight	Pack	4+	10+
3-1/4″ Dia.	**17045**				O	11 lbs.	**$54.25**	**$48.80**	**$45.55**
		17046			O	15 lbs.	**$67.70**	**$67.35**	**$60.85**
			17047		O	20 lbs.	**$84.80**	**$80.45**	**$75.00**
				17048	O	23 lbs.	**$101.10**	**$95.65**	**$90.25**
4″	**17015**				O	14 lbs.	**$70.45**	**$66.80**	**$61.35**
		17016			O	17 lbs.	**$93.25**	**$87.90**	**$82.40**
			17017		O	23 lbs.	**$116.55**	**$110.00**	**$101.30**
				17018	O	26 lbs.	**$127.95**	**$121.80**	**$115.25**

Protex® Pro/Gro Solid Tube Tree Protectors
1623

Acts as a miniature greenhouse.

Each 4″ diameter tube speeds photosynthesis by trapping moisture, thereby raising relative humidity and ambient temperature inside the tube. Also protects the tree from animals, wind desiccation, small rodents, and insects. Diameter around the tree may be expanded by linking two or more of the tubes using the easy latch hasp. Tubes are shipped flat, reducing storage needs and transportation costs. Use optional cable ties to install optional bamboo stakes or wood guard stakes with each tube for support. Stakes and cable ties sold separately. Constructed of type 2 recyclable polyethylene. **Place with shiny side out.** *Stakes sold separately.*

Height	SN	Weight	Each	Qty.	$	Qty.	$
18″H	**17022**	3 oz.	**$0.90**	250+	**$0.80**	500+	**$0.75**
24″H	**17024**	3 oz.	**$1.15**	200+	**$1.10**	400+	**$1.00**
30″H	**17028**	4 oz.	**$1.45**	200+	**$1.40**	400+	**$1.30**
36″H	**17026**	4 oz.	**$1.75**	200+	**$1.65**	400+	**$1.55**
48″H	**17141**	6 oz.	**$2.30**	200+	**$2.15**	400+	**$2.00**
60″H	**17142**	7 oz.	**$2.90**	200+	**$2.60**	300+	**$2.40**

Note: The tubes should be buried a minimum of 2″ into the soil for optimal results.

Plastic Tie & Grafting Tape
page 227

Terra-Sorb™ Synthetic Super Absorbent
page 161

Tree Planting Bags
page 160

Bamboo Stakes
1621

3/8″ x 3′ Bamboo Stakes, pk. of 500	35 lbs.	**17009**	**$55.75**
		4+	**$53.25**
		10+	**$50.25**
3/8″ x 4′ Bamboo Stakes, pk. of 500	45 lbs.	**17010**	**$72.75**
		4+	**$68.75**
		10+	**$66.25**
1/2″ x 4′ Bamboo Stakes, pk. of 250	40 lbs.	**17011**	**$59.25**
		4+	**$55.25**
		10+	**$52.75**

Wood Guard Stakes and Ties
1129

Guard Stakes, 1″ x 1″ x 36″, 50/bnd.	16 lbs.	**39517**	**$24.25**
		5+	**$21.95**
Guard Stakes, 1″ x 1″ x 48″, 50/bnd.	22 lbs.	**39519**	**$32.25**
		5+	**$29.95**
Guard Stakes, 1″ x 1″ x 58″, 50/bnd.	30 lbs.	**39518**	**$41.75**
		5+	**$39.25**
8″ Plastic Cable Ties, Bag of 1,000	3 lbs.	**17032**	**$29.25**
		3+	**$26.50**

O Oversize. Ships at Oversize rate. See Shipping Information for details.

VisPore® Tree Mats
1622

One tree mat provides 9 square feet of weed-free soil and all of the water and minerals that weeds usually take. UV stabilized with carbon black for three years of weed control. 2.5 Mils thick (400 micropores/in^2). Use ground staples (sold separately) to anchor tree mats. Place with dull, rough side down and shiny side up.

3′ x 3′ Tree Mats, Bundle of 100	11 lbs.	**43586**	**$123.50**
		5+	**$114.25**
		10+	**$106.25**
		40+	**$90.25**
Steel Ground Staples, Box of 1,000	36 lbs.	**25019**	**$48.25**
		5+	**$44.25**
Steel Ground Staples, Box of 75	3 lbs.	**25066**	**$8.60**

Repellex® Systemic Animal Repellent Tablets
7973

Active Ingredient: Capsaicin (hot pepper)

Use this systemic animal repellent on flowers & ornamentals for up to one year of protection! This exclusive technology allows capsaicin (hot pepper) to be absorbed into the plant by simply planting a tablet next to a growing plant's root system. Once the repellent is absorbed over 7-30 days, the repellent will stay active for up to one whole year. Since the repellent is internally treating the plant, it will not wash off in the rain like traditional repellents do over time. Labeled and approved for repelling: deer, rabbits, moles, voles, gophers, groundhogs, dogs, cats and feral hogs. During the initial uptake time it is recommended to apply Repellex Original Deer and Rabbit Repellent to treat unprotected foliage while the systemic repellent is absorbed and reaching an effect repellency level. The number of tablets needed to treat a plant varies by height and width. Apply 1 tablet for every foot of plant height and width (height +width). Application amounts may vary by plant type and growth rate. In season re-applications may be necessary with very fast growing plants.

150-Count Bottle	B10	15 oz.	**17051**	**$47.50**
			2+	**$44.95**
500-Count Bottle	B10	3 lbs.	**17052**	**$139.25**

Note: This repellent is not intended for use on food or feed crops. Avoid contact of pesticide with roots, foliage, stems and fruits of all crops intended for consumption because unpleasant taste will result.
B10 Cannot be sold in CA

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Arsenal® Applicator's Concentrate Herbicide

1904

53.1% Isopropylamine Salt of Imazapyr

Controls most annual and perennial grasses, broadleaf weeds, vines, and brambles. Also controls hardwood trees for site preparation and release of loblolly pine stands. Arsenal is an aqueous solution to be mixed in water and applied as a spray. For best results when using backpack sprayers, use a spray surfactant such as Cide Kick II. Active ingredient is 53.1% isopropylamine salt of imazapyr.

1-Quart Jug	R9	3 lbs.	**17135**	**$84.95**
2.5 Gallon Jug	R9	24 lbs.	**17143**	**$499.95**

MSDS Labels and MSDS available at www.forestry-suppliers.com

Polaris SP Site Prep & Basal Herbicide

8538

27.6% Isopropylamine Salt of Imazapyr (Compare to Chopper®)

Ideal hardwood brush control in non-crop areas. Long-lasting control helps reduce the need for re-treatments, and it may be mixed with penetrating oil to expand its weed control spectrum. **Labeled uses include:** forestry site preparation, conifer release, mid-rotation release, ditch banks (non-irrigation), paved sites, utility plant sites, storage areas, and pumping installations. **Some plants controlled include:** Bahiagrass, Bermudagrass, Chinese tallow-tree, Cogongrass, Hickory, Holly, Lyonia spp. (fetterbush), Maple, Oak, Privet, Red Maple, Sassafras, Sumac, Sweetgum, Tanoak, Tree of Heaven, and Yellow-poplar. Active ingredient is Isopropylamine salt of Imazapyr.

2-1/2 Gallon Jug	R9	23 lbs.	**17129**	**$298.00**

Chopper® Generation II Herbicide

3656

26.7% Isopropylamine Salt of Imazapyr

An emulsifiable concentrate mixable with water and recommended seed oils. For the control of many annual/perennial grasses, broadleaf weeds, vines and brambles, and woody brush and trees. Readily absorbed through foliage, bark and roots, Chopper is translocated rapidly throughout the plant with accumulation in meristematic regions causing the plant to stop growing. Recommended for vegetation control in forestry sites and for control of undesirable woody vegetation along forest roads, as well as forestry site preparation in directed applications for conifer release and for mid-rotation release using understory broadcast applications. Chopper is also recommended for the control of undesirable vegetation along non-irrigation ditch banks and for the establishment and maintenance of wildlife openings. Active ingredient is Isopropylamine salt of Imazapyr.

2-1/2 Gallon Jug	R9	24 lbs.	**17106**	**$239.00**

PathFinder II Herbicide RTU

8537

13.6% Triclopyr Butoxyethylester; A ready-to-use formulation of Garlon 4

Controls woody plants in forests, in rangeland and permanent pastures, and in non-crop areas including industrial manufacturing and storage sites, rights-of-way, communication lines, pipelines, road sides, etc. Can be applied to the bark or the cut surface of vines and undesirable hardwood trees. Controls more than 80 woody plant species. No mixing required. Diluent is derived from a naturally occurring, non-petroleum substance. Individual dormant-plant treatments allow for use year-round. Active Ingredient is 13.6% Triclopyr Butoxyethylester.

2-1/2 Gallon Container	R9	20 lbs.	**17130**	**$152.90**
			2+	**$142.90**

Element™ Herbicides

4638

Effective on a wide range of resistant broadleaf weeds and woody plants, including ash and oak. Degrades rapidly in the soil.

Element™ 3A Herbicide
44.4% Triclopyr Triethylamine Salt

Liquid amine formulation works great for foliar, cut surface, and tree injection applications and are most effective during the period of active growth. Tree injections and cut surface treatments can be applied year-round. Compare to Garlon® 3A.

2-1/2 gallons	A I R9	24 lbs.	**17153**	**$189.95**

Element™ 4 Herbicide
61.6% Triclopyr Butoxyethylester

Liquid ester formulation is ideal for foliar and basal bark applications, plus it is effective on actively growing brush by penetrating the bark and entering the cambium layer. Also effective as a late-season application. Compare to Garlon® 4.

2-1/2 gallons	A I R9	23 lbs.	**17154**	**$169.95**

Garlon® 4 Ultra Herbicide And Garlon® 3A Herbicide

1901

60.45% Triclopyr Butoxyethylester and 44.4% Triclopyr Triethylamine Salt

For the control of woody plants and broadleaf weeds. Degrades rapidly in the soil. Garlon 4 is the liquid ester formulation for foliar and basal bark applications, and is effective on actively growing brush by penetrating the bark and entering the cambium layer. Also effective as a late-season application. Active ingredient is 60.45% triclopyr butoxyethylester. Garlon 3A is the liquid amine formulation for foliar, cut surface and tree injection applications. Foliar applications are most effective during the period of active growth. Tree injections and cut surface treatments can be applied year-round. Active ingredient is 44.4% triclopyr triethylamine salt.

Garlon 4 Ultra, 2-1/2 Gallon Jug	R9	24 lbs.	**17134**	**$279.00**
Garlon 3A, 2-1/2 Gallon Jug	A I R9	25 lbs.	**17133**	**$235.00**

R9 Restricted. Cannot be sold in CA, MA, VT, WA.
A Extra Charge if Shipped by Air.
I Extra Charge if Shipped by International Air.

[search engine powered by magazooms.com]

Pronone® Power Pellet Herbicide

1911

75% Hexazinone

Concentrated pellet of hexazinone allows easy and uniform dosage as an individual stem treatment for control of undesirable woody plants. For use in rangeland and in forestry site preparation, pre-harvest control of hardwoods, and pine release in pine-hardwood stands for growth enhancement of loblolly, slash, shortleaf, and longleaf pine. Provides control of many woody plants such as black cherry, blackgum, dogwood, elm, hawthorne, hickory, oak, red sweetgum, and sumac. On woody plants, symptoms usually appear within three weeks after sufficient rainfall has dissolved pellet and carried herbicide into root zone where it's absorbed during periods of active plant growth. Approximately 700 pellets per pound. Active ingredient is 75% hexazinone.

5-1/2 lb. Bucket	R7	6 lbs.	**17112**	**$377.25**
22 oz. Bucket	R7	1 lb.	**17113**	**$118.95**

Transline® Herbicide

3653

40.9% Clopyralid Monoethanolamine Salt

For selective, postemergence control of broadleaf weeds in non-cropland areas including equipment pathways, industrial manufacturing and storage sites and rights-of-way such as along roadsides, electrical lines and railroads. Use on these sites may include application to grazed areas as well as establishment and maintenance of wildlife openings, wild parkland and wildlife management areas, and forest spot application adjacent to these sites. Apply to actively growing weeds. Controls acacias, Jerusalem artichoke, wild buckwheat, bufalobur, common burdock, chamomile, clover, cocklebur, coffeewood, cornflower, dandelion, curly dock, groundsel, hawksbeard, hawkweed, horseweed, jimsonweed, knapweed, kudzu, ladysthumb, prickly lettuce, locoweed, and more. Active ingredient is 40.9% clopyralid: 3,6-dichloro-2-pyridinecarboxylic acid, monoethanolamine salt.

2-1/2 Gallon Jug	R9	26 lbs.	**17101**	**$665.00**

Velpar® L Liquid Herbicide

1908

Hexazinone, 25% by weight

Soil-active herbicide controls trees, brush, weeds, and grasses by inhibiting photosynthesis. Can be dispensed onto ground in undiluted form using spotguns for tree or brush control, or in spray form using high/low water volume spray rigs for weed and grass control. **Susceptible species: Trees/brush:** blackgum, elm, dogwood, green ash, hickory, oaks, persimmon, sweetgum, and willow; **Weeds/grass:** bluegrass, dandelion, orchardgrass, and many others. **Factors affecting performance: Moisture:** needs rain to carry herbicide into soil. **Temperature:** warm. **Timing:** works best during early stage of plant growing season. Water dispersible liquid. One gallon contains 2 lbs. of the active ingredient. Active ingredient is hexazinone, 25% by weight.

2-1/2 Gallon Container	A H I R7	21 lbs.	**17109**	**$247.00**

Oust® XP Herbicide

1909

Sulfometuron Methyl, 75% by weight

Dispersible granule that is mixed with water and applied as a spray. Effectively controls many annual/perennial grasses and broadleaf weeds on non-cropland areas, including crabgrass, dog fennel, fescue, goldenrod, horseweed, ragweed, and sweet clover. May be applied before or after emergence. For best results apply before or during early stages of weed growth. Recommended for commercial reforestation areas where Jack pine, loblolly pine, red pine, slash pine, and Virginia pine are being established. Extreme care must be taken to prevent drift or runoff to homesteads, agricultural land, or any body of water. Not recommended for use on poorly drained or marshy sites. Application may result in damage to Douglas fir, Noble fir, and Ponderosa pine.

3 lb. Container	R1	4 lbs.	**17107**	**$256.00**

DuPont™ Oust® Extra Herbicide

3655

56.25% Sulfometuron Methyl and 15% Metsulfuron Methyl

Controls many annual and perennial grasses and broadleaf weeds in conifer plantations and non-crop sites. May also be used to control certain hardwoods and vines when applied in site preparation treatments. Oust Extra is a dispersible granule herbicide that is mixed in water and applied as a spray or impregnated on dry, bulk fertilizer. When applied as a spray, it is absorbed by both the roots and foliage of plants, rapidly inhibiting the growth of susceptible weeds. When applied on dry fertilizer, Oust Extra is absorbed primarily by the roots. For best results, apply before or during the early stages of weed growth before weeds develop an established root system. Do not apply more than 10-2/3 oz. per acre per year.

4 lb. Container	R1	4 lbs.	**17105**	**$299.00**

DuPont™ Escort® XP Herbicide

3654

60% Metsulfuron methyl

This dispersible granule, post-emergent herbicide mixes in water for spray application and controls many annual and perennial weeds and woody plants in non-crop areas and conifer plantations. May be used for general weed and brush control on industrial non-crop sites and for selective weed control in certain types of unimproved turf grasses on industrial sites and in native grasses. Best results are generally obtained when applied to foliage after emergence or dormancy break because Escort XP is absorbed primarily through the foliage of plants and by the roots to a lesser degree. Active ingredient is 60% Metsulfuron methyl.

16 oz. Container	R9	1 lb.	**17102**	**$179.00**
		2+		**$169.00**

A Extra Charge if Shipped by Air. See Shipping Information for details.
H Hazardous Materials. Requires additional shipping charge.
I Extra Charge if Shipped by International Air.

R1 Cannot be sold in AR, CA, MA, VT, WA.
R7 Cannot be sold in CA, HI, MA, VT, WA.
R9 Cannot be sold in CA, MA, VT, WA.

[search engine powered by magazooms.com]

Refuge™ Herbicide
4727

52.3% Glyphosate: N-(phosphonomethyl) glycine, in the form of monopotassium salt

Concentrated to go 33% further, Refuge is a water soluble liquid that readily mixes with water and non-ionic surfactant to be applied as a foliar spray for the control or destruction of many herbaceous and woody plants. Refuge controls more then 170 grasses, weeds and unwanted brush. For use on emerged plants. Active Ingredient: 52.3% Glyphosate: N-(phosphonomethyl) glycine, in the form of monopotassium salt.

Refuge Herbicide, 2-1/2 gal.	R5	30 lbs.	17156	$108.25

Rodeo® Broad Spectrum Aquatic Herbicide
5082

53.8% Isopropylamine Salt of Glyphosate

Controls more than 90 kinds of grasses, brush, and broadleaf weeds! Safe to use around fresh or brackish water including ponds, lakes, seeps, irrigation and drainage ditches, canals, and reservoirs (do not apply within 1/2 mile of potable water intake). After application, there is no restriction on use of water for irrigation, recreational or domestic purposes. Non-volatile, practically non-toxic to animals, does not bioaccumulate in food chain, and produces no residual soil activity. Apply to plants when they are actively growing. Active ingredient is 53.8% isopropylamine salt of glyphosate.

2-1/2 Gallons	R8	26 lbs.	17110	$86.95

Razor® Pro Herbicide
4467

41% Glyphosate Isopropylamine Salt (Compare to Roundup® Pro)

Ideal for use in post-emergent weed control in industrial sites as well as forestry, turf, vegetation management, and ornamental areas. Razor Pro controls most annual and perennial weeds and is highly effective on woody brush and plants. This surfactant-loaded liquid formulation is rainfast within two hours of application and eliminates the need for additional surfactant. The herbicide moves from the point of contact down into the plant's root system to disrupt the enzyme which controls production of amino acids essential to plant growth.

2-1/2 Gallon Container	R9	26 lbs.	17121	$68.25
			2+	$63.25

Roundup Custom™ Herbicide
7831

53.8% Glyphosate, N-(phosphonomethyl) glycine

This broad-spectrum, non-selective herbicide is effective against more than 190 species of emerged weeds, including a wide range of annual and perennial grasses, broadleaf weeds, and sedges. The versatile herbicide is formulated for both aquatic and terrestrial use, and it is ideal for application where weeds and water meet. Active ingredient is 53.8% glyphosate, N-(phosphonomethyl) glycine.

2.5 Gallon Jug	R9	26 lbs.	17157	$89.95
			2+	$83.95

R5 Restricted. Cannot be sold in CA, CT, HI, MA, NJ, NY, VT, WA.
R8 Restricted. Cannot be sold in CA, MA, NJ, NY, VT, WA.
R9 Restricted. Cannot be sold in CA, MA, VT, WA.

Roundup QuickPro™ Granular Herbicide
1903

73.3% Glyphosate Ammonium Salt and 2.9% Diquat

A water-soluble dry formulation of Roundup Pro®! Contains enough surfactant to be sprayed alone or as a tank mix. Rainfast within an hour, easy to handle, and dust-free. Also offers quick cleanup with less waste. Active ingredients are 73.3% glyphosate ammonium salt and 2.9% diquat.

Carton of Five 1.5 oz. Dose Packs. One pack added to one gallon of water yields 0.85% solution.	R9	11 oz.	17138	$14.95
			6+	$12.95
New! 6.8 lb. Jug. One jug yields 72 gallons of spray solution. Includes handy measuring cup.	R9	8 lbs.	17158	$99.95
			2+	$92.95

Roundup ProMax™ Herbicide
1903

48.7% Glyphosate, N-(phosphonomethyl) Glycine.

This concentrated formula is rainfast in 30 minutes! A special surfactant allows the solution to penetrate weed leaf surfaces quickly. A mixture of 2 oz. per gallon of water can be used for most applications, and a handy measuring cup is included. Active ingredient is 48.7% glyphosate, N-(phosphonomethyl) glycine.

1.67 Gallon Jug	R9	20 lbs.	17150	$87.00
			2+	$82.00

Labels and MSDS available at www.forestry-suppliers.com MSDS

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Poast Plus® Herbicide
7537

13.0% Sethoxydim

A selective, broad spectrum, postemergence herbicide for control of annual and perennial grass weeds. Poast Plus rapidly enters the target weed through its foliage and translocates throughout the plant. Effects range from slowing or stopping growth (generally within 2 days) to foliage reddening and leaf tip burn. Applications can be made to actively growing weeds as aerial, broadcast, band, or spot spray applications. The most effective control will result from making postemergence applications early while weeds are small. Apply Poast Plus uniformly and completely to the foliage of grasses since large leaf canopies shelter smaller weeds and can prevent adequate spray coverage.

2.5 Gallon Container	R9	20 lbs.	**17147**	**$245.00**

Milestone® Herbicide
7526

40.6% Aminopyralid triisopropanolammonium

For long-lasting control of susceptible weeds and certain woody plants, including invasive and noxious weeds, on rangeland, permanent grass pastures (including grasses grown for hay), Conservation Reserve Program acres, and non-cropland sites. Translocates into foliage and moves quickly throughout the entire plant, going deep into the root system. Kills the entire plant and provides soil residual activity to control later-emerging broadleaf weeds all season long. May be applied post emergence as a broadcast spray or as a spot application to control weeds. Apply the specified rate of Milestone as a coarse low-pressure spray. Do not broadcast apply more than 7 fl. oz. per acre of Milestone per year.

One Quart Container	R19	3 lbs.	**17131**	**$125.00**
			2+	**$112.50**

Pathway® Herbicide RTU
1889

5.4% Picloram, 20.9% 2, 4-D Amine

Ready-to-use herbicide is effective in cut surface applications for killing unwanted trees and preventing undesirable sprouting of cut trees in forest and other non-crop areas. Controls ailanthus, alder, aspen, birch, cedar, cherry, dogwood, elm, firs, green ash, gum, hawthorn, hickory, hornbeam, maple, oak, pecan, persimmon, serviceberry, sourwood, and sweetbay. Use undiluted with tree injectors or in the frill girdle treatment using an axe. Active ingredients are 5.4% picloram and 20.9% 2, 4 D-Amine.

2-1/2 Gallon Container	R3	24 lbs.	**17125**	**$119.95**
			2+	**$100.75**

Weedestroy® AM-40 Herbicide
4469

47.3% Dimethylamine Salt of 2, 4-Dichlorophenoxyacetic Acid

Perfect for use on lawns, ornamental turf, drainage ditchbanks, fence rows, and rights-of-way. Weedestroy provides effective broad spectrum weed control, is safe for desirable grasses, and is tank mix compatible. The water-based amine formulation utilizes colorless, high performance surface agents and contains highly-effective sequestering agents which allow for more solubility in hard water. Active ingredient is 47.3% Dimethylamine Salt of 2, 4-Dichlorophenoxyacetic Acid.

2-1/2 Gallon Container	R2	25 lbs.	**17123**	**$58.95**

GrazonNext® HL Herbicide
7525

41.26% Triisopropanolammonium salt of acetic acid (2,4-dichlorophenoxy) and 8.24% Triisopropanolammonium salt of 2-pyridine carboxylic acid

Controls broadleaf weeds and certain woody plants on rangeland, permanent grass pastures (including grasses grown for hay), Conservation Reserve Program acres and wildlife management areas. May be applied postemergence as a broadcast spray or as a spot application. Also provides preemergence control of germinating seeds or emerging seedlings of susceptible weeds and re-growth of certain perennial weeds following application. Apply as a coarse low-pressure spray. Do not broadcast apply more than 34 fl. oz. (2.1 pints) per acre per year.

2 Gallon Container	A	R3	26 lbs.	**17127**	**$140.00**
				2+	**$129.00**

Note: Cannot be sold outside of the United States.

New! Tordon® RTU Herbicide
4903

5.4% Picloram and 20.9% 2, 4-D Amine

Ideal for cleaning out fence lines and non-cropland areas, this ready-to-use herbicide kills cut stumps and is effective against more than 20 woody species. Tordon translocates into the tree's root system to prevent resprouts, and the no-freeze formulation can be used almost year-round. A blue colorant in the herbicide makes it easy to keep track of treated stumps. Squirt bottle applicator included. Active ingredients are 5.4% picloram and 20.9% 2, 4-dichlorophenoxyacetic acid, triisopropanolamine salt.

One Quart Container	R3	2 lbs.	**17159**	**$23.95**
			6+	**$21.95**

R2 Cannot be sold in AR, CA, KY, MA, NJ, NM, NY, TX, VT, WA.
R3 Cannot be sold in AR, CA, CT, HI, KY, MA, NJ, NM, NY, VT, WA.
R9 Cannot be sold in CA, MA, VT, WA.
R19 Restricted. Cannot be sold in CA, MA, NM, NY, VT, WA.

A Extra Charge if Shipped by Air. See Shipping Information for details.

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Cide-Kick II™ Spray Adjuvant For Herbicides

1891

Spray surfactant helps break down waxy cuticle on leaf surfaces and penetrates bark for a more effective uptake of herbicides. Also is a wetting agent, activator and penetrant all in one. Recommended for Garlon® 4 Ultra/Streamline treatment as well as Arsenal, Accord® and other herbicides. Biodegradable.

One Gallon	R10	8 lbs.	17132	$30.95
			4+	$28.75

NS3 Nonionic Sticker Surfactant

8002

Helps your spray applications have more impact!

Boosts the effectiveness of herbicides, insecticides, fungicides, acaricides, plant growth regulators, and defoliants. Improves the wetting, spreading, and contact of spray solutions by promoting uniform coverage on plant leaf surfaces without excessive runoff. Selective and non-selective herbicides can be applied more effectively, even on hard-to-wet vegetation. Impact can also be used as a soil penetrant to deliver plant protectants and nutrients into the root zone by helping soluble products move readily through organic layers of thatch as well as impermeable and hard-to-reach soils. Active ingredients are 90% Ethoxylated Alkylaryl, Ethoxylated Fatty Acids, and Polyoxyethylene Ether.

One Gallon	9 lbs.	17140	$38.95
		4+	$37.75

Hi-Light Dye Liquid

1898

See where you spray! When added to your spraying system, this industrial-strength, temporary colorant allows you to accurately and uniformly apply pesticides and liquid fertilizers. May be used with Roundup®, Accord®, Garlon® 3A or any 2, 4-D amine herbicide.

Use 0.5-2 oz. for 1 - 3 gallon tank; 6-10 oz. for 30 gallon tank; and use 16-32 oz. for 100 gallon tank. Compatible with most chemical compounds. Washes off equipment, clothing and skin with soap and water.

Liquid Dye, 1 Gallon	9 lbs.	92986	$58.50
Liquid Dye, 1 Quart	2 lbs.	92995	$23.50
		12+	$21.75

Labels and MSDS available at www.forestry-suppliers.com

Find more pesticides at www.forestry-suppliers.com

Colorfast Dye

1894

Purple dye for use with 2,4-D ester and Garlon 4 Ultra. Mix 2 to 6 oz./100 gallons. (Not compatible with Banvel, Velpar L, Garlon® 3A or any 2, 4-D amine herbicide.)

One Gallon 10 lbs.	A	92997	$116.50

ACMI Violet Dye

1893

For use in Velpar® L and other water dispersible herbicides. Mix one-half to one fluid ounce per gallon.

One Pint 1 lb.	A	92985	$25.95

Bas-Oil Red® Dye

1890

Bas-Oil Red is designed specifically for use in oil-based herbicide solutions such as Garlon® 4. **Low Volume or Concentrated Applications:** 0.5 fl. oz. to 2.5 fl. oz. per gallon of spray solution. **Broadcast Application:** 6.5 fl. oz. to 32 fl. oz per 100 gallons of spray solution. Only use Bas-Oil Red with oil-based herbicides and hydrocarbon carriers.

One Pint 1 lb.		92988	$34.95

Blazon® Blue Spray Pattern Indicator

1895

Mix one to two fluid ounces per gallon. Remains colorfast for a maximum of approximately 48 hours. May be used with Roundup®, Rodeo®, Garlon® 3A or any 2, 4-D amine herbicide.

2-1/2 Gallons 25 lbs.		92987	$128.25

A Extra Charge if Shipped by Air. See Shipping Information for details.
R10 Restricted. Cannot be sold in CA.

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JUSTRITE®

Justrite® Pesticide Safety Storage Cabinets

8147

Specially designed for storing pesticides, these cabinets feature sturdy double wall, 18-gauge steel construction with 1.5″ of air space and dual flame-arresting vents. The adjustable steel shelves are fitted with corrosion-resistant polyethylene trays and can accommodate a wide variety of containers. A three-point automatic latch with a keyed lock prevents unauthorized access. All cabinets are FM tested and approved, designed in accordance with NFPA code 30 regulation, and comply with OSHA regulations.

30-Gallon Capacity, one shelf, 44″ x 43″ x 18″. 181 lb.	F	85511	$817.00
45-Gallon Capacity, two shelves, 65″ x 43″ x 18″. 259 lbs.	F	85512	$926.00
60-Gallon Capacity, two shelves, 65″ x 34″ x 34″. 325 lbs.	F	85513	$1173.00

Rite in the Rain ALL-WEATHER WRITING PAPER

Rite in the Rain® Pesticide Application Record Book

7933

Designed for keeping record of pesticide application. Information can be recorded for location/field name; crop, commodity or site; pesticide and EPA registration number; rate; size of area treated; date and time of application completed and time of re-entry; applicator's name and certificate number; and room for additional notes. 8-1/2″ x 11″ Maxi-Spiral Notebook. 42 Leaves.

No. 1639 15 oz.	49377	$18.50
	12+	$16.95

Forestry Suppliers Pesticide First Aid Kit

8609

Be ready for pesticide emergencies with this first aid kit which includes everything recommended by the CDC for responding to a pesticide trauma. Contents include activated charcoal, a mouth and eye shield, 1 box of 1″ x 3″ adhesive strips (16), 3 tongue depressors, 1 can of evaporated milk, 1 emergency blanket, 2 plastic spoons, 4 - 16 oz. bottles of water, 2 pair Nitrile gloves, adhesive tape, 2 plastic jars with screw lids, and 1 can opener. All stored in a bright red bag for easy identification. **Bag Dimensions:** 13.5″L x 8.25″W x 8.75″H.

Pesticide First Aid Kit	7 lbs.	24987	$91.95
		3+	$81.95

F Ships Motor Freight. See Shipping Information for details.

Spill Response Kit

1920

For anyone who deals with hazardous or potentially dangerous materials.

This kit allows quick, efficient action against spills up to five or six gallons. Includes three large Chemsorb tubes (to surround the spill) two large Chemsorb pillows (to remove spilled material) and a carrying bag. Pillows absorb 21 times their own weight and safely contain the spilled material within their own covering. Chemsorb absorbs 80% of capacity in just 30 seconds, is non-flammable, non-toxic, inhibits vaporization and has an unlimited shelf life. Also includes one pair of nitrile gloves, three heavy-duty disposable bags for temporary storage and approved labels to quickly and correctly identify materials that have been picked up.

Spill Response Kit	8 lbs.	23208	$94.50
		3+	$87.25

Note: Does not work with hydrofluoric acid.

ATV Sprayer with Boomless Nozzle page 181

Neutralize Tank Cleaner

1880

Prevents cross-contamination in your sprayers.

One tablespoon of this highly concentrated, non-corrosive powder will clean a 3-gallon sprayer. Add Neutralize right into the sprayer and fill it with water, shake thoroughly and empty solution through the wand. One pound treats approximately 100 gallons. Box contains 2 lbs.

Neutralize Tank Cleaner 2 lbs.	A	17136	$13.75

1 Quart Measure Mate Chemical Container

1905

Handy for mixing small amounts of chemicals for backpack and hand-held sprayers.

A one quart, polypropylene, self-measuring container used to measure non-EPA restricted chemicals. Quart chamber is graduated in 2 oz. increments to 32 oz. Small reservoir measures 1/2 oz. and 1 oz. amounts.

Measure Mate Container 4 oz.		92989	$5.50

A Extra Charge if Shipped by Air.

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E-Z-Ject® Lance

1887

Control undesirable trees with a fast herbicide injection system that kills invasive trees, stumps, and brush.

Use in a wide range of fields, — forestry, utility and public works, parks and recreation, and golf courses — to control growth in areas that must be kept clear. Kills roots, stems and foliage. Lightweight and compact, measuring only 5′ long and 3″ diameter, this closed application system is approved for use in wetland and aquatic sites. There are no chemicals to mix or measure, and the operator never contacts the herbicide. Reloads in the field under all conditions. Lance head holds four tubes of 100 capsules each.
Herbicide capsules (sold separately) can be injected directly into selected brush and trees without danger to surrounding vegetation or to the injector operator.

Application

Inject 1 capsule every 4″ evenly around the trunk (below all major branches). Trees less than 2-1/2″ diameter receive 1 capsule per stem.

E-Z-Ject Lance	Ⓞ 14 lbs.	**18098**	**$495.00**

"Diamondback" Red Capsules (Glyphosate, Equivalent to Accord/Roundup), Box of 1,200.
Available only in the following states: AR, CO, FL, HI, ID, IL, IA, KY, MD, MI, MN, MS, NJ, NM, NY, OH, OR, PA, SC, TN, TX, VA, WI.

5 lbs.	**18099**	**$234.00**

"Copperhead" Green Capsules (Imazapyr, Equivalent to Arsenal), Box of 1,200.
Available only in the following states: AR, CO, FL, GA, HI, IL, KY, MI, MN, MS, NE, NJ, NM, OH, OK, OR, PA, SC, TN, TX, UT, VA, WI, WV.

3 lbs.	**18100**	**$258.00**

Replacement parts available on our website forestry-suppliers.com

Hypo-Hatchet® Tree Injector

6348

Increased production, easy use, and unbeatable performance.

Bit is machined from high quality tool steel for superior strength. Nickel-plated cylinder reduces corrosion and wear. No cylinder liner is required. Tygon® herbicide hose for maximum chemical resistance. Selectively kills undesirable trees in a forest stand without harming desirable trees nearby. To inject a tree, strike tree at a 45° angle with enough force to bury bit in sapwood. Striking the tree creates necessary force to deposit the pre-set amount of herbicide (slightly more than 1 ml). Make one injection per inch of tree dbh. Spacing between cut edges should not exceed 1-1/2″. Injections are made waist high on the tree. 72″ hose and check valve included. Order bottle and carrying case separately. Additional parts are available.

Hypo-Hatchet	3 lbs.	**21002**	**$449.95**
Carrying Case for Hypo-Hatchet	6 lbs.	**78218**	**$41.95**
1-Gallon Container	6 oz.	**21038**	**$7.10**
Fanny Pack Carry Bag, 6″ x 9″ x 8″	10 oz.	**94054**	**$25.25**
Piston Assembly	2 oz.	**21045**	**$28.95**
Piston Seal	1 oz.	**21046**	**$1.60**
O-Ring for Head Plug	1 oz.	**21047**	**$0.50**

Note: The Hypo-Hatchet is for use with amine herbicides only! Ester herbicides are not registered for use with this instrument and may damage certain parts of the Hypo-Hatchet.

Tree Girdler Tool

1886

Used as an alternative to herbicides.

This unique hand-held tool allows you to girdle unwanted trees in seconds. The special carbon steel blade slices through both the bark and cambium layers, cutting a 5/8″ wide groove, deep enough to kill it. Features an ergonomically designed, cast aluminum handle with a molded grip, all-steel components, and an adjustable blade to effectively girdle trees from 2″ to 30″ in diameter. Replacement blades available below.

Ringer	1 lb.	**18019**	**$199.00**
Replacement Blade	1 oz.	**18018**	**$37.00**

Ⓞ Oversize. Ships at Oversize rate.
See Shipping Information for details.

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Green Garde® JD9-C High Pressure Spray Gun
2128

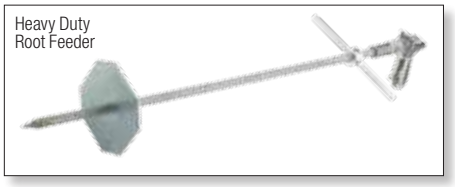
Extremely tough, versatile and reliable, the JD9-C features stainless steel construction, chemical-resistant Viton® inner seals and a fully adjustable nozzle which quickly switches from a fine mist to a long, pin-pointing stream with a few twists of your wrist. The JD9-C works with all types of herbicides, pesticides and fertilizers and is ideal for small tree spraying, perimeter control of insects, lawn-care chemical application, and various other jobs where high volume, high pressure spraying is needed. To use the JD9-C as a root feeder, the optional root-feeding needle is required. **Maximum Spraying Pressure:** 1,000 psi.

JD9-C Spray Gun	2 lbs.	**13617**	**$159.75**
Optional Flooding Nozzle 1 gpm	1 oz.	**13613**	**$26.25**
Optional Flooding Nozzle 2 gpm	1 oz.	**13615**	**$26.25**
Optional Flooding Nozzle 4 gpm	1 oz.	**13614**	**$26.25**

Green Garde® Heavy-Duty Root Feeder

Penetrates the tree's root zone up to 10″ deep. Features include stainless steel construction, chrome-plated handle and foot plate, and an O-ring seal around the two-hole tip. **Dimensions:** 41″L x 5/8″ Dia.

Green Garde Heavy-Duty Root Feeder	6 lbs.	**13618**	**$329.75**
Replacement Root Feeder Needle Tip	1 oz.	**13619**	**$55.95**



Multi-Purpose 30L Low-Pressure Gunjet Kit
6344

Apply forestry herbicides, weed sprays, and more.

Attach this Multi-Purpose Gunjet to your Solo® 475, D.B. Smith, or SP Systems Backpack Sprayer to apply a wide range of forestry herbicides, such as Velpar L Spotgun, Garlon streamline basal bark and foliar applications, Oust or Velpar L weed and grass sprays, Arsenal foliar applications, and more! Features a durable nylon housing and trigger lock with brass fittings and three brass nozzles (0.0001, 0.0002 and 0.0003). The kit includes parts for attaching the #30 Gunjet to a Solo®, D.B. Smith®, or SP Systems™ sprayer. Viton® O-ring seals resist chemicals and prolong gun life. The #30L Gunjet has a maximum pressure rating of 250 psi (recommended pressure for most applications above is about 30 psi.)

Model 30L Low-Pressure Gunjet Kit	1 lb.	**12835**	**$83.50**
18″ Straight Extension	5 oz.	**12862**	**$16.10**
Adjustable Conejet Nozzle	2 oz.	**12845**	**$20.95**
Nozzle Cap	1 oz.	**12938**	**$1.55**
Valve Seat Sub-Assembly	1 oz.	**12872**	**$6.25**

Respirators
pages 610 thru 612

MeterJet™ Gunjet Spray Gun Kit
1853

Delivers a precisely metered volume of spray from 1.0 to 16.0 ml with a single pull of the trigger.

Recharges when trigger is released. Vertical and adjustable vernier scales let you accurately set volumes to nearest 0.1 ml. Accuracy of ±2%. **Inlet connections:** 1/4″ NPT (F) or 1/4″ BSPT (F). Maximum operating pressure of 75 psi. Minimum pressure of 25 psi. Wetted parts are nylon, Teflon®, Viton®, brass, or stainless steel for long wear. Charge indicator located on bottom of metering subassembly. Trigger can be locked in "off" position. Kit includes a MeterJet, three brass nozzles (0.0001, 0.0002 and 0.0003), and parts for attaching the MeterJet to a Solo®, D.B. Smith®, or SPS™ sprayer.

MeterJet Spray Gun Kit	2 lbs.	**12893**	**$133.95**
18″ Straight Extension	5 oz.	**12862**	**$16.10**
Adjustable Conejet Nozzle	2 oz.	**12845**	**$20.95**
Nozzle Cap	1 oz.	**12938**	**$1.55**
Valve Seat Sub-Assembly	1 oz.	**12872**	**$6.25**

Accu-Pour™ Measuring Pitchers
7405

Made from food grade polypropylene that is resistant to a wide range of chemicals, these pitchers feature US oz. and metric raised graduations. Features include extra strong construction, an open handle, and generous sizing to minimize spilling.

8 oz./250 ml; graduated every 0.25 oz./5 ml			
1 oz.	C	**54052**	**$5.30**
		10+	**$4.75**
16 oz./500 ml; graduated every 0.5 oz./10 ml			
3 oz.	C	**54053**	**$6.60**
		10+	**$5.60**
32 oz./1 liter; graduated every 0.5 oz./10 ml			
4 oz.	C	**54054**	**$7.60**
		10+	**$6.60**
64 oz./2 liters; graduated every 1 oz./50 ml			
6 oz.	C	**54055**	**$8.95**
		10+	**$8.25**
128 oz./4 liters; graduated every 2 oz./100 ml			
10 oz.	C	**54056**	**$12.95**

Rubbermaid® Measuring Cups
1906

Lightweight carb-x material. Dishwasher safe to 212°F. Complies with FDA regulations.

2-Qt./1.9 liters – grad. 4 oz./125 ml			
12 oz.	C	**54033**	**$21.75**
		6+	**$19.25**
4-Qt./3.8 liters – grad. 1 pint/0.5 liters			
1 lb.	C	**54034**	**$23.75**
		6+	**$21.95**

C Combination English and Metric

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Sideswipe® Pro Herbicide Applicator
8273

Designed to precisely and selectively apply the correct amount of herbicide, the Sideswipe Pro features a wipe-on nylon applicator pad that wets evenly for effective distribution and application with no drift or overspray. A protective shield over the top of the applicator pad allows you to safely apply herbicide even around desirable plants and shrubs. The reservoir handle features a 32 oz. (1 liter) capacity.

Coverage Area: 1,800 sq. ft. **Pad Length:** 9″. **Handle Length:** 52″.

Sideswipe Pro Herbicide Applicator 2 lbs.	**18025**	**$42.50**
	4+	**$39.50**
Replacement Pad 4 oz.	**18026**	**$18.25**
	4+	**$17.25**

Weed Wand Magic™
6908

Knock out weeds on the spot!

Ideal for quick, easy spot application of herbicide directly on weeds - plus, it does not leak! Prevents bending over and allows you to press the applicator tip on the weed without overspray. Simply push down on the tube to apply the desired amount of herbicide. Stainless steel hanging ring for storage.

Length: 36″. **Weight:** 6.7 oz. **Capacity:** 8 oz. of liquid.

Weed Wand Magic 7 oz.	**18022**	**$18.25**
	6+	**$16.95**
Replacement Applicator Tips (Pack of 3) 1 oz.	**18023**	**$5.00**

1 Manufacturer's Warranty 1 Year

Hudson® Professional Stainless Steel Compressed Air Sprayer
2345

2-Gallon Capacity

Rugged and versatile, this two-gallon capacity sprayer features a stainless steel tank, a Kem-Oil™ braided power sprayer-type hose, and a Drip-Not™ discharge set metal control valve that shuts off at the nozzle to reduce chemical waste. An extra large opening allows for easy filling and cleaning. Other features include an 18″ curved brass spray wand, a four-way multi-jet nozzle, a pressure gauge with a large view dial, and Viton® seals and gaskets for superior chemical resistance. One-year manufacturer's warranty.

Hudson Professional Stainless Steel Compressed Air Sprayer	9 lbs.	**13626**	**$334.75**

Note: Not for use with flammables, caustics, or corrosives.

SPS INTERNATIONAL

SPS International Industrial Hand-held Sprayer
7238

3-Gallon Capacity

Built for rugged reliability, this sprayer features a high density polyethylene tank with UV inhibitors and is designed to spray for over 10 minutes with only 40 pump strokes. A 12″ internal pump chamber builds up pressure quickly, and the sprayer features high-grade Viton® seals throughout. The industrial spray pistol with on/off lock allows you to release the trigger while spraying. Other features include a 20″ brass wand, wand storage clip, 59″ hose, wide funnel opening for easy filling, and shoulder strap. One adjustable brass nozzle included. **Working Pressure:** up to 120 psi.

3-Gallon Capacity Sprayer	8 lbs.	**13253**	**$90.25**

solo

Solo® Spritzer Sprayer
3671

Allows you to perform small spraying jobs single-handedly!

Compact and lightweight, this 1 Liter pressure sprayer is easily operated with one hand and features an adjustable spray nozzle. Graduated in milliliters and ounces. **Capacity:** 1 Liter.

Solo Spritzer Sprayer, 1 Liter Capacity 12 oz.	C	**13340**	**$10.25**
		3+	**$9.25**

C Combination English and Metric

Made in USA

1.5 Quart Compact Pressurized, Chemical Resistant Sprayer
1860

Perfect for smaller spraying jobs.

This lightweight, 1-1/2 quart sprayer is ideal for smaller spray jobs where using a full-size sprayer is cumbersome or inconvenient. Features a fully adjustable spray nozzle, locking trigger, English/metric level graduations, and a durable hard shell. Made in the U.S.A.

Capacity: 1-1/2 qts. 12 oz.	C	**12341**	**$12.90**
		6+	**$11.25**

Note: Not resistant to Chlorinated solvents, acids or keytones.

5 Manufacturer's Warranty 5 Year

Made in USA

1 Quart Spraymaster Chemical Resistant Sprayer/Mister
1861

Dispenses 2-1/2 times more liquid per stroke than standard sprayers, holds a full quart of solution. Opaque shell protects light sensitive chemicals; see-through stripe with graduations and dilution scales for precise measuring and application. Write-on labels and infinitely adjustable spray pattern – from mist to stream. Made in U.S.A. Five-year manufacturer's warranty.

Capacity: 1 qt. 5 oz.	C	**12340**	**$10.25**
		12+	**$9.25**

Note: Not resistant to Chlorinated solvents, acids or keytones.

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Made in USA

D.B. Smith Contractor Series Sprayer

1855

2- and 3-Gallon Capacities

This rugged sprayer features an industrial HDPE tank, Viton® seals, and a high-efficiency, heavy-duty pump that is easy to service. Professional grade shut-off with comfort grip, lock, and filter. Features a five-nozzle system (brass adjustable, poly adjustable, 2 flat fans, and foaming). Sprayer accepts TeeJet® nozzles. Pressure relief valve, industrial grade 50″ hose, 21″ heavy-duty poly wand, and protective nozzle storage. Carry strap included.

Contractor Series 2-Gallon Sprayer	4 lbs.	**13298**	**$39.75**
		3+	**$36.75**
Contractor Series 3-Gallon Sprayer	5 lbs.	**13299**	**$47.50**
		3+	**$44.50**
Service Kit, Includes Viton Pump Gasket, Piston Cup & Retainer Assembly, Adjustable Brass Cap, Umbrella Valve, and 2 O-Rings	2 oz.	**13295**	**$3.95**

solo

Solo® 465 Stainless Steel Sprayer

3672

2-Gallon Capacity

Stainless steel construction resists corrosion and is rugged, durable, and easily cleaned. The chemically resistant Viton seals and O-rings assure long life even when used with harsh chemicals. Other features include a wide base tank to prevent tipping; a large funnel top opening for easy filling; a 28″ rugged brass spray wand with shut-off valve; fan, hollow cone, jet stream, and brass adjustable spray nozzles; a 48″ reinforced spray hose; and a large T-style handle for easy pumping.

Solo 465 Stainless Steel Sprayer, 2-Gallon Capacity	6 lbs.	**13345**	**$73.25**

We repair Solo sprayers.
Call 800-752-8460 for information.

solo

Solo® 430 Series Handheld Sprayers

2622

1- and 2-Gallon Capacities

5 Manufacturer's Warranty 5 Year

These sprayers feature a large filler opening and funnel top for easy filling every time. Constructed of high-grade polyethylene, the sprayers are resistant to chemicals and stress. Spray patterns can be varied using one of four nozzles: an adjustable nozzle which sprays from a stream to a mist, a flat fan nozzle for area and row application, a hollow cone nozzle for use on shrubs and bushes, and a jet stream nozzle for longer range applications. Each sprayer also features Viton® chemical-resistant seals, a long hose, and a large pump handle. Replacement parts available. Manufacturer's five year limited warranty.

Model 430-1G, 1-gallon capacity	4 lbs.	**13386**	**$26.50**
		3+	**$24.75**
Model 430-2G, 2-gallon capacity	5 lbs.	**13387**	**$29.25**
		3+	**$27.25**
Repair Kit for Solo 430 Series Sprayers	2 oz.	**13066**	**$4.95**

solo

Solo® 454, 456 and 457V Hand-held Sprayers

1854

1.25-Gallon, 2.25-Gallon and 3-Gallon Capacities

Specially designed pumps with a spraying pressure of up to 45 psi means over 50% fewer pump strokes than other sprayers. Viton® chemical-resistant seals and O-rings stand up to harsh chemicals. Tank, pump and sprayer parts are all made of corrosion-resistant high-density polyethylene. Features include a large filler cap and squeeze handle with latch and long wand; multifunction safety valve that serves as a pressure control gauge and release for excess pressure; and an adjustable nylon carrying strap. Model 457V also features an air hose attachment for pressurizing with an air compressor. Replacement parts available.

Model 454, 1.25 gal. capacity	6 lbs.	**13396**	**$41.95**
		3+	**$39.25**
Model 456, 2.25 gal. capacity	7 lbs.	**13384**	**$45.75**
Model 457V, 3 gal. capacity	7 lbs.	**13397**	**$49.95**
		3+	**$47.50**
Pump Repair Kit – Contains # 3 O-Ring, # 4 O-Ring, # 7 O-Ring, # 9 O-Ring, # 13 Gasket, # 19 O-Ring, and # 23 Umbrella Valve	2 oz.	**13567**	**$5.95**
Shut-Off Valve Repair Kit for Solo 450 Series	2 oz.	**13408**	**$6.50**

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We repair Solo sprayers.
Call 800-752-8460 for information.

Gate CFValves™
4129

Controlled Flow Valves

More precise and cost-effective spraying with less effort and waste! The patented design of Gate CFValves control both the flow and pressure of formula delivered by sprayers to 1.5% with flow rates of 0.001 to 0.005 gallons per minute. Gate CFValves also eliminate messy nozzle drip. 14.5 and 21 psi models available for backpack and handheld sprayers.

14.5 psi CFValve For Solo Sprayers. Yellow			
1 oz.		**13230**	**$19.50**
21 psi CFValve For Solo Sprayers. Red			
1 oz.		**13231**	**$19.50**
21 psi Valve for SP Systems Sprayers			
1 oz.		**13233**	**$19.50**

Deluxe Shoulder Saver Harness
1844

Distributes weight evenly and assures maximum comfort while operating your sprayer!

Made with quality construction and materials. Thick, padded, adjustable shoulder straps and padded, adjustable waist. Adjustable chest strap keeps shoulder straps from slipping off your shoulders. Waterproof pads prevent chemical saturation and protect your skin. Can be used with Solo, Hudson SP, and Field King backpack sprayers. Does not fit Solo air or mist blowers.

Deluxe Shoulder Saver Harness			
1 lb.		**13224**	**$39.95**

solo

Solo® Backpack Sprayers
1843

Spray herbicides, insecticides, fungicides, liquid fertilizers, game repellents, livestock sprays, cleaning solutions and more.

UV-stabilized polyethylene tank accepts water or oil-based chemicals and Viton® seals resist corrosive chemicals. Not recommended for acids. Easy-fill, 4″ wide tank opening with removable strainer, adjustable hand-pump for left or right side use, fan, cone and straight stream no-drip nozzles with built-in strainers, locking sprayer, padded adjustable shoulder strap and steel support frame. The piston pump sprayers have a maximum pressure of 90 psi, and the diaphragm pump sprayers have a maximum pressure of 60 psi.

Solo 473P - three-gallon piston pump	11 lbs.	**13193**	**$87.50**
		3+	**$82.50**
Solo 473D - three-gallon diaphragm pump	11 lbs.	**13192**	**$87.50**
		3+	**$82.50**
Solo 425 – four-gallon piston pump	10 lbs.	**13195**	**$94.50**
		3+	**$91.75**
Solo 475 – four-gallon diaphragm pump	11 lbs.	**13174**	**$97.50**
		3+	**$94.50**
Solo 435 – five-gallon piston pump	14 lbs.	**13181**	**$109.95**
		3+	**$105.95**
Solo 485 – five-gallon diaphragm pump	14 lbs.	**13182**	**$109.95**
		3+	**$105.95**

Note: The piston pumps are designed for use with liquid chemicals. The diaphragm pumps are designed for use with powdered and liquid chemicals.

solo

Solo® Deluxe Backpack Sprayers
1842

Features pressure gauge, adjustable brass nozzle, and fold-up handle for easier storage.

You can monitor pressure output (in psi or kPa) while you're spraying, easily adjust your spray pattern from straight stream to mist without removing the nozzle, operate for longer periods of time with less fatigue, and, when you're through, fold up and store the sprayer in seconds! An adjustable pressure regulator allows each sprayer to be adjusted to increments of 15, 30, 45, and 60 psi. Best of all, these deluxe sprayers are as rugged and dependable as their younger brothers and don't lose any of the features that made the 425 and 475 sprayers two of the most popular professional backpack sprayers in the world.

Solo 425 Deluxe Piston Pump	11 lbs.	**13288**	**$108.75**
		3+	**$102.50**
Solo 475 Deluxe Diaphragm Pump	11 lbs.	**13289**	**$111.95**
		3+	**$105.50**
Pressure Cylinder Plug for 425 and 475 Deluxe Models - Increases the sprayer's maximum pressure to 90 psi. Includes o-ring.	1 oz.	**13404**	**$4.95**

Maxi-Guard™ 16 mil Nitrile Gloves
page 616

Accessories for Solo® Backpack Sprayers
6502

Description	Weight	SN	$
Flat Spray Jet	1 oz.	**13280**	**$2.00**
Nozzle, Adjustable Brass – adjusts from cone to straight stream.	2 oz.	**13038**	**$8.75**
Two-Nozzled, 24″ Spray Boom – 24″ Tip spacing	5 oz.	**13172**	**$34.95**
Drift Guard Assembly	5 oz.	**13170**	**$16.95**
Fold-Away Handle – permits easier storage than standard handle on Solo 425 and 475 backpack sprayers.	1 lb.	**13290**	**$12.50**
20″ Extension Tube	3 oz.	**13190**	**$16.95**
60″ Replacement Brass Wand	10 oz.	**13096**	**$34.95**

solo

Solo® 29″ Stainless Steel Universal Wand Assembly
4432

This rugged assembly features a stainless steel 21″ wand, flat fan nozzle, and filter screen combined with commercial grade shut-off valve and fittings. The 3/8″ barb fits a variety of sprayers.

Solo 29″ Stainless Steel Universal Wand Assembly	9 oz.	**13210**	**$24.95**

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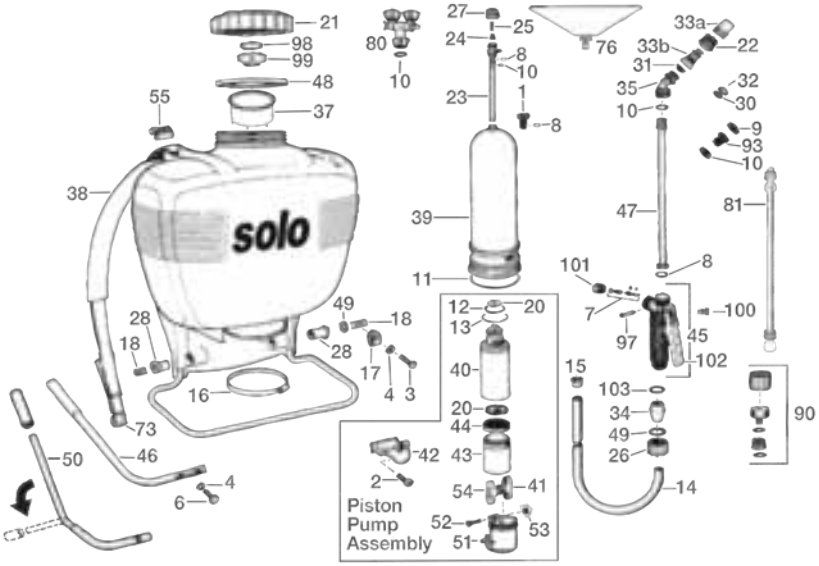
Replacement Parts for Solo® Models 425, 435, 473, 475, 485

1881

Kit Description	Weight	SN	$
Wand Repair Kit w/ items #7, 8, 9, 10, 22, 26, 34, 49, 103	2 oz.	**13440**	**$9.95**
Piston Repair Kit w/ items #10, 11, 12, 13, 20 (2), 24, 25, 44	2 oz.	**13439**	**$19.95**
Piston, Rod, Collar Kit w/ items #41, 42, 43, 44, 54	5 oz.	**13441**	**$19.95**
Diaphragm Pump Repair Kit w/ items #8, 11, 12, 13, 20 (2), 24, 25, 66	2 oz.	**13438**	**$14.95**
Shut-off, Wand, Elbow, Nozzle, Assembly 10, 22, 31, 33, 35, 45, 47	9 oz.	**13209**	**$19.95**
Piston Pump Assembly Complete Kit For 425/435/473P with a Pressure Cylinder Plug	1 lb.	**13454**	**$29.95**
Diaphragm Assembly Complete Kit For 473D/475/485 with a Pressure Cylinder Plug	1 lb.	**13459**	**$29.95**



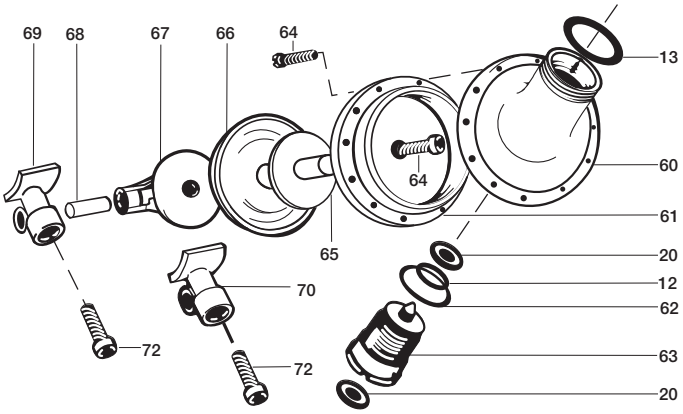
Ref.	Description	Weight	SN	$
1	Pressure Cylinder Plug for 425 and 475 Deluxe Models	1 oz.	**13404**	**$4.95**
2	Screw	1 oz.	**13279**	**$1.80**
3	Screw	1 oz.	**13407**	**$1.80**
4	Washer	1 oz.	**13406**	**$1.80**
6	Screw	1 oz.	**13407**	**$1.80**
7	Shut-Off Valve Repair Kit	2 oz.	**13408**	**$6.50**
8	O-Ring	1 oz.	**13118**	**$2.30**
9	O-Ring	1 oz.	**13101**	**$2.30**
10	O-Ring	1 oz.	**13119**	**$1.95**
11	O-Ring	1 oz.	**13120**	**$2.70**
12	O-Ring	1 oz.	**13121**	**$2.30**
13	O-Ring	1 oz.	**13122**	**$2.30**
14	Hose with Connecting Piece (#34)	6 oz.	**13123**	**$5.95**
15	Hose Clamp	1 oz.	**13124**	**$3.85**
16	Clamp	2 oz.	**13125**	**$4.95**
17	Stop Plate	1 oz.	**13409**	**$3.25**
18	Tube	9 oz.	**13410**	**$4.25**
20	Valve Plate (2 required)	1 oz.	**13129**	**$3.65**
21	Tank Cap w/valve assembly and gasket, #48, 98, 99	4 oz.	**13433**	**$4.95**
22	Retaining Nut	1 oz.	**13131**	**$2.80**
23	Adjustment Piece	1 oz.	**13411**	**$5.05**
24	Sealing	1 oz.	**13412**	**$1.95**
25	Spring	1 oz.	**13413**	**$2.60**
26	Screw Cap	1 oz.	**13135**	**$2.80**
27	Adjustment Cap	1 oz.	**13414**	**$3.65**
28	Bushing	1 oz.	**13137**	**$2.00**
29	Flat Spray Jet	1 oz.	**13280**	**$2.00**
30	Swirl Plate	1 oz.	**13139**	**$1.50**
31	Jet Filter Element	1 oz.	**13140**	**$2.55**
32	Jet Cap	1 oz.	**13141**	**$2.50**
33	Plastic Adjustable Nozzle Assembly (#33A & 33B)	1 oz.	**13039**	**$4.25**
34	Connecting Piece	1 oz.	**13142**	**$2.70**
35	Elbow	1 oz.	**13143**	**$3.25**
37	Filter Basket Assembly	2 oz.	**13145**	**$5.95**
38	Strap, padded, with hook, 435/485/425/475	2 oz.	**13416**	**$5.00**

Ref.	Description	Weight	SN	$
39	Pressure Cylinder	10 oz.	**13147**	**$14.95**
40	Cylinder Assembly item 12,13, 20 incl.	4 oz.	**13148**	**$10.25**
41	Connecting rod w/o stud	1 oz.	**13149**	**$2.15**
42	Lever	2 oz.	**13277**	**$4.75**
43	Piston	2 oz.	**13151**	**$11.40**
44	Viton Collar	1 oz.	**13152**	**$12.50**
45	Shut-Off Valve Assembly	4 oz.	**13417**	**$13.50**
46	Curved Lever w/Hand Grip, mounts left or right	1 lb.	**13418**	**$14.50**
47	20″ Plastic Spray Wand	2 oz.	**13155**	**$9.95**
48	Gasket	1 oz.	**13559**	**$3.95**
49	Washer	1 oz.	**13157**	**$1.80**
50	Fold-Away Handle	1 lb.	**13290**	**$12.50**
51	Protection Cap	1 oz.	**13159**	**$3.75**
52	Fill Head Screw	1 oz.	**13160**	**$1.65**
53	Hex Nut	1 oz.	**13161**	**$1.65**
54	Connecting Rod w/ Stud	1 oz.	**13162**	**$2.15**
55	Strap Holder	1 oz.	**13419**	**$0.95**
73	Hook	1 oz.	**13420**	**$2.95**
74	Hollow Cone Jet Assembly w/ items #9, 30, 32	1 oz.	**13421**	**$2.85**
76	Drift Guard Assembly	5 oz.	**13170**	**$16.95**
80	Twin Nozzle	3 oz.	**13099**	**$29.95**
81	60″ Replacement Brass Wand	10 oz.	**13096**	**$34.95**
84	Gasket	1 oz.	**13423**	**$2.45**
87	110° Deflector Nozzle	1 oz.	**13104**	**$2.50**
88	100° Deflector Nozzle	1 oz.	**13105**	**$2.50**
90	Pressure Gauge Assembly	3 oz.	**13426**	**$29.95**
92	20″ Extension Tube, Requires 13155	3 oz.	**13190**	**$16.95**
93	Check Valve	1 oz.	**13427**	**$4.95**
97	Plastic Pin	1 oz.	**13431**	**$1.50**
98	Vent Diaphragm	1 oz.	**13435**	**$1.75**
99	Vent Cap	1 oz.	**13436**	**$1.60**
100	Lock Clip	1 oz.	**13437**	**$1.80**
101	Retaining Nut	1 oz.	**13442**	**$2.85**
102	Lever	1 oz.	**13432**	**$5.80**
103	O-Ring	1 oz.	**13422**	**$1.65**

Diaphragm Parts for Solo® Models 475/485

1882

Ref.	Description	Weight	SN	$
12	O-Ring	1 oz.	**13121**	**$2.30**
64	Screw	1 oz.	**13268**	**$1.65**
13	O-Ring	1 oz.	**13122**	**$2.30**
65	Plunger	1 oz.	**13269**	**$5.50**
20	Valve Plate	1 oz.	**13129**	**$3.65**
66	Diaphragm	1 oz.	**13270**	**$10.95**
60	Housing	4 oz.	**13264**	**$11.35**
67	Lever	1 oz.	**13271**	**$3.95**
61	Flange	3 oz.	**13265**	**$7.60**
68	Wrist Pin	1 oz.	**13272**	**$4.95**
62	O-Ring	1 oz.	**13266**	**$1.95**
69	Right Bracket	1 oz.	**13273**	**$2.95**
63	Threaded Collar Assembly	2 oz.	**13267**	**$11.80**
70	Left Bracket	1 oz.	**13274**	**$2.95**
72	Screw	1 oz.	**13276**	**$1.95**



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Hudson® Backpack Sprayers

Professional 4-gallon backpack sprayers are individually water-tested at the factory, ensuring the lowest defect and return rate in the industry! High pressure sprayers feature a polyethylene tank marked in U.S. gallons, Imperial gallons, and liters. Other features include large, easy-fill, 6″ tank opening with built-in check valve in the lid to prevent spills, ergonomically-designed pump handle which rotates to upright storage position for easy transporting, long-life spray pistol with brass shut-off pin and double O rings, and brass wand. May be used for herbicides, insecticides, fertilizers, stains, sealers, oil-based products, and solvent-based products. Should not be used with acids.

SP0® Triple Function Bak-Pak® Sprayer

1840

4-Gallon Capacity

Manufacturer's Warranty 1 Year

Features a patented Triple Function Pump which combines the pressure of a piston with the safety of a diaphragm to offer safety from leaks and spraying pressures up to 150 psi (working pressure 15 to 80 psi)! The sprayer also incorporates a unique agitator that recirculates spray solutions with every pump of the handle, making it ideal for wettable and meltable powders. Designed for durability, the sprayer is easy to use, and it's simple to maintain. Features include an exclusive carrying handle built into the lid; brass wand; wand clips; 47″ hose; steel pump handle, base, lever, and hardware; chemical-resistant O-rings and Viton® seals; an elbow connector (to prevent hose damage); an agitation hose for wettable powders; and adjustable shoulder straps. The sprayer includes three plastic flat fan nozzles and an adjustable nozzle that goes from a stream to a cone (mist). Pump module is repairable. One-year warranty from the manufacturer.

Hudson SP0 Triple Function 4-Gallon Triple Function Pump	12 lbs.	**13699**	**$159.50**

SP1® Multi-Purpose Professional Bak-Pak® Sprayer

1840

4-Gallon Capacity

Manufacturer's Warranty 1 Year

This multi-purpose sprayer features a patented diaphragm pump that is capable of two million strokes without leaking (equal to over two years of constant use). The diaphragm pump is designed so that there is no friction between moving parts and no nuts or bolts to tighten or adjust, thereby eliminating leaks from worn out O-rings or gaskets or loose nuts and bolts. In addition, each tamperproof pump is sealed at the factory and then tested to 70 psi before being installed. The diaphragm pump has a working pressure of 15 to 60 psi and a maximum pressure of 70 psi. Other features include a 20″ brass wand; 47″ industrial hose; steel pump handle, base, lever, and hardware; lid with raised carrying handle; wand clips; adjustable padded shoulder straps; adjustable brass nozzle; three flat fan nozzles; and chemical-resistant O-rings and Viton® seals. One-year warranty from the manufacturer.

Hudson SP1 Professional 4-Gallon Diaphragm Pump	12 lbs.	**13680**	**$143.95**

SP2® Piston Pump Bak-Pak® Sprayer

1840

4-Gallon Capacity

Manufacturer's Warranty 1 Year

Constructed using a patented process that completely seals the piston mechanism, this first-ever, leakproof, external piston pump delivers a maximum working pressure of 180 psi and is safe for use with chlorine! Additional features include a tank mouth strainer; a steel folding pump handle with hand grip; steel base, lever, and hardware; Viton® seals and O-rings for maximum chemical resistance; a 20″ brass wand; a 47″ hose; adjustable shoulder straps; a carrying handle built into the lid with clips for wand storage; and an adjustable brass nozzle. Sprayer includes three additional plastic flat fan nozzles. The sprayer's pump module is repairable. One-year warranty from the manufacturer.

Hudson SP2 Professional 4-Gallon Piston Pump	12 lbs.	**13702**	**$159.50**

New! Replacement Parts for Hudson® SP Series Sprayers

1840

Two Padded Straps with Hooks for Hudson SP Series Sprayers	9 oz.	**13734**	**$34.25**
20″ Brass Spray Wand for Hudson SP Series Sprayers	4 oz.	**13735**	**$14.25**
90 Degree Fitting for Hudson SP Series Sprayers	1 oz.	**13736**	**$8.25**
Hose Kit for Hudson SP Series Sprayers	9 oz.	**13737**	**$9.10**
Lever with Hand Grip for Hudson SP Series Sprayers	1 lb.	**13738**	**$18.10**
Sealed Diaphragm Pump for Hudson SP1 Sprayer	13 oz.	**13739**	**$68.25**
Sealed Piston Pump for Hudson SP2 Sprayer	13 oz.	**13740**	**$75.50**
Shutoff for Hudson SP Series Sprayers	4 oz.	**13741**	**$20.50**
Adjustable Brass Nozzle with Holder for Hudson SP Series Sprayers	2 oz.	**13742**	**$12.50**
Tank Cap for Hudson SP Series Sprayers	8 oz.	**13743**	**$12.25**
Tri-Function Pump for Hudson SP0 Sprayer	14 oz.	**13744**	**$76.25**

MSA® Comfo Classic® Respirators page 610

"Fog-Free" Chemical Splash Goggle page 595

DuPont® Tyvek™ Protective Apparel page 615

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Field King™ Backpack Sprayer
7829

4-Gallon Capacity

Manufacturer's Warranty 1 Year

This four-gallon capacity sprayer features a large piston pump that pressurizes with fewer pumps for greater efficiency. The sprayer also features leak-free Viton® seals and gaskets as well as a leak-free shut-off with comfort grip and lock. The large tank opening features a basket filter, and the pump handle can be moved for operation on the left or right side. Other features include a 21″ heavy duty poly wand, gallon graduations molded into the tank, an extra long reinforced hose, and a built-in carry handle. Thick, adjustable padded shoulder straps, a padded waist belt, and built-in lumbar support ensure comfort while you work. Includes four nozzles (adjustable brass, low volume fan tip, high volume fan tip, and foaming). One-year manufacturer's warranty.

Field King Backpack Sprayer	11 lbs.	**13400**	**$59.95**

Field King™ Professional Backpack Sprayer
7622

4-Gallon Capacity

Manufacturer's Warranty 1 Year

Two sprayers in one! This rugged four-gallon capacity sprayer delivers up to 150 psi to easily spray insecticides high into trees and also includes a 25 psi regulator to effectively distribute weed killers. Utilizing a NoLeak system, the internal pump won't leak on the user and ensures safety when spraying. Built for comfort, the sprayer features built-in lumbar support, a padded waist belt, a chest belt, and thick, adjustable padded shoulder straps. The handle moves for left or right pump operation. Other features include an extra long reinforced hose, a built-in carry handle, gallon graduations molded into the tank, and Viton® seals and gaskets. Includes four nozzles (adjustable brass, low volume fan tip, high volume fan tip, and foaming). One-year manufacturer's warranty.

Field King Professional Backpack Sprayer	13 lbs.	**13401**	**$71.75**

Field King™ Max NoLeak Backpack Sprayer
7830

4-Gallon Capacity

Manufacturer's Warranty 1 Year

Delivers up to 150 psi to easily spray insecticides high into trees and also includes a 25 psi regulator to effectively distribute weed killers. Utilizing a NoLeak system, the internal pump won't leak on the user and ensures safety when spraying. Designed for ultimate comfort, the sprayer features built-in lumbar support, a full back padded harness, a padded waist belt, a chest belt, and thick, adjustable padded shoulder straps. The handle folds away for easy storage and is reversible for left or right pump operation. Other features include an extra long reinforced hose, a built-in carry handle, gallon graduations molded into the tank, and Viton® seals and gaskets. Includes four nozzles (adjustable brass, low volume fan tip, high volume fan tip, and foaming). One-year manufacturer's warranty.

Field King™ Max Backpack Sprayer	14 lbs.	**13405**	**$83.95**

W.E. Chapps Pro-Tex™ Covered Shoulder Pads
7453

Providing maximum comfort while working, these shoulder pads attach to the shoulder straps of backpack blowers, backpack sprayers, brush cutters, and large string trimmers. Made of 1/2″ closed cell foam and covered with durable waterproof material. Adjust using Velcro® fasteners.

Pro-Tex Covered Shoulder Pads, One Pair	5 oz.	**13225**	**$27.95**

Field King™ Options and Replacement Parts
7829, 7622, 7830

Adjustable Brass Nozzle Assembly	1 oz.	**13323**	**$2.75**
18″ Poly Curved Extension	2 oz.	**13525**	**$2.65**
25 psi Spray Optimizer, Regulates pressure at 25 psi to improve efficacy when spraying Roundup by reducing the number of small droplets that may drift	1 oz.	**13514**	**$6.95**
14 psi Spray Optimizer, Regulates pressure at 14 psi to improve efficacy when spraying Roundup by reducing the number of small droplets that may drift	1 oz.	**13524**	**$6.95**
Cap Assembly	3 oz.	**13393**	**$6.95**
Fan Tip Assembly	1 oz.	**13392**	**$3.00**
Service Kit	2 oz.	**13391**	**$6.00**

Smith Pro 30″ Universal Sprayer Wand and Shutoff Kit
2421

Universal wand and shutoff kit can be used with a variety of 9/16″ hose sprayers. Includes a 21″ poly wand, adjustable nozzle, and shut-off with filter screen.

Smith Pro 30″ Universal Sprayer Wand and Shutoff Kit	7 oz.	**13320**	**$15.95**

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Chemical Spray Vest
1918

Protects your back and shoulders from chemical sprayer leaks and spills.

Features two large adjustable foam pads for extra cushioning in the shoulders, an extra long back panel and neck collar, and full adjustable side straps. Made of butyl rubber.

Rubber Front Vest	12 oz.	**23397**	**$64.75**
		5+	**$59.75**
Mesh Front Vest	13 oz.	**23396**	**$62.50**
		5+	**$57.75**

W.E. Chapps Chemical Spray Chapps™
3601

Constructed of 11 oz. butyl rubber that offers excellent chemical, tear, and abrasion resistance. Protects from the top of the leg to the top of the foot. Lightweight, flexible and can be put on and taken off without having to remove your shoes. Adjustable straps with Velcro® fasteners attach over a belt. Gray.

Chemical Spray Chapps, Regular – 30˝L	1 lb.	**23446**	**$65.50**
		5+	**$61.50**
Chemical Spray Chapps, Long – 35˝L	1 lb.	**23447**	**$70.50**
		5+	**$66.50**

Hudson® Bak-Pak® Motorized Sprayer
4830

6.5-Gallon Capacity

1 Manufacturer's Warranty 1 Year

Powered by a 1 hp two-cycle engine, this backpack sprayer provides a spray range of up to 29 feet and features four psi settings. The rugged sprayer features a 24˝ chrome-plated brass wand with triple flat-fan nozzles, a 24˝ wand extension, an adjustable high-pressure spray gun, a 48˝ hose, and a brass shutoff valve. The 6.5-gallon tank allows for more spraying with less downtime, and a drain outlet makes chemical changes fast and easy. Adjustable padded shoulder straps and a padded backrest ensure maximum user comfort. One-year manufacturer's warranty.

Hudson Bak-Pak Motorized Sprayer	O	25 lbs.	**13334**	**$489.50**

Hudson® NeverPump® Bak-Pak® Sprayer
4829

4-Gallon Capacity

1 Manufacturer's Warranty 1 Year

More efficient than a manual sprayer, the battery-powered NeverPump provides 10 hours of continuous spraying on a single charge! The mini-diaphragm pump creates a maximum pressure of 65 psi, and four nozzles are included with the sprayer (cone, dual cone, fan, and adjustable). The sprayer also features a 20˝ poly spray wand, a 72˝ PVC power sprayer-style hose, a thumb-operated poly control valve, and an extra large fill opening to help prevent spills when refilling the tank. The sprayer's ergonomic design conforms comfortably to your back, and shoulder straps with adjustable pads ensure a secure fit. The included AC charger completely charges the lead acid battery in 9 hours. One-year manufacturer's warranty.

Hudson NeverPump Bak-Pak Sprayer	R26	18 lbs.	**13333**	**$136.95**

EarthWay

EarthWay® EV-N-SPRED® S25 Spray-PRO Mark III Sprayer
7583

6.6-Gallon Capacity

This walk-behind sprayer takes the hassle out of spraying herbicides, pesticides, fungicides, liquid ice control products, and fertilizers. The ground-driven pump is powered by the turning of the axle as you walk and requires no battery. The sprayer features a 6.6-gallon capacity self-agitating tank, provides a spray width of 2.5′ to 5′, and covers up to 13,000 square feet. A two-mode valve allows for either transport or spray operation. Using transport mode, the pump continues to agitate the material in the tank to maintain the desired mixture. Three different nozzle tips (fine, medium, and coarse) control application rates, and an adjustable height nozzle reduces the spray width for narrow banding operations. The sprayer features a heavy-duty epoxy-coated Diamond chassis. Some assembly required. **Wheel Size:** 13˝. **Wheel Type:** Pneumatic stud type.

EarthWay EV-N-SPRED S25 Spray-PRO Mark III Sprayer	O	32 lbs.	**13150**	**$407.50**

O Oversize. Ships at Oversize rate. See Shipping Information for details.
R26 Restricted. Cannot be sold in AK, HI. Cannot ship by air.

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solo

Solo® Model 433 Motorized Backpack Sprayer

8078

Offers outstanding vertical and horizontal spray range!

Achieve a fine spray mist application even at extreme heights with the Solo 433! This 5.6-gallon capacity high pressure sprayer uses a push-pull piston pump to produce a flow rate of up to 0.528 gallons per minute at 435 psi. The sprayer's 24″ stainless steel spray tube features a pressure gauge on the quick-release handle so that pressure can be matched to suit any application. A heavy-duty 25cc four-stroke Honda engine delivers 1.0 hp. Double flat-jet nozzle with stainless steel nozzle screens included. **Weight (empty):** 18.3 lbs.

Solo Model 433 Motorized Backpack Sprayer	O	26 lbs.	**13088**	**$665.25**

We repair Solo sprayers.
Call 800-752-8460 for information.

solo

Solo® Model 416 Rechargeable Backpack Sprayer

8368

5-Gallon Capacity

Powered by a 12-volt lead-gel rechargeable battery, this sprayer requires no pumping and produces no emissions. Recharge time for the battery is approximately 5 hours, and spray time on a fully-charged battery is approximately 6 hours on the low setting and 3-1/2 hours on the high setting. The two-speed sprayer's low setting will spray up to 22 psi, and the high setting sprays up to 40 psi. Pressure and spraying volume can be adjusted using the high/low toggle switch on the back of the sprayer. Ergonomic, UV-stablilized 5-gallon polyethylene tank and padded shoulder straps with a hip belt. Fitted pressure gauge shock-proofed with silicone, a 20″ wand with 59″ hose, a wand holder, gallon/liter fill markings on the tank, chemical-resistant gaskets and seals, and a large tank opening for easy filling and cleaning. Battery charger and flat spray nozzle included. **Weight (empty):** 14 lbs.

Solo Model 416 Rechargeable Backpack Sprayer	O	19 lbs.	**13470**	**$320.25**

solo

New! Solo® Model 417 Rechargeable Backpack Sprayer

8368

6.6-Gallon Capacity

This whisper-quiet sprayer is powered by a 12-volt lead-gel rechargeable battery, requires no pumping, and produces no emissions. The battery recharges in less than 3 hours, and the sprayer's powerful 12-volt pump features a two-step toggle switch for adjusting pressure and output volume from low (36 psi) to high (62 psi). The ergonomically shaped 6.6-gallon transparent tank is made from UV-resistant high-density polyethylene, features a large 4.25″ opening for easy filling, and has fill level markings in gallons and liters. The padded backpack frame and wide shoulder straps ensure comfort during sprayer operation. In addition, the sprayer features a 28″ spray wand, a 60″ hose, a commercial-quality shut-off valve, and chemical-resistant gaskets and seals. Battery charger and 80° flat spray nozzle included. **Weight (empty):** 17 lbs.

Solo Model 417 Rechargeable Backpack Sprayer	O	23 lbs.	**13469**	**$189.95**

solo

Solo® 451 Mist Blower

7736

Single-cylinder, two-stroke 66.5 cc, 2-stroke engine produces 2.9 hp, has a 1/2 gallon fuel tank capacity and uses low emission technology. Other features include easy starting, fuel pump assisted; effective vibration dampening; single multi-function operating handle; air filtering system with high performance filter; comfortable backpack carrying frame; and wide padded carrying straps.

Spray Tank Volume: 3 gallons. **Air Volume:** Max. 1400 m^3/h for total plant penetration. **Weight (empty):** 23.8 lbs.

Solo 451 Mist Blower	R10	32 lbs.	**13199**	**$766.25**
ULV Nozzle		13 oz.	**13204**	**$64.95**
Liquid Booster Pump		1 lb.	**13202**	**$124.95**

See our website for Insecticides for Mosquito Control
www.forestry-suppliers.com

O Oversize. Ships at Oversize rate. See Shipping Information for details.
R10 Restricted. Cannot be sold in CA.

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1

1 15- & 25-Gallon Economy Spot Sprayers
2213

Both of these sprayers feature a low-profile, corrosion-resistant polyethylene tank, 12V diaphragm pump, 5″ fill lid with tether, 18″ lever handgun with adjustable pattern nozzle, 15′ handgun hose, hose wrap horns for convenient hose storage, gallon and liter volume indicator, and molded wand clips. Pumps 1 gpm at 35 psi. Includes an 8′ battery lead wire with quick coupler and 50 amp battery clip.

Handgun maximum vertical throw: 12′. **Handgun maximum horizontal throw:** 25′.

15-Gallon Sprayer	O	15 lbs.	**14030**	**$109.95**
25-Gallon Sprayer	O	20 lbs.	**14031**	**$119.95**
12V Pump, 1 gpm, 4 amp		2 lbs.	**14051**	**$62.25**
			3+	**$57.25**
12V DC Adapter		6 oz.	**14054**	**$15.50**
Replacement Switch Includes cable and alligator clamps		4 oz.	**14058**	**$14.25**

2

2 12-Volt DC Variable Pattern 15- & 25-Gallon Sprayers
1560

Use with clean water for decontamination in emergency situations.

The gentle shower sprayer feature quickly washes chemicals from face, eyes, hands, etc. Other uses include refilling smaller hand-held sprayers and watering plants and shrubs during transport. Aluminum spray gun adjusts to four spraying patterns – sharp stream, stream, flat spray, and gentle shower. The sharp stream feature sprays approximately 20 feet. Spray output is approximately 2.1 gallons per minute. Fits on truck bed or utility trailer. Comes with 12-volt pump unit with automatic shut-off, 25′ x 3/8″ hose, your choice of 15- or 25-gallon tank, and 9′ lead wire with alligator clips for connecting to 12-volt battery (not included).

Maximum vertical throw: 12′. **Maximum horizontal throw:** 20′. **Dimensions:** 15-gallon, 14″W x 14″H x 31″L; 25-gallon, 18″W x 17″H x 36″L.

15-Gallon, 12V DC Variable Pattern Sprayer	O	18 lbs.	**14027**	**$211.75**
25-Gallon, 12V DC Variable Pattern Sprayer	O	23 lbs.	**14028**	**$214.50**
12V Pump, 2.1 gpm, 8 amp		2 lbs.	**14050**	**$84.25**
			3+	**$80.50**
12V DC Adapter		6 oz.	**14054**	**$15.50**
Replacement Switch, Includes cable and alligator clamps		4 oz.	**14058**	**$14.25**

3

3 15- & 25-Gallon 12 Volt Spot Sprayers
1866

Pressure gauge, 15′ of 3/8″ hose and low-profile polyethylene tank with molded recesses on tank ends for handles or hose storage. Tanks feature a 5″ screw-on cap for easy filling, molded gallon marks, and six molded inserts on the bottom for easy installation. A 12V diaphragm pump draws 10 amps. Adjustable pressure range of 0-60 psi for easy calibration. Handgun maximum vertical throw is 26′, and handgun maximum horizontal throw is 35′. 9′ lead wire with on/off switch and alligator clips included for battery connection. **Output:** 2.1 gpm.

15-Gallon Sprayer with Spray Gun

Features a 31″L x 14″W x 14″H tank which can be operated with an optional 5-nozzle boom kit with a 100″ swath (sold separately). Permanently mounts to an ATV. Spray booms are accommodated with an optional ATV mounting kit (sold separately). Fits most ATVs.

15-Gallon Deluxe Manifold Spot Sprayer	O	18 lbs.	**14002**	**$170.00**
Replacement Switch Includes cable and alligator clamps		4 oz.	**14058**	**$14.25**

25-Gallon Sprayer with Spray Gun

Features a 36″L x 18″W x 17″H tank and a standard 18″ aluminum spray gun with trigger lock. May be operated with an optional five-nozzle boom kit with a 100″ swath (sold separately). Permanently mounts to an ATV. Spray booms are accommodated with an optional ATV mounting kit (sold separately). Fits most ATVs.

25-Gallon Deluxe Manifold Spot Sprayer	O	23 lbs.	**14003**	**$180.00**
Replacement Switch Includes cable and alligator clamps		4 oz.	**14058**	**$14.25**

Spot Sprayer Accessories

12V Pump, 2.1 gpm, 8 amp	2 lbs.	**14050**	**$84.25**
		3+	**$80.50**
Boom Kit for Spot Sprayers	30 lbs.	**14033**	**$201.00**
12V DC Adapter	6 oz.	**14054**	**$15.50**

ATV Accessories pages 190 & 191

O Ships at Oversize rate. See Shipping Information for details.

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1 25-Gallon ATV Sprayer with Stainless Steel Wetboom Boomless Nozzle
3760

With a full 30´ spraying swath, this sprayer is ideal for spraying mosquitoes, ditches, parks, pastures, fence rows, bean and corn crops, yards and much more. A Stainless Wet Boom integrates the boom, hose, and boomless nozzles. The spray tips are color coded for on/off positions and are metered to easily adjust at 15° angle increments. Other features include a 3.8 GPM, 12V Diaphragm demand style pump; adjustable pressure range up to 45 PSI; a pressure gauge; a handgun with adjustable pattern tip and 15´ of hose; a 25-gallon corrosion-resistant polyethylene tank with full sump for easy draining; and universal mounting brackets which fit most ATV cargo racks.

Output: 3.8 gpm. **Handgun Maximum Vertical Throw:** 26´. **Handgun Maximum Horizontal Throw:** 35´. **Dimensions:** 45˝L x 15˝W x 20˝H.

25-Gallon ATV Sprayer with Stainless Steel Wetboom Boomless Nozzle	O	62 lbs.	**14035**	**$399.95**

2 25-Gallon ATV Sprayer with Deluxe 7-Nozzle Folding Boom
2216

This ATV sprayer features a 25-gallon corrosion-resistant polyethylene tank, 12V diaphragm demand-style pump, handgun with adjustable pattern nozzle, 15´ of hose, and a 7 nozzle, 3-section folding boom with 140˝ spray coverage. The shielded boom features no-drip diaphragm check valve nozzles. Pumps 3.8 gpm at an adjustable pressure range of 0 to 45 psi. AIXR spray tips produce larger droplets that help reduce the drifting of chemical to neighboring properties or waterways. A molded-in drain port, cap, and tether provides full drain out capability. The universal mount fits most ATV units.

Output: 3.8 gpm. **Handgun maximum vertical throw:** 26´. **Handgun maximum horizontal throw:** 35´. **Dimensions:** 36˝L x 18˝W x 17˝H.

25-Gallon ATV Sprayer	O	65 lbs.	**14032**	**$414.95**

3 60-Gallon Boomless Nozzle Utility Skid Sprayer
4425

This skid sprayer features a boomless nozzle which offers full 30´ coverage. Other features include a stainless steel boom, corrosion-resistant polyethylene tank, 12V diaphragm pump, adjustable pressure gauge (adjustable from 0 to 45 psi), and a deluxe pistol-grip handgun with an adjustable nozzle and 25´ of hose.

Output: 3.8 gpm. **Handgun maximum vertical throw:** 26´. **Handgun maximum horizontal throw:** 35´.

60-Gallon Sprayer	F	133 lbs.	**14060**	**$642.75**

4 Fimco 40-Gallon Spot Sprayer with Handgun
2422

This spot sprayer features a 40-gallon corrosion-resistant polyethylene tank and uses a 12-volt demand-style high-flo diaphragm pump to deliver up to 45 psi with a spray output of 3.8 gallons per minute. The deluxe handgun features an adjustable pattern tip and includes 25´ of hose. The sprayer also features a 5˝ fill lid with tether, fluid volume indicator with both gallon and liter graduations, poly clips for handgun storage, a fully drainable sump, and an 8´ wire harness with clips and on/off switch.

Handgun Maximum Vertical Throw: 26´. **Handgun Maximum Horizontal Throw:** 35´.

Fimco 40-Gallon Spot Sprayer with Handgun	O	57 lbs.	**14036**	**$335.00**

F Ships Motor Freight. See Shipping Information for details.
O Oversize. Ships UPS 30 lb. rate. See Shipping Information for details.

1

Max Vert. Throw	26´
Max Horz. Throw	35´

2

Max Vert. Throw	26´
Max Horz. Throw	35´

3

Max Vert. Throw	26´
Max Horz. Throw	35´

4

Max Vert. Throw	26´
Max Horz. Throw	35´

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1

Made in USA

Max Vert. Throw	25′
Max Horz. Throw	35′

2

Made in USA

Max Vert. Throw	33′
Max Horz. Throw	48′

Herbicides
pages 164 thru 167

3

Made in USA

Max Vert. Throw	30′
Max Horz. Throw	45′

14024

1 Fimco 40-Gallon 3-Point Sprayer

4738

This sprayer quickly attaches to a three-point hitch and features a rugged, bolted-on frame. The 12V demand-style high-flo diaphragm pump delivers 2.1 gpm at up to 60 psi. Other features include a 40-gallon polyethylene tank, a four-nozzle boom that provides 120″ of spray coverage, and an adjustable pressure gauge. AIXR spray tips produce larger droplets that help reduce the drifting of chemical to neighboring properties or waterways. Break-away hinges on the three-section folding boom make transport easy. Also includes a deluxe pistol-grip handgun with 25′ of hose and an 8′ lead wire with a remote switch.

Handgun Maximum Vertical Throw: 25′. **Handgun Maximum Horizontal Throw:** 35′.

Fimco 40-Gallon 3-Point Sprayer	O	80 lbs.	**14049**	**$370.00**

2 Fimco 55-Gallon 3-Point Sprayer

2423

This sprayer attaches in just minutes to a three-point hitch, with no trailer or skid needed! Features a 55-gallon corrosion-resistant polyethylene tank and a seven-nozzle boom that provides 140″ spray coverage. AIXR spray tips produce larger droplets that help reduce the drifting of chemical to neighboring properties or waterways. Break-away hinges on the three-section folding boom allow for easy transport. Also features single manual lever on/off boom control, a pressure-adjusting relief valve, and a pressure gauge. Equipped with pump kit to fit most roller pumps (pump not included).

Maximum Vertical Throw: 33′.
Maximum Horizontal Throw: 48′.

Fimco 55-Gallon 3-Point Sprayer	F	180 lbs.	**14046**	**$607.75**

Fimco 6-Roller Pump with Coupler and Torque Arm Kit

2424

Includes PTO coupler and torque arm to support hoses and pump thrust on a three-point sprayer.

Fimco 6-Roller Pump with Coupler and Torque Arm Kit		15 lbs.	**14047**	**$195.50**

3 2.5 hp, 60-Gallon Gasoline-Powered Skid Sprayer

1867

This 60-gallon skid sprayer features a 2.5 HP Hypro gas engine which powers a 4-roller pump that delivers 6 gpm with an adjustable pressure range of 0-120 psi. Polyethylene tank and a 25′, 3/8″ hose with a 20″ heavy-duty aluminum handgun. Handgun rotates 360° to operate spray valve from shut-off to maximum flow position. Maximum spray throw is approximately 22′ to 25′. Mounted on a heavy-duty steel skid, can be transported on a truck bed or with optional trailer kit. Trailer kit includes 15/600 pneumatic tires. Trailer and pneumatic tires are not approved for highway use. 5-nozzle (100″ swath) boom kit available.

Dimensions (with skid): 22″W x 26″H x 60″L. **Maximum vertical throw:** 30′. **Maximum horizontal throw:** 45′.

2.5 hp, 60-Gallon Skid Sprayer	F	155 lbs.	**14016**	**$824.25**
Trailer Kit for 60-Gallon Skid Sprayer		50 lbs.	**14022**	**$230.75**
5-Nozzle Boom Kit		24 lbs.	**14024**	**$188.25**

O Oversize. Ships UPS 30 lb. rate.
F Ships Motor Freight.

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1 Fimco 25-Gallon Boomless Trailer Sprayer
4737

This sprayer uses a 12V demand-style high-flo diaphragm pump to deliver 3.8 gpm at 45 psi. The 25-gallon corrosion-resistant polyethylene tank features a low-profile design for greater overall stability and offers full drain-out capability with a molded-in drain port, cap, and tether. The boomless nozzle provides 28′ of spray coverage. Nozzles can be adjusted to spray right or left only. Pistol-grip handgun with adjustable nozzle and 15′ of hose also included.

Handgun Maximum Vertical Throw: 26′. **Handgun Maximum Horizontal Throw:** 35′.

Fimco 25-Gallon Boomless Trailer Sprayer	O	62 lbs.	**14048**	**$354.95**

Made in USA

Max Vert. Throw	26′
Max Horz. Throw	35′

2 60-Gallon Tow-Behind Sprayers
2610

Each 60-gallon tow-behind sprayer features a 12V diaphragm pump with 3.8 gpm output and an adjustable pressure range up to 60 psi. The corrosion-resistant polyethylene tank has a 5″ fill lid with tether and offers full drain-out capability with a molded-in drain port, cap, and tether. The sprayer also features a multi-purpose #30L low-pressure Gunjet. The low profile trailer features 18″ pneumatic tires on wheels with cone bearings in a hub and spindle configuration. Trailer and pneumatic tires are not approved for highway use. Two models are available. The seven-nozzle, three-section spray boom model covers a 140″ swath and features AIXR spray tips that produce larger droplets to help reduce the drifting of chemical to neighboring properties or waterways. The boomless nozzle model offers full 30′ coverage.

Handgun maximum vertical throw: 26′. **Handgun maximum horizontal throw:** 35′.

Sprayer with Seven-Nozzle Boom	F	240 lbs.	**14042**	**$943.50**
Sprayer with Stainless Steel Wetboom Boomless Nozzle	F	269 lbs.	**14043**	**$1006.25**
Remote Control Kit for 12V Sprayers		11 oz.	**14029**	**$63.95**

Made in USA

Max Vert. Throw	26′
Max Horz. Throw	35′

3 Smucker Super Sponge® Weed Wiper ATV Herbicide Applicator
7159

Applies herbicide precisely where it's needed!

A highly efficient way to control taller weeds! The Super Sponge attaches to your ATV and utilizes industrial-strength crusted sponges to apply herbicide directly onto target weeds with no drift or dripping. A patented gravity feed system provides precise metering for even application and outstanding coverage with maximum saturation. A universal mounting bracket attaches to the front or rear rack of your ATV and allows you to adjust the sponge height. A spot sprayer is required for use. Two models are available – the Super Sponge unit with a 15-gallon spot sprayer and pump (ships in two boxes) or the Super Sponge unit only for use with your own spot sprayer.

5 Ft. Super Sponge Weed Wiper with 15-Gallon Sprayer and 1 gpm Pump	36 lbs.	**14041**	**$543.00**
5 Ft. Super Sponge Weed Wiper Only	20 lbs.	**14044**	**$377.00**

O Oversize. Ships UPS 30 lb. rate.
F Ships Motor Freight.

[search engine powered by magazooms.com]

1

Max Vert. Throw	37′
Max Horz. Throw	49′

Made in USA

1 Fimco 5.5 hp, 300-Gallon Gasoline-Powered Deluxe Skid Sprayer

2425

This large-capacity, low-profile skid sprayer features a 300-gallon polyethylene tank and a reliable 5.5 HP Honda engine. The three-diaphragm pump delivers 10.6 gpm at 580 psi. Includes a heavy-duty, high-pressure pistol-grip handgun (pressure up to 800 psi) that is ideal for use in tree spraying or fighting grass fires. Also included is a low-pressure handgun (pressure up to 200 psi) for applying lawn care products. The electric rewind hose reel comes with 300′ of 1/2″ PVC hose (600 psi), and a spool kit helps to draw the hose from the reel at right angles. **Maximum Vertical Throw:** 37′. **Maximum Horizontal Throw:** 49′.

Fimco 5.5 hp, 300-Gallon Gasoline-Powered Deluxe Skid Sprayer	F 470 lbs.	**14037**	**$4300.00**

2

Max Vert. Throw	32′
Max Horz. Throw	46′

Made in USA

2 5.5 hp, 200-Gallon Commercial Skid Sprayer

2214

Ideal for weed and insecticide spraying! This 200-gallon skid sprayer features a 5.5 Briggs & Stratton engine, an 8 roller pump, hand rewind hose reel with 300′ of 1/2″ two-braid rubber hose, tank agitator, a heavy duty grip handgun, and a suction line strainer. The sprayer pumps 7.8 gpm at 250 psi. **Maximum vertical throw:** 32′. **Maximum horizontal throw:** 46′.

5.5 hp, 200-Gallon Commercial Skid Sprayer	F 330 lbs.	**14038**	**$2275.00**

3

Max Vert. Throw	37′
Max Horz. Throw	46′

Made in USA

3 6.5 hp, 200-Gallon Gasoline-Powered High-Pressure Skid Sprayer

6346

Heavy-duty 200-gallon, skid-mounted sprayer slides into a van or pickup, or can be mounted to a trailer. Attach the wiring clips to a 12-volt power source, fill the tank with chemical, and the sprayer is ready to use. Equipped with a 6.5 HP Hypro engine and a three-diaphragm (or triple diaphragm) pump that delivers up to 10 gpm at a pressure of up to 550 psi. Corrosion-resistant polyethylene tank is equipped with an agitator to prevent chemical settling. Includes a high-pressure, 23″ pistol grip aluminum handgun with a maximum spray throw of approximately 30′, trigger handle control, and a 1/2″ NPT(F) inlet connection. Features easy-to-clean line strainers and a 20′ lead wire with on/off switch and heavy-duty alligator clips for battery connection, and a 12-volt electric hose reel for rewinding the 300′, 1/2″ I.D. PVC hose (included). **Dimensions (with skid):** 38″W x 48″H x 77″L. **Maximum vertical throw:** 37′. **Maximum horizontal throw:** 46′.

6.5 hp, 200-Gallon Gasoline-Powered High-Pressure Skid Sprayer	F 340 lbs.	**14018**	**$3717.00**

F Ships Motor Freight. See Shipping Information for details.

[search engine powered by magazooms.com]

1 Kings Sprayers® Skid Sprayer with 5 hp Honda® Engine & 4-Roller Pump

4728

This skid sprayer incorporates a 5 hp Honda® engine with a 4-roller pump to deliver 7 gpm at a pressure of up to 150 psi. The polyethylene PCO tank features an 8″ fill-well with a vented lid. Other features of the sprayer include a high-pressure spray gun with quick disconnects, adjustable pressure regulator, hydraulic jet agitation, liquid-filled pressure gauges, and a remote-mounted suction strainer with shut-off valve. The all-welded, 6061 aircraft-grade aluminum frame will not rust, and the hose and plumbing are chemical-resistant. Includes 50′ of 3/8″ high-pressure sprayer hose. Five-year warranty on frame and tank. One-year warranty parts and labor. Made in USA.

50-Gallon Skid Sprayer	F	180 lbs.	**14094**	**$1815.00**
100-Gallon Skid Sprayer	F	250 lbs.	**14095**	**$1971.00**

1

Made in USA

Manufacturer's Warranty 1 Year

2 Kings Sprayers® Skid Sprayer with 5 hp Honda® Engine & Diaphragm Pump

4728

This skid sprayer combines a 5 hp Honda® engine with a diaphragm pump that delivers 5 gpm at a pressure of up to 275 psi. The polyethylene PCO tank features an 8″ fill-well with a vented lid. Other features include a high-pressure spray gun with quick disconnects, adjustable pressure regulator, hydraulic jet agitation, liquid-filled pressure gauges, and a remote-mounted suction strainer with shut-off valve. The all-welded, 6061 aircraft-grade aluminum frame will not rust, and the hose and plumbing are chemical-resistant. Includes 50′ of 3/8″ high-pressure sprayer hose. Five-year warranty on frame and tank. One-year warranty parts and labor. Made in USA.

50-Gallon Skid Sprayer	F	180 lbs.	**14096**	**$2269.00**
100-Gallon Skid Sprayer	F	250 lbs.	**14097**	**$2456.00**

2

Made in USA

Manufacturer's Warranty 1 Year

3 Kings Sprayers® Skid Sprayer with 5.5 hp Honda® Engine & Diaphragm Pump

4728

This skid sprayer features a 5.5 hp Honda® engine and a diaphragm pump that delivers 10 gpm at a pressure of up to 560 psi. The polyethylene PCO tank features an 8″ fill-well (12″ fill-well on 200-gallon model) with a vented lid. Also features a high-pressure spray gun with quick disconnects, adjustable pressure regulator, hydraulic jet agitation, liquid-filled pressure gauges, and a remote-mounted suction strainer with shut-off valve. The all-welded, 6061 aircraft-grade aluminum frame will not rust, and the hose and plumbing are chemical-resistant. Includes 50′ of 3/8″ high-pressure sprayer hose. Five-year warranty on frame and tank. One-year warranty parts and labor. Made in USA.

50-Gallon Skid Sprayer	F	190 lbs.	**14091**	**$2882.00**
100-Gallon Skid Sprayer	F	260 lbs.	**14092**	**$2987.00**
200-Gallon Skid Sprayer	F	330 lbs.	**14093**	**$3227.00**

Accessories for Kings Sprayers® Skid Sprayers

4728

12′ Spray Boom	X	50 lbs.	**14086**	**$535.00**
18′ Spray Boom	F	60 lbs.	**14087**	**$675.00**
Stainless Steel Boomless Nozzle with 22′ Spray Pattern		3 lbs.	**14088**	**$190.00**
12″ Manual Hose Reel with 150′ of 3/8″ High-Pressure Hose		70 lbs.	**14089**	**$610.00**
12″ Manual Hose Reel with 300′ of 3/8″ High-Pressure Hose		95 lbs.	**14090**	**$745.00**

F Ships Motor Freight. See Shipping Information for details.
X Items 60″ or more require an additional handling charge.

3

Made in USA

Manufacturer's Warranty 1 Year

[search engine powered by magazooms.com]

Spray Gun with Nozzle
7239

This spray gun's pistol grip offers excellent control and comfort. Provides flow rates up to 5 gpm at 300 psi. Features an 18″ aluminum wand and adjustable pattern tip (cone to straight stream).

Spray Gun with Nozzle 1 lb.	**14085**	**$23.50**

Sprayer Accessories & Replacement Parts
8357, 2314

Stainless Steel Wetboom Boomless Nozzle Kit
Requires a 3.8 gpm pump for use.

30′ Total Swath Coverage	16 lbs.	**14073**	**$200.25**

Nozzle Assembly for Boomless Nozzle Sprayer

Center Nozzle Assembly for Boomless Nozzle Sprayer	4 oz.	**14056**	**$15.50**
End Nozzle Assembly for Boomless Nozzle Sprayer	5 oz.	**14057**	**$49.95**
Nozzle Cap	1 oz.	**12938**	**$1.55**

Sprayer Hoses

3/8″ Two-Spiral Braid Sprayer Hose, 25′ 3 lbs.	**14079**	**$15.50**
3/8″ Two-Spiral Braid Sprayer Hose, 50′ 8 lbs.	**14080**	**$34.25**

Strainer

Strainer 1 oz.	**12837**	**$1.30**

Replacement Parts and Accessories for Spot Sprayers
2314

12V DC Adapter	6 oz.	**14054**	**$15.50**
Replacement Switch – Includes cable and alligator clamps	4 oz.	**14058**	**$14.25**

12V Wireless Remote Control
Use to wirelessly turn your 12V sprayer on and off. Perfect for the operation of sprayers mounted on ATVs, utility vehicles, or pickup hitches. An easy-to-install remote control module connects between the battery and pump or motor. The wireless remote has a range of up to 250 feet.

12V Wireless Remote Control	4 oz.	**14039**	**$29.50**

Economy Handgun for Spot Sprayers
2314

Economy Handgun for Spot Sprayers 8 oz.	**14055**	**$10.50**

Replacement Pumps for Spot Sprayers
2314

12V Pump, 1 gpm, 4 amp	2 lbs.	**14051**	**$62.25**	12V Pump, 2.1 gpm, 8 amp	2 lbs.	**14050**	**$84.25**	12V Pump, 3.8 gpm, 11 amp	5 lbs.	**14052**	**$111.95**
		3+	**$57.25**			3+	**$80.50**			3+	**$106.50**

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SpotOn® Nozzle Cleaner
4609

Easy to use, this nozzle cleaner produces a 50 psi air blast to quickly clear plugged nozzles. Simply pull the plunger back, fully compress the plunger, and then depress the valve on the end of the nozzle cleaner to release a blast of compressed air. Features rugged nylon plastic construction, a foam rubber handgrip, and a belt/pocket clip. Includes a 4-in-1 spray tip maintenance tool that features a brush, a plastic pick, a spanner wrench, and a utility hook. One-year warranty from the manufacturer.

Blast Pressure: 50 psi. **Dimensions:** 1.5″ dia. x 10″L. **Weight:** 0.4 lbs.

SpotOn Nozzle Cleaner	7 oz.	**14014**	**$44.95**

Note: This product can produce flying debris. Eye protection is recommended.

SpotOn® Spray Tip Pressure Tester
7992

This digital tester reliably checks nozzle pressure to ensure the accuracy of your sprayer's pressure sensor or gauge. The tester features one-button operation and installs between the nozzle and nozzle body using industry-standard quick connects. The digital display reads in PSI, Bars, or kPa. A shockproof rubber covering on the housing protects against drops.

Range: 3.0 to 160.0 PSI; 0.20 to 11.00 Bars; 20 to 1100 kPa. **Accuracy:** ±2% or ±1 PSI; ±0.07 Bars; ±7 kPa. **Resolution:** 0.5 PSI; 0.05 Bars; 5 kPa.

SpotOn Spray Tip Pressure Tester	5 oz.	**14013**	**$119.00**

Note: For test gauge use only. Not for continuous use.

SpotOn® SC-1 and SC-4 Sprayer Calibrators
7992

Made in USA

Accurately check the flow rate of individual sprayer nozzles in just seconds! By obtaining the true flow rate, costly over or under application of chemicals can be avoided and worn spray nozzle tips can be found. Hold calibrator under the nozzle at a slight angle. Allow calibrator to fill until display shows the flow rate. Readings are obtained in 10 seconds or less per tip and are shown in GPM, oz./min., or Liter/min. Display holds 90 seconds. Waterproof and constructed of break-resistant plastic and stainless steel, features a clear design for easy cleaning. No moving parts.

SpotOn® SC-1 Sprayer Calibrator Best for flow rates below 1 GPM, including spray tips for herbicide and insecticide application. **Measurement Range:** 0.02 to 1.00 GPM, 3 to 128 oz./min., 0.08 to 3.79 L/min. (higher flow rates possible with reduced accuracy). **Accuracy:** Greater of ±2.5% or one least significant digit. **Resolution:** 0.01 GPM, 1 oz./min., 0.01 L/min. **Battery:** Two N size alkaline batteries (included). **Battery Life:** Two years, meter has low battery indicator. **Dimensions:** 9.25″H x 2.25″ dia. **Weight:** 0.52 lbs. **SpotOn® SC-4 Sprayer Calibrator** Best for flow rates between 1 to 4 GPM. Check liquid fertilizer, irrigation, and sprinkler nozzle flow rates. **Measurement Range:** 0.07 to 4.00 GPM, 9 to 512 oz./min., 0.27 to 15.0 L/min. (higher flow rates possible with reduced accuracy). **Accuracy:** Greater of ±4% or one least significant digit. **Resolution:** 0.01 GPM, 1 oz./min., 0.01 L/min. **Battery:** Two N size alkaline batteries (included). **Battery Life:** Two years, meter has low battery indicator. **Dimensions:** 10″H x 4″ dia. **Weight:** 1.2 lbs.

SpotOn SC-1 Sprayer Calibrator	10 oz.	**14005**	**$149.95**
SpotOn SC-4 Sprayer Calibrator	2 lbs.	**14006**	**$218.95**

SC-1

SC-4

Wind Sock
4313

Highly visible indicators of wind direction and speed! These windsocks are made of high-quality international orange PVC over nylon, which is incredibly durable and stays colorfast longer than other materials. The frames (sold separately) are made from corrosion-resistant aluminum and mount on a standard 1.25″ outside diameter pipe. Buy the same diameter frame and windsock for a perfect fit.

10″ Dia. x 30″L Sock	7 oz.	**89045**	**$28.50**
10″ Dia. Frame	1 lb.	**89038**	**$54.50**
18″ Dia. x 48″L Sock	1 lb.	**89046**	**$33.95**
18″ Dia. Frame	2 lbs.	**89036**	**$60.95**
24″ Dia. x 96″L Sock	3 lbs.	**89047**	**$58.95**
24″ Dia. Frame	3 lbs.	**89040**	**$85.95**

Davis® Vantage Vue™ Weather Station page 503

Pesticide Warning Signs
1147

Meet or exceed EPA requirements for pesticide warning signs.

Each sign measures 21″ x 14″, features black and red print and is made of high-density polyethylene. Signs have space at the bottom for writing in the name of the chemical used, the application date, and the re-entry date. Sold individually.

Pesticide Warning Sign 4 oz.		**25030**	**$3.85**
		25+	**$3.60**
		50+	**$3.20**

"CAUTION PESTICIDE APPLICATION" PVC Stake Flags
1125

Pesticide application warning flags are 4″ x 5″ with 24″ PVC stakes that spring back when run over. Price for 100 Flags (2 bundles of 50).

24″ PVC Stake Fluorescent Orange 2 lbs.		**33527**	**$13.60**
		10+	**$11.45**

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EarthWay®

EarthWay® EV-N-SPRED® Commercial Spreaders

1930

These commercial spreaders are available in two hopper sizes and offer long-lasting commercial components at an affordable price. Commercial quality features include a positive flow control linkage, EV-N-SPRED 3-port glass-filled nylon shut off, corrosion-resistant polyethylene hopper with hopper screen to avoid clogging caused by fertilizer clumps, adjustable three-position handle with comfortable foam grips, rugged 1″ diamond chassis frame, and large 13″ x 4″ pneumatic tires on corrosion-resistant poly rims. Also has strong, extra-large enclosed gears. All models ship unassembled.

Capacity: Model 2150, 50 lbs.; Models 2170 and 2170T, 100 lbs.

Model 2150
Capacity: 50 lbs. hopper.

Model 2150	Ⓞ	25 lbs.	**69168**	**$190.25**
			3+	**$179.95**

Model 2170
Capacity: 100 lb. hopper.

Model 2170	Ⓞ	28 lbs.	**69173**	**$212.50**
			3+	**$201.75**

Model 2170T Tow Spreader
The same features as Model 2170.
Capacity: 100 lb. hopper.

Model 2170T	Ⓞ	27 lbs.	**69174**	**$212.50**
			3+	**$201.75**

EarthWay®

EarthWay® EV-N-SPRED™ Heavy-Duty Professional Spreaders

1931

50 lb. and 100 lb. Capacities

These heavy-duty professional spreaders offer superior performance, low maintenance, and long life. New heavy duty axle bearings with 13″ x 5″ turf tires on non-corrosive poly rims. Three-position adjustable ergo-handle with "T-Speed" rate control. Hopper screens and positive control solid linkage (no cables to kink or stretch) are common features. The Dual Port® adjustable shut-off plate allows for perfectly balanced left and right distribution, eliminating the need to criss-cross spread patterns. Completely enclosed, self-lubricating gears provide years of use.

EarthWay® C22HD – 50 lb. Spreader
Powder-coated frame. Shipped unassembled.
Capacity: 50 lbs.

EarthWay C22HD	Ⓞ	28 lbs.	**69038**	**$255.25**

EarthWay® C24HD – 100 lb. Spreader
Powder-coated frame. Shipped unassembled.
Capacity: 100 lbs.

EarthWay C24HD	Ⓞ	31 lb.	**69007**	**$365.95**

EarthWay® C24HDS – 100 lb. Spreader
Stainless steel frame. Shipped unassembled.
Capacity: 100 lbs.

EarthWay C24HDS	Ⓞ	33 lbs.	**69008**	**$530.50**

Ⓞ Oversize. Ships at Oversize rate. See Shipping Information for details.

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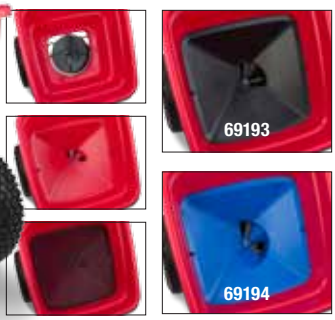

EarthWay

EarthWay® Model 2040PiPlus High-Output Broadcast Spreader

7590

65 lb. Capacity

Ideal for spreading rock salt, grit, dry sand, seed mulch products, and pelletized products. Features the EV-N-SPRED High-Output Shut-Off System, 65 lb. capacity rustproof poly hopper, 9″ high-flotation pneumatic tires on rustproof poly rims, epoxy powder-coated chassis, and high speed gearbox.

EarthWay Model 2040PiPlus 16 lbs.	O	69006	$128.75

Note: Not for use with chemical fertilizer or other chemical material applications.

EarthWay

New! EarthWay® EV-N-SPRED® FLEX-SELECT™ Commercial Spreaders

4901

5 Manufacturer's Warranty 5 Year

Versatile and rugged, these spreaders feature an Interchangeable Tray System that allows you to switch trays depending on the type of material used and the output rate needed. The included Standard Output Tray evenly applies common granular materials (fertilizers) and features a Dual Port Pro Adjustable Shut-Off System that balances the spread pattern over the full 180° spread width. Interchangeable High Output and Low Output Trays (each sold separately) install quickly and let you customize the spreader according to your needs. Each spreader features a "floating" super-duty gearbox for long life, lever and gauge rate control with adjustable solid linkage, ergonomic handle with height adjustment, single-tube "Diamond Design" commercial epoxy powder-coated chassis, and 13″ diameter stud-type tires on rust-proof poly rims. Debris screen included. Ships semi-assembled. Five-year limited warranty from the manufacturer.

Model F80, 80 lb. Hopper 28 lbs.	O	69191	$239.95
Model F130, 130 lb. Hopper 32 lbs.	O	69192	$284.95

Low Output Tray and Shut-Off Kit, For use in low volume spreading of small gauge materials such as grass seed and specialty chemicals at low application rates. Features the EarthWay exclusive oscillating shut-off with six integrated "lip edge" agitators to keep fine materials flowing smoothly and evenly.

4 lbs.		69193	$99.95

High Output Tray and Shut-Off Kit, Designed for the application of large granular materials such as rock salt, ice melt, and sand at high application rates. Features the EarthWay exclusive oscillating shut-off with six integrated "lip edge" agitators to improve the flow of difficult-to-spread materials.

3 lbs.		69194	$99.95

Insect Repellents pages 648 and 649

EarthWay

EarthWay® EV-N-SPRED® Model M40ECM 12-Volt Professional Broadcast Spreader

7604

100 lb. Capacity

Designed for use with your ATV, utility vehicle, ZTR mower, or golf cart. An exclusive electronic control module remotely turns the motor on/off and controls material flow. A numbered rotary-dial rate control allows for positive setting control and easy repeatability. The EV-N-SPRED PRO Dual Port Adjustable Shut-Off controls the balance of the spread pattern on the left and right side throwing ports to equal the center. An optional Motor Speed Control that reduces spread width in small areas is also available. A stainless steel chassis supports the 100 lb. capacity rustproof poly hopper and features an integrated vertical or horizontal mounting system. The high-torque 12-volt motor is protected by a rugged thermoplastic case. Rain cover included. Fully assembled.

EarthWay Model M40ECM	O	35 lbs.	69004	$978.50
Motor Speed Control for EarthWay Model M40ECM Spreader		2 lbs.	69112	$201.95

O Ships at Oversize rate. See Shipping Information for details.

EarthWay

EarthWay® EV-N-SPRED® 2050P and 2050TP Estate Broadcast Spreaders

1929

80 lb. Capacity

Rust-proof spreader is designed for rugged use and precise application. EV-N-SPRED 3-hole shut-off system evenly distributes fertilizer or seed over a 180° range with a professional feathered edge. The 1,900 cu. in., high impact, polypropylene hopper holds up to 80 lbs. 10″ pneumatic tires, heavy-duty epoxy powder-coated steel chassis, and high speed gearbox and variable setting control. Ships partially assembled. Select from walk behind or tow models.

Earthway Model 2050P Walk behind model	O	16 lbs.	69172	$111.25
EarthWay Model 2050TP Tow model	O	16 lbs.	69001	$117.50

Fertileeze® Fertilizer Applicator

4659

Precise, efficient, and economical!

Made in USA

Fertileeze provides a quick, easy, cost-effective way to apply controlled-release fertilizer to large quantities of plants. Simply fill the Fertileeze container with fertilizer and attach the wand. To use, hold the wand at a 45 degree angle in one hand while holding the container at shoulder-height with your other hand. With each pump of the container, the wand delivers one tablespoon of fertilizer. To disperse a teaspoon of fertilizer at the time, attach the included teaspoon clip to the wand. The container holds 750 teaspoons (250 tablespoons) of fertilizer. Includes container, wand, and two teaspoon clips. One-year warranty from the manufacturer. Made in USA.

Fertileeze Fertilizer Applicator 3 lbs.	69012	$97.50

Note: Fertileeze is designed for use with coated, controlled-release fertilizers or products with a similar smooth, granular size. Other materials such as fine, powdery herbicides or organic fertilizers may cause permanent damage to the applicator.

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Moultrie® ATV Food Plot Spreader
7535

50 lb. Capacity

This food plot spreader features a 12-volt motor and operates with the push of a button. The heavy-duty tapered plastic hopper ensures that all seed and fertilizer are dispensed. The shut-off gate lets you regulate the amount of material dispersed. A built-in quick release system allows for fast, easy detaching of the spreader bucket for cleaning and storage. The universal mounting bracket is compatible with most ATV models. **Hopper capacity:** 50 lbs.

Moultrie ATV Food Plot Spreader	O	19 lbs.	**69109**	**$103.25**

EarthWay® EV-N-SPRED® 12-Volt Spreader
2111

80 lb. Capacity

This high volume ATV spreader mounts to the front or rear rack of your ATV using a quick-connect horizontal mount system. The spreader's lever and gauge mounts to either side. The 12V motor has a vinyl coating for durability, and the chassis is epoxy-coated. Fits most ATV models. Wiring harness with on/off switch included.

Model M20 – 1,900 cu. in., 80 lb. load bearing capacity	O	14 lbs.	**69102**	**$199.50**

Model 421S Portable Shoulder Spreader
4169

20 lb. Capacity

Evenly spreads up to 20 lbs. of seed fertilizer, pelletized materials, sand, ice melter, etc. The built-in agitator allows material to evenly drop onto the impeller for a uniform spread. Designed to stand upright even when the hopper is full. Features crank handle operation, fingertip controls to adjust direction and volume, and adjustable padded cross shoulder strap for comfort. The gear box is fully enclosed, and the metal gears are lubricated for durability and long life.

Solo Model 421S Portable Shoulder Spreader 7 lbs.	**68996**	**$57.25**	

EarthWay® Model 3200 Shoulder Spreader
2113

25 lb. Capacity

This professional hand crank spreader features a rustproof poly hopper and chassis for durability and an easy operator rate setting control. The fully enclosed high-speed gear box with zinc-plated steel axle provides years of trouble-free use. **Hopper capacity:** 25 lbs. (17.3 liters).

EarthWay Model 3200 Shoulder Spreader 7 lbs.	**69013**	**$93.50**

ProTex™ Shoulder Pads
page 177

EarthWay® Model 3100 Shoulder Spreader
1935

40 lb. Capacity

Criss-cross shoulder straps provide even, steady, comfortable support. Bottom support plate spreads load evenly across your lower abdomen. Commercial spreader has large enclosed gears and a 40-pound capacity. Features rustproof hopper with adjusting plates for spread pattern, three-hole drop pattern, and rain cover. Lays 8′–12′ swath.

EarthWay Model 3100 Shoulder Spreader 9 lbs.	**69009**	**$128.50**
	3+	**$119.25**

EarthWay® Model 2750 Over-the-Shoulder Broadcast Spreader
1933

20 lb. Capacity

Hand-held spreader has tough nylon bearings and an oscillating shuttle to prevent clumping. Features smooth operation and balanced design to ensure a perfect broadcast with less operator fatigue. Plastic gears in plastic base are totally enclosed for long life. Zippered nylon bag. **Hopper capacity:** approximately 20 lbs. Lays 8′–12′ swath.

EarthWay Model 2750 Over-the-Shoulder Broadcast Spreader 3 lbs.	**69019**	**$40.50**
	3+	**$36.95**

O Ships at Oversize rate. See Shipping Information for details.

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ATV Broadcast Spreader

7240

2.2 Cubic Foot Capacity. Spreads up to 45´!

The spreader's variable speed 12 Volt motor allows you to vary the spread width from 5 to 45 feet. Easily cover sidewalks or parking lots with ice melt material or spread fertilizer over odd-shaped sections of lawn. An adjustable slide gate controls the amount of material thrown – open or close with the turn of a handle. The spreader features a 2.2 cubic foot poly hopper, 12 Volt motor with variable speed control, material agitator, and stainless steel radial 6-blade fan. The frame and mounting brackets are constructed from steel. Holds up to 145 lbs. of potash or 99 lbs. of urea. Includes spreader, controller, wiring harness, mounting brackets, and hardware. Made in USA.

ATV Broadcast Spreader	O	51 lb.	**69104**	**$319.00**
2˝ Receiver Adapter Hitch		19 lbs.	**69107**	**$74.50**

Bumper Buddy ATV Spreaders

2098

Adjustable spread from 4 feet up to 20 feet!

A 12-Volt drive motor and two easily interchangeable spreader plates allow you to spread fertilizer, corn, seeds, and more from 4´ up to 20´! The three-sided hat spreader plate is used for broadcasts up to 20´ wide, while the dish-shaped spreader plate is great for close ranges from 4´ to 6´ wide.

The 60-pound capacity hopper features an internal funnel and a manual cut-off valve to reduce waste when not in use. The Deluxe model features a Vortex spin plate that completely cuts off flow when the motor is turned off, and an electric valve to control the opening and closing of the cutoff valve from the seat of your ATV.

Both models mount to most ATV racks with a two-bolt clamp, and can be removed without tools, leaving only the hardware in place for easy re-installation. The 12-volt feeder motor is covered by a manufacturer's lifetime warranty, and an optional 2˝ receiver mount is available for use on trucks.

Caution: Hoppers filled with 50 pounds or more may affect ATV operation and could cause it to overturn. Use extreme care.

Bumper Buddy ATV Spreader	O	23 lbs.	**69122**	**$193.75**
Deluxe Bumper Buddy ATV Spreader	O	33 lbs.	**69183**	**$219.25**
2˝ Receiver Truck Mount		6 lbs.	**69123**	**$35.95**

Lil' Limer

8529

1,500 lb. Capacity

Perfect for use with wildlife food plots, on golf courses, in landscaping applications, or anywhere you need a lightweight machine that won't damage turf! The Lil' Limer efficiently applies bulk lime, bagged lime, mixed fertilizers, seed blends, single varieties of seed, and sand for grass turf. The Lil' Limer can be pulled with an ATV, lawn mower, or small tractor and measures only 6 feet wide. This wheel-driven machine allows you to control how much material to dispense at a time, and the hopper design ensures that material is kept agitated so that it is freely distributed. While moving at a speed of 5 mph with the volume-controlled handle fully open, the Lil' Limer dispenses 2 tons of lime per acre. This low maintenance machine features a fiberglass hopper and powder-coated metal parts. **Capacity:** Approximately 1,500 lbs. **Dimensions:** 6´W x 43.5˝H.

Lil' Limer	F	350 lbs.	**67710**	**$2400.00**

Note: A sifting screen and top dressing attachment are available by special order. Call for details.

Estate Turf Spreader

6624

9 Cubic Foot Capacity

Designed to be pulled behind an ATV or garden tractor. Features a large capacity 9 cubic ft. hopper which accommodates up to 800 lbs. of lime or sand or approximately 400 lbs. of fertilizer. Internal drag chain in hopper helps to break up material and empty hopper. Dispersement can be varied over a wide range using the adjustable discharge opening. Vary the spread pattern using the variable position discharge chute. Hopper constructed of polyethylene. Frame constructed of heavy duty steel. Features large 16˝ x 6.50˝ high flotation turf tires mounted on 8˝ rims to provide necessary driving power. Assembly Required. 48˝W x 84˝L x 38-1/2˝H.

Estate Turf Spreader	F	240 lbs.	**69120**	**$1126.00**

O Ships at Oversize rate. See Shipping Information for details.
F Ships Motor Freight. See Shipping Information for details.

[search engine powered by magazooms.com]

Tufline® ATV Disc
7550

Features eight 16″ notched disc blades with sealed bearings, adjustable gang cutting angle for different tilling requirements, 2″ square tubing mainframe, 1-7/8″ ball coupler hitch, and ratchet lift for transport and depth control. Designed for use with 300 cc and higher ATV models. **Cutting Width:** 52″.

Tufline ATV Disc	F 370 lbs.	**67705**	**$1092.00**

Tufline® ATV Culti-Packer
7549

Forms a firm seedbed to maintain a uniform planting depth and to allow maximum seed-to-soil contact for improved germination. Measuring 52″ wide, this ATV pull-type model features a 1-7/8″ ball coupler and twelve 16″ Culti-Packer wheels.

Tufline ATV Culti-Packer	F 729 lbs.	**67706**	**$1695.00**

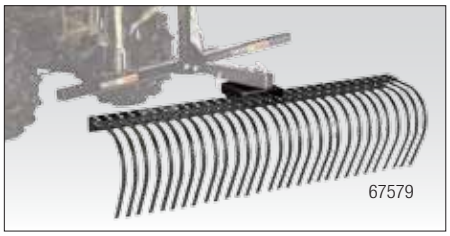
Tufline® 3-Point Tandem Disc Harrow
7555

THE Series

Features 18″ notched blades, 1″ square high strength axles, adjustable gang angles, flangette ball bearings, and a Category 1 hitch. Frame is constructed of 3″ heavy duty square tubing.

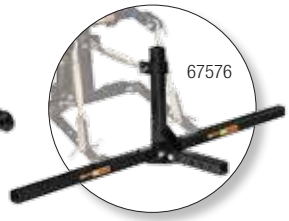
Disc Harrows – Width of Cut: 5′6″; Blades: 16 18″ blades; Blade Spacing: 7-1/2″; For use with 25 hp to 45 hp tractors	F 700 lbs.	**67381**	**$1725.00**
Disc Harrows – Width of Cut: 6′4″; Blades: 16 18″ blades; Blade Spacing: 9″; For use with 30 hp to 45 hp tractors	F 775 lbs.	**67382**	**$1785.00**
Disc Harrows – Width of Cut: 6′8″; Blades: 18 18″ blades; Blade Spacing: 7-1/2″ and 9″ combination; For use with 30 hp to 45 hp tractors	F 775 lbs.	**67383**	**$1855.00**

See our entire line of Tufline® Products at forestry-suppliers.com.



KOLPIN OUTDOOR INNOVATION

Kolpin® DirtWorks™ Heavy Duty ATV 3-Point Hitch System
8362



Customize it depending on your individual needs!

Transform your ATV into a versatile workhorse tractor using this 3-point hitch system! Simply pair the 3-point hitch system with the 60″ accessory tool bar (each sold separately) and then add the tool implement you need (sold separately). The Category "0" 3-point hitch system features a 20″ drawbar width and 5/8″ pins and utilizes a 12-volt electric actuator lift system with 20 amp maximum current draw. The system provides a 15″ vertical lift at the drawbar and features adjustable lift arms and top link. No tools are required for implement installation, and the hitch system fits any 2″ automotive-style receiver hitch.

Heavy Duty ATV 3-Point Hitch System	51 lb.	**67575**	**$632.00**

60″ Accessory Tool Bar

Use in conjunction with the 3-point hitch system for fast changing of individual implements. Compatible with any Category "0" 3-point hitch, the rugged yet lightweight tool bar features a 20″ draw bar width with 5/8″ pins and is black powder-coated for durability.

60″ Accessory Tool Bar	O 48 lbs.	**67576**	**$126.75**

54″ Disc Plow

Features eight 14″ notched disc blades, an adjustable cutting angle, a live axle, and a sealed ball bearing design. Requires accessory tool bar (67576, sold separately).

54″ Disc Plow	101 lb.	**67578**	**$329.00**

60″ Landscape Rake

This rake features 21 individual 1″ x 5/16″ hardened landscape rake tines. Five-position angling allows you to use the rake in a push or pull direction. Requires accessory tool bar (67576, sold separately).

60″ Landscape Rake	115 lbs.	**67579**	**$291.00**

Cultivator Set

Features Danish "S" tines with reversible, replaceable tips. Includes six tines, clamp, 1-3/8″ sweeps, and mounting. Requires accessory tool bar (67576, sold separately).

Cultivator Set	67 lbs.	**67580**	**$315.95**

60″ Rear Blade

Measuring 60″ wide and 13″ high, this blade features five-position left/right angling and can be utilized for push or pull directional use. Requires accessory tool bar (67576, sold separately).

60″ Rear Blade	88 lbs.	**67581**	**$248.00**

F Ships Motor Freight. See Shipping Information for details.
O Oversize. Ships at Oversize rate. See Shipping Info for details.

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Commander Chain Link Harrows
1942

Excellent for aeration, smoothing, overseeding, food plot preparation, pasture renovation, and seed bed preparation.

One side of steel harrow features 3-1/4″ long x 7/16″ diameter, high carbon steel tines that are positioned forward and down. Pull harrow forward for deep penetration of soil and backward for lighter penetration. Flip side of harrow can be used as a drag mat for smoothing soil or broadcast seeding. No maintenance necessary. Pulls behind ATV or tractor. Available in 4′ and 6′ sizes. May be linked front to back or side to side to create larger size harrows. Optional 1/4″ thick, angle iron pull bar sold separately. Pull bar features a 1/4″ zinc-plated chain and a tow ring with a 3″ inside diameter that fits over most trailer balls or may be used with a pin or shackle.

4′ Commander Harrow, 48″ wide x 48″ deep	O	65 lbs.	**68905**	**$239.00**
6′ Commander Harrow, 72″ wide x 48″ deep	X	103 lbs.	**68906**	**$319.00**
40″ Pull Bar		14 lbs.	**68907**	**$66.00**
68-1/2″ Pull Bar	X	22 lbs.	**68908**	**$72.00**

Jet Sled®
6950

Haul your gear wherever you need it!

This rugged, multi-purpose sled is made of tough polyethylene and has molded runners for strength and stability. Pull the sled by hand using the towrope or use the optional universal hitch to pull the sled behind your ATV or snowmobile. The optional elastic cover protects gear from rain and snow. **Sled dimensions:** 54″L x 24″W x 10″D.

Jet Sled	O	12 lbs.	**94111**	**$48.95**
			2+	**$44.25**
Cover for Jet Sled		1 lb.	**94112**	**$24.95**
Universal Hitch		3 lbs.	**94113**	**$30.50**

Convertible Dump Cart
7317

600 lb. Capacity

This versatile dump cart can be towed behind your ATV or lawn tractor and also converts for use as a push cart! The poly bed resists corrosion, dents, and scratches. Molded-in grooves allow you to add your own bed dividers and side extensions. The cart features 16″ stud tread tires with metal hubs. **Capacity:** 600 lbs.

Convertible Dump Cart	F	75 lbs.	**67585**	**$168.50**

Utility ATV Wagons
8281

Tackling the toughest terrain with their independent suspension, high ground clearance, 25″ tires, and a powder-coated steel body, you can count on these ATV Wagons to get the job done! Each trailer has a brake/tail light for extra safety, plus dumping cargo is a cinch with the balanced lift bed and double hinged tailgate. Available in two models: the Model 800UT has a single axle while the larger Model 1600UT has two axles and comes standard with a power RAM lift easily operated with a switch from the seat of your ATV.

800UT ATV Wagon

800 UT Steel ATV Trailer - Single Axle, Red 420 lbs.	F	**54200**	**$999.99**
800 UT Steel ATV Trailer - Single Axle, Green 420 lbs.	F	**54201**	**$999.99**

1600UT ATV Wagon

1,600 UT Steel ATV Trailer - Tandem Axle, Green 522 lbs.	F	**54300**	**$1899.00**
1,600 UT Steel ATV Trailer - Tandem Axle, Red 522 lbs.	F	**54301**	**$1899.99**

Wagon	Tires	Axle	Dimensions: Overall	Dimensions: Bed	Capacities: Volume	Capacities: GVWR	Weight Empty
800UT ATV	25″ x 12″ x 9″	Single 800 lb.	47″ W x 85″ L x 37″ H	45″ W x 49″ L x 12″ H	14.7 Cubic ft.	800 lbs.	323 lbs.
1600UT ATV	25″ x 12″ x 9″	Tandem 800 lb. with tapered roller bearings	47″ W x 109″ L x 37″ H	45″ W x 73″ L x 12″ H	22 Cubic ft.	1600 lbs.	539 lbs.

X Items 60″ or more require an additional handling charge.
O Oversize. Ships at Oversize rate. See Shipping Information for details.
F Ships Motor Freight. See Shipping Information for details.

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Kolpin® Overhead UTV Console with Mirror

7964

Provides additional overhead storage plus gives you the added visibility thanks to the UTV rear mirror included. The rear mirror is easily adjustable and features a convex lens providing high visibility over rough terrain. Universal clamps attach to roll bars even with a roof installed. **Dimensions:** 9.25˝L x 5.5˝W x 6˝H. Made in the USA.

Overhead Console with Mirror	4 lbs.	**69503**	**$99.95**

Kolpin® UTV Bench Center Console

7962

Keep your gear handy and organized in this heavy-duty console! Constructed of black, all-weather rotomolded and UV-stabilized linear low-density polyethylene, it features a padded lid exterior with straps for securing a laptop, 2 cup holders, and a large center storage area. **Overall Dimensions:** 21˝ x 10˝ x 8˝. Made in the USA.

UTV Bench Center Console	8 lbs.	**69501**	**$145.00**

Kolpin® Universal ATV Chainsaw Bracket

7167

Transports a chainsaw securely and safely on any ATV or UTV. Features a cam-over locking mechanism to prevent the swing door from inadvertently opening. Rubber pads cushion the powerhead and protect the bar and chain during transport. Fully adjustable, it mounts up or down and angles up to 45° in either direction. Accommodates any brand chainsaw with up to 24˝ bar.

Universal ATV Chainsaw Bracket	9 lbs.	**69037**	**$70.95**

Kolpin® Lock-it-Rite ATV System

7392

Secure your ATV for safe transport in seconds! Ten times stronger than straps, this tie-down device fits any truck with a 2˝ square receiver and prevents forward, backward, and side movement. In addition, the tie-down protects against the ATV entering the cab of the truck in the event of an accident. Also works with UTV's that fit into the bed of a truck. A built-in 2˝ Class 1 hitch receiver is ideal for pulling a small trailer. Constructed of heavy-duty steel. Rated 2,000 lb. towing weight and 250 lb. tongue weight.

Kolpin Lock-it-Rite ATV System	46 lbs.	**69511**	**$155.95**

Kolpin® ATV Front Trail Box

7166

Low-profile design provides secure storage without interfering with visibility during ATV operation. Constructed of durable UV-stabilized polyethylene. Heavy-duty keyed lockable center latch. **Dimensions:** 30.25˝L x 13.5˝W x 8.8˝H.

Kolpin ATV Front Trail Box	11 lbs.	**69032**	**$124.00**

Kolpin® ATV Cover

7390

Protect your ATV and keep it looking new with this rugged cover! The cover features Rhino Hide™ reinforcement for extra durability and integrated tie-down grommets. Fits all big bore ATV's (even with accessories attached) and some small UTV models. **Dimensions:** 96˝L x 52˝W x 50˝H.

Kolpin ATV Cover	3 lbs.	**69512**	**$49.95**

Note: Cover must be removed for trailering.

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New! Bednet® Original Cargo Net
4909

This heavy-duty restraint system safely secures loads to your truck bed and installs quickly with no guesswork! The one-piece design ensures that the integrated straps will not be lost or accidentally detached, and the coated hooks and rugged nylon buckles won't scratch your vehicle. Bednet's straps are constructed of tough polyester seatbelt webbing. Carrying case included.

Small (Compact), Dimensions: 56˝W x 64.5˝L. Weight: 6 lbs.	5 lbs.	**94756**	**$119.99**
Medium (Full-size short bed), Dimensions: 64.5˝W x 65˝L. Weight: 7 lbs.	6 lbs.	**94757**	**$119.99**
Large (Full-size long bed), Dimensions: 63˝W x 85˝L. Weight: 8 lbs.	7 lbs.	**94758**	**$119.99**

RevArc Loading Ramps
7645

Manufacturer's Warranty Limited Lifetime

Long, wide, and lightweight, these ramps easily load the most popular ATVs and UTVs made. Features include a safer load angle compared to conventional ramps, a wide loading platform with raised side rails for guiding equipment up the ramp, and they fold to a compact size for simple storage. Easy to use, simply position the ramp, lock the single strap, and load with confidence. Hand-crafted TIG welded from 6061-T-6 Aluminum. Welded end caps keep out dirt and debris. Textured rungs help prevent tire slip. Limited lifetime warranty from the manufacturer. Safety instructions included.

ATV Loading Ramps

Loads vehicles with tires/axles spaced from 21˝-55˝ wide.

Length: Available in 72˝ or 90˝. **Open Width:** 55˝. **Ramp Width:** 18˝. **Capacity:** 1300 lbs. **Rung Spacing:** 5.85˝. **Folded Width:** 18˝. **Folded Height:** 5.25˝. **Storage Clearance Height:** 8.5˝.

RevArc 72˝ ATV Ramp, 28 lbs.	X	**93820**	**$199.99**
RevArc 90˝ ATV Ramp, 33 lbs.	F	**93821**	**$239.99**

Heavy-Duty UTV Loading Ramp

Loads vehicles with tires/axles spaced from 24˝-64.5˝ wide.

Length: 90˝. **Open Width:** 64˝. **Ramp Width:** 21˝. **Capacity:** 2100 lbs. **Folded Width:** 21.75˝. **Rung Spacing:** 4.75˝. **Folded Height:** 6.0˝. **Storage Clearance Height:** 9.0˝.

RevArc 90˝ Heavy Duty UTV Ramp, 48 lbs.	F	**93822**	**$299.99**

Keeper® Ratchet Tie-Downs
6276

Easy to use!

Breaking Strength: 1,500 lbs.; Working Load: 500 lbs. – 1˝W x 15´L, Pack of 4, 5 lbs.	**94672**	**$19.75**
Breaking Strength: 5,000 lbs.; Working Load: 1,870 lbs. – 1-1/2˝W x 15´L with Heavy-duty Double J Hooks and oversized ratchet, 3 lbs.	**94651**	**$15.95**
Breaking Strength: 10,000 lbs.; Working Load: 3,330 lbs. – 2˝W x 27´L with Double J Hooks, 5 lbs.	**94654**	**$19.50**

Keeper® Retractable Ratchet Tie-Down
7876

These handy tie-downs store the webbing when not in use by retracting it with the press of a button! Made from Hi-Test™ webbing, each tie-down has a 500 lbs. working load limit and a 1,500 lbs. break strength. Can be permanently mounted to any flat surface. Pack of 2. **Dimensions:** 6´ x 1˝.

Retractable Ratchet Tie-Down, Pack of 2, 3 lbs.	**94655**	**$21.25**

Portable Folding Aluminum ATV Ramps
6286

Works with any truck!

The fast, easy, and affordable way to load and unload ATVs! Fully portable, these ramps work with any truck – just unfold and slide into position. No drilling or mounting brackets required. Rubber-coated anchors help secure ramp and won't damage your paint. Fold away quickly for compact storage. Large welded hinges. Available in two sizes.

6´L x 40˝W, 1,000 lb. Capacity	O	26 lbs.	**93852**	**$146.50**
6´10˝L x 44˝W, 1,200 lb. Capacity	F	34 lbs.	**93800**	**$206.50**

F Ships Motor Freight. O Ships at Oversize rate. See Shipping Information for details.
X Items 60˝ or more require an additional handling charge.

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Polypropylene Sand Bags
1952

White, poly-string tie bags are made of woven polypropylene. String is attached to the bag. Each bag measures 14″W x 26″L. Bundle of 100 bags.

Polypropylene Sand Bags, 100 per bundle 8 lbs.		**58066**	**$58.50**
		10+	**$51.95**

ENCAP® PAM-12™ Plus Erosion Control Granules
8356

Ideal for use in areas with a high potential for loss of soil, in areas damaged by fire, and on slopes or flat areas.

This cost effective soil stabilizing amendment helps protect soil in areas where soil has been sacrificed or exposed. PAM-12 Plus consists of a patented formulation of water-soluble polymers known as linear polyacrylamides (WSPAMs). When wet, these polymers are "watered out" of the granule to help stabilize surrounding soil. PAM-12 Plus helps bind soil particles and reduce rill erosion and silt transport by surface water. The granules also reduce irrigation frequency by increasing soil moisture retention and promoting lateral movement of water through the soil structure. The concentration of gypsum in PAM-12 Plus has been shown to increase the lifespan of the product. PAM-12 Plus can be applied using a fertilizer spreader (drop or broadcast), through aerial application, or through hydraulic application. The granules can also be blended with seeds to function as a seed carrier. One 50 lb. bag covers up to 2,178 square feet.

ENCAP PAM-12 Plus Erosion Control Granules, 50 lb. Bag 51 lb.		**92850**	**$51.95**
		10+	**$46.75**

New! EZ Bagger Sandbag Filler
4885

Allows one person to do the work of two!

The EZ Bagger lets you fill sandbags twice as fast as you could with a shovel! To use, slide the end of the EZ Bagger into the sandbag. Molded cleats keep the sandbag open and in place while you work. With the sandbag on the ground, simply scoop the sand and then tilt the EZ Bagger back, allowing the sand to slide directly into the sandbag. Once the sandbag is full, squeeze the edges of EZ Bagger together to easily release the bag. Made of durable polypropylene. Available in three colors.

Dimensions: 15″H x 15″W. **Concave:** 4″. **Weight:** 13 oz.

EZ Bagger Sandbag Filler, Orange	13 oz.	**58013**	**$12.95**
EZ Bagger Sandbag Filler, Tan	1 lb.	**58016**	**$12.95**
EZ Bagger Sandbag Filler, Green	1 lb.	**58023**	**$12.95**

The StormBag
4706

Use these high technology water absorbing resin "sand" bags as alternatives to traditional sand bags for instant protection as on-site barrier walls! Simply submerge the StormBag in water and watch it expand from 16 oz. to 30 lbs. in 3 to 5 minutes. These rapid water absorption polymer bags eliminate the need to stockpile sand and the heavy equipment and personnel required to fill and deploy traditional sandbags. StormBags are light weight and easy to carry, plus they are made from environmentally friendly materials with a 5-year shelf life.

StormBag Water Absorbing Resin "Sand" Bag	10 lbs.	**58025**	**$4.95**
		50+	**$4.60**

Silt Fence
1953

Allows water to pass through while retaining silt and other matter.

Durable, lightweight, and easy to use. Available as fabric only or pre-assembled with 13 hardwood stakes per roll on 8′ centers (60 Gram Fabric) or with 17 hardwood stakes per roll on 6′ centers (77 Gram Fabric). Fabric is double stapled at the top of each stake to ensure that it remains on the stake. DOT Silt Fence available.

60 Gram Fabric, 3′W x 100′L Pre-assembled Silt Fence w/ 4′ wood stakes.	25 lbs.	**24598**	**$29.50**
		10+	**$26.50**
60 Gram Fabric, 2′W x 100′L Pre-assembled Silt Fence w/ 3′ wood stakes.	16 lbs.	**24501**	**$23.95**
		10+	**$21.55**
77 Gram Fabric, 3′W x 100′L Pre-assembled Silt Fence w/ 4′ wood stakes.	34 lbs.	**24542**	**$32.50**
		10+	**$29.50**
		45+	**$20.50**

Note: DOT Silt Fence available. Call for details.

UltraTech Ultra-Drain Guard®
7493

The Ultra-Drain Guard filters waste from stormwater before it can enter the water system by removing up to .87 gallons of hydrocarbons as well as dirt, sand, and other contaminants. This catch basin insert is ideal for use at industrial facilities, construction sites, parking lots, and drive-up retail facilities. Helps comply with NPDES, 40 CFR 122.26 (1999) and TMDL requirements.

48″ x 36″ UltraTech Ultra-Drain Guard	15 oz.	**95355**	**$46.95**
		10+	**$42.25**

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Aspen Wattle
8313

Ideal for creating a temporary water-permeable structure that provides excellent soil interception, filtration, and containment. This 9´´x 10´ wattle is designed for use on slopes to minimize displacement of sediment, in channels, as small check dams, and to restrict sediment-laden flow from inlets. The wattle is composed of machine-produced high-altitude Rocky Mountain Aspen excelsior matrix held together by a synthetic net. Designed to conform to most soil surfaces, simply secure the flexible wattle by staking.

9´´x 10´ Wattle	F	31 lb.	**43458**	**$37.90**
			10+	**$34.50**
			22+	**$28.95**

Single Net Straw Erosion Control Blanket
8312

Constructed of certified weed-free agricultural straw, this blanket provides excellent rainfall and rain splash protection on shallow slopes and channel protection for low-risk, low-flow channels. Each blanket features a consistent thickness and distribution of fibers which allow for excellent flexibility and moisture absorption. The UV stabilized blanket features photodegradable synthetic top netting and stitching and degrades in approximately 12 months.

8´ x 112.5´	F	50 lbs.	**43446**	**$51.75**
			10+	**$46.75**
			16+	**$40.50**

Jute Mesh Erosion Control Mat
4064

Controls erosion while allowing plant growth.

Excellent for controlling erosion on moderately steep slopes and channels with average water velocities as well as stabilized slopes and shallow channels. The coarse, open mesh fabric keeps soil in place allowing plant material to grow. **Water Assumption Capacity:** 450% of materials weight. **Durability:** 1-2 years. **Roll Size:** 100 square yards (4´W x 225´L).

Jute Mesh Erosion Control Mat	X	85 lbs.	**43439**	**$77.95**
			5+	**$72.20**
			10+	**$68.60**
			18+	**$65.90**

Excelsior Erosion Control Blankets
6740

Aspen wood fiber mat provides an attractive and effective solution for erosion control.

Made of 100% Rocky Mountain Aspen, these erosion control blankets feature excelsior fibers that are strong, durable, absorbent, and greater than 6´´in length. The fibers bond with the soil surface when moistened. Because excelsior fibers interlock and adhere to one another, they protect the soil surface. Color and thickness are consistent throughout the blanket. Choose from blankets with regular netting (either green dyed or natural) or Rapid-Go netting. The UV-stabilized synthetic regular netting degrades in approximately 12 months, and the rapid photodegradable Rapid-Go synthetic netting degrades in 45 to 90 days.

Green Dyed Blankets with Regular Netting, 8´ x 90´	F	65 lbs.	**43437**	**$64.50**
			10+	**$60.50**
			16+	**$51.50**
Green Dyed Blankets with Regular Netting, 4´ x 180´		55 lbs.	**43438**	**$64.50**
			10+	**$60.50**
			20+	**$51.50**

Natural Blankets with Regular Netting, 8´ x 90´	F	55 lbs.	**43447**	**$59.95**
			10+	**$56.95**
			16+	**$51.75**
Natural Blankets with Regular Netting, 4´ x 180´		50 lbs.	**43448**	**$58.95**
			10+	**$54.95**
			20+	**$49.95**

Natural Blankets with Rapid-Go™ Netting, 8´ x 90´	F	65 lbs.	**43460**	**$60.95**
			10+	**$56.95**
			16+	**$51.75**
Natural Blankets with Rapid-Go™ Netting, 4´ x 180´		50 lbs.	**43459**	**$58.95**
			10+	**$54.95**
			20+	**$49.95**

F Ships Motor Freight. X Oversize. Ships UPS 70 lb. rate.

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New! EcoStaker
4973

For use with EcoDuty™ stakes.

Featuring a lightweight, labor-saving, jam-free design, the EcoStaker allows for fast installation of EcoDuty stakes (sold separately). Simply insert a stake into the driver and then plunge the stake into the ground. Forward pressure on the EcoStaker securely installs the stake.

EcoStaker	15 oz.	**25632**	**$49.75**

New! EcoDuty™ Premium Biodegradable Stake
4973

Made from 100% plant-based PHA resin, this ultra-strong stake is fully biodegradable and fully compostable-certified. Alternating ribs and double hooks provide maximum holding power on landscape fabrics, erosion control blankets, geotextiles, netting, and turf. Biodegrades in 12 to 24 months depending on the conditions of the environment.

4˝L EcoDuty Biodegradable Stake, Case of 1,000	18 lbs.	**25628**	**$174.95**
		3+	**$161.50**
6˝L EcoDuty Biodegradable Stake, Case of 500	14 lbs.	**25629**	**$99.95**
		3+	**$91.50**

New! EcoDuty™ Dissolvable Stake
4973

Made of polypropylene-based resin from 100% recycled materials. Following the initial 12 to 36 month breakdown phase, the stake degrades in the soil and leaves behind only carbon dioxide, water, and humus as byproducts. The stake's alternating ribs and double hooks securely hold landscape fabrics, erosion control blankets, geotextiles, netting, and turf.

4˝L EcoDuty Dissolvable Stake, Case of 1,000	14 lbs.	**25630**	**$109.95**
		3+	**$99.95**
6˝L EcoDuty Dissolvable Stake, Case of 500	10 lbs.	**25631**	**$62.25**
		3+	**$57.50**

Work Gloves
pages 618 and 619

New! Turf Tacker Stapler System
4974

The Turf Tacker provides an easy solution for securing landscape fabrics, erosion control netting, sod, and golf course divots. To use, load a cartridge of Turf Tac Staples (sold separately) into the Turf Tacker. Press down on the handle of the staple gun to install the 2˝ long, U-shaped staples. The degradable staples are made of a polypropylene-based resin from 100% recycled materials. After 6 to 12 months, the staples break down into carbon dioxide, water, and humus. The rugged Turf Tacker is made of corrosion-free, heavy-gauge stainless steel.

Dimensions: 32˝H x 11.5˝L x 1.375˝W. **Weight:** 7 lbs.

Turf Tacker Stapler System	8 lbs.	**25634**	**$465.00**
Turf Tac Staples, Case of 1,000	2 lbs.	**25633**	**$87.50**
		3+	**$80.75**

Note: Turf Tac Staples only work with the Turf Tacker Stapler.

DeWitt Weed Barrier® Pro Landscape Fabric
2605

Superior light-blocking capabilities to stop weed growth while still allowing air, water, and nutrients to reach the roots. Environmentally safe and easy to use, non-woven spunbound fabric which consists of melt-blown material sandwiched between two layers of spun material for 3-ply protection. Non-woven design makes the fabric easy to cut and prevents unraveling.

3´ x 300´, Black	19 lbs.	**93070**	**$76.50**
		3+	**$73.50**
		6+	**$70.25**
4´ x 300´, Black	22 lbs.	**93071**	**$101.50**
		3+	**$96.50**
		6+	**$91.75**
3´ x 300´, Brown	22 lbs.	**93072**	**$94.95**
		3+	**$81.75**
		6+	**$76.95**

DeWitt Filter Fabric
8060

This non-woven, needle-punched fabric is ideal for use in soil stabilization and separation. The fabric works as a stabilizing force to prevent soil shifts or movements in excavated areas such as roads, sidewalks, and embankments. The fabric also helps prevent soil damage when placed around drainage pipes, retaining walls, and other buried or exposed fixtures.

3.5 oz. Filter Fabric, 4´ x 360´ Roll	O	43 lbs.	**92811**	**$162.95**
			3+	**$151.25**
3.5 oz. Filter Fabric, 6´ x 360´ Roll	O	60 lbs.	**92812**	**$244.95**
			3+	**$220.75**

Dalen Pro Weed-X® Commercial Landscaping Fabric
1955

Guaranteed to stop weeds!

Commercial grade landscaping fabric provides superior weed control, maximum water retention, and is easy to install. Ideal for permanent landscaping applications, allowing water, air and nutrients to reach plant roots. Requires less organic mulch coverage than other fabrics. 25-Year manufacturer's guarantee. **Dimensions:** 4.5' x 250'.

4-1/2´ x 250´ Roll	18 lbs.	**93097**	**$139.50**
		3+	**$132.50**

O Oversize. Ships at Oversize rate. See Shipping Information for details.

[search engine powered by magazooms.com]

StapleSetter™ Sod Staple Driver
7987

This staple driver features a recessed magnetic grip that securely holds the staple in place as it is being driven into the ground. Quickly and easily install erosion control blankets, landscape fabric, and geotextile fabric. Perfect for use in wet areas, rough terrain, steep slopes, ditch banks, and tight spots. Use with 1″ wide U-shaped steel staples of any length. **Length:** 42″.

StapleSetter Sod Staple Driver	2 lbs.	**25016**	**$59.95**

Bucket Boss® Handyman's Holster with Belt
7058

This rugged holster features 5 pockets, a hammer loop, and a quick-release belt with a tape clip. Constructed of polyester ripstop/600d polyester. Fits waist sizes up to 52″. **Dimensions:** 10″W x 4″D x 10.5″H.

Bucket Boss Handyman's Holster with Belt	11 oz.	**22736**	**$13.25**

Estwing® Rubber Mallet
2608

Great for driving ground staples when installing landscaping materials and for many other applications. Black rubber mallet is bounce-resistant and has a hickory handle.

Face Diameter: 2.5″. **Head Length:** 4.5″. **Overall Length:** 14.5″. **Weight:** 18 oz.

Estwing 18 oz. Rubber Mallet	2 lbs.	**25025**	**$15.25**

Magnetic Round Pin Driver
8571

Affordable, maintenance-free solution!

Quickly and easily secure landscape fabric or sod! The driver features a magnet which holds the round top pin steady as you drive the pin into the ground. Friction keeps the pin in place as you lift the driver away. 38″L Wooden handle. Works with round top pins (Stock Number 25017).

Magnetic Round Pin Driver	2 lbs.	**25005**	**$28.50**
Round Top Pins, Carton of 1,000 pins	29 lbs.	**25017**	**$43.95**
		4+	**$39.50**

JMD Round Top Driver™
8565

Saves up to 40% in labor time and costs!

1 Manufacturer's Warranty 1 Year

Provides one of the fastest, most efficient methods of securing erosion control matting, geotextile fabric, mulch netting, and sod. To use, just drop a Round Top Pin or JMD Round Top Bio-Pin™ (each sold separately) into the feeder tube. Once the plunger is deployed, the pin is driven firmly into the ground. The Round Top Driver allows you to secure up to 8 feet of fabric while standing in one central location, reduces worker fatigue, and helps increase productivity. Features only one moving part with no spring recoil devices to replace or jam. Constructed of high-impact, lightweight molded plastic. One year manufacturer's warranty. **Height:** 52″ to top of handle. **Weight:** 6.2 lbs.

Round Top Driver	8 lbs.	**25006**	**$222.50**

Steel Ground Staples
6741

Use to anchor your landscape fabrics. 11 gauge. Each measures 6″L x 1″W.

Steel Ground Staples, Box of 75	3 lbs.	**25066**	**$8.60**
Steel Ground Staples, Box of 1,000	36 lbs.	**25019**	**$48.25**
		5+	**$44.25**

JMD Round Top Bio-Pin™
8567

100% Biodegradable pin lasts up to one year. Holds five times the surface area of a traditional U-shaped staple. 5″ long with 1-3/8″ diameter head. Carton of 500 pins.

JMD Round Top Bio-Pins, Carton of 500 pins	9 lbs.	**25072**	**$72.25**
		6+	**$67.25**

Round Top Pins
8566

Manufactured from 11 gauge high-strength steel wire. Holds five times the surface area of a traditional U-shaped staple. 6″ long with 1-3/8″ diameter head. Carton of 1,000 pins.

Round Top Pins, Carton of 1,000 pins	29 lbs.	**25017**	**$43.95**
		4+	**$39.50**

Bio-STAKE™
6973

100% Biodegradable!

"T"-shaped pin securely anchors erosion control blankets, landscape fabrics, bird netting, or sod. Made of corn-based polymer. Breaks down in about a year and biodegrades fully in about 3 years. 6″L.

Bio-Stake, Carton of 576	9 lbs.	**25067**	**$66.75**
		3+	**$63.50**

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Post Driver with Angled Handles
1994

Angled handles make driving fence posts fast and easy. Steel pipe is 2″ inside diameter by 30″ long.

Dixie Post Driver with Angled Handles 14 lbs.	**67251**	**$29.50**

Crescent®

Crescent® Fencing Tool
1992

Heavy-duty with corrugated hammer head, two wire cutters, two staple grips in nose, and wire grip between handles for stretching wire. Heavy prong on head easily removes rusty staples. 10″ Long.

Fencing Tool 2 lbs.	**67249**	**$28.50**
	6+	**$26.25**
Fencing Tool Leather Holster 3 oz.	**67248**	**$11.25**

Fence Stretcher/Splicer
1993

Ideal for splicing, stretching, and raising wire. Enables you to tighten or release tension on wire one step at a time. Durable, all-steel construction. 32″ Long.

Fence Stretcher/Splicer 8 lbs.	**67136**	**$37.75**

EZ Crank Post Puller
2795

This revolutionary post puller takes the stress and strain out of pulling fence posts, signs, stakes, poles, mailboxes, and other objects mounted in concrete or asphalt. Simply turn the crank to unleash 3,500 pounds of pulling capacity. The concrete is easily removed from the ground with little or no damage to the surrounding area. Jobs can be completed faster and with less manpower. The heavy-duty frame is constructed of powder-coated steel to provide years of service.

EZ Crank Post Puller	47 lbs.	**67250**	**$499.95**

Post Popper Fence Post Remover
1988

Allows one person to quickly and easily remove posts.

Features a balanced pivot system which substantially increases the amount of leverage you apply while decreasing the amount of effort you exert. Unique pivot system lifts posts straight up without bending them so you can reuse extracted posts at another location. Use the Post Popper, as is, to retrieve T-posts or attach the optional chain and slip hook accessory to pull up construction stakes, galvanized fence posts, wood posts, u-channel posts, and sign posts – whether they're bent or broken. Constructed of heavy-duty 1-1/2″ square steel tubing.

Post Popper	20 lbs.	**67241**	**$85.75**
Optional Chain & Slip Hook	4 lbs.	**67242**	**$18.75**

Jackson Professional Tools Dig EZ™ Post Hole Digger
8342

Get the job done faster and easier!

Unique design keeps your hands from touching. Textured fiberglass handles provide a firm grip and are notched at the ends to aid during dirt transport.

Jackson Professional Tools Dig EZ Post Hole Digger 14 lbs.	**67238**	**$83.95**

RAZOR-BACK®

Razor-Back® Post Hole Digger
1991

Razor-Back®
Model 78-004

Use for digging post holes in heavily compacted soils. Features a two-piece head design and 48″ round hardwood handles.

Razor-Back Post Hole Digger 8 lbs.	**67237**	**$41.75**

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General® Model 330 Two-Man Power Auger

3025

Rugged digger for hard digging jobs.

Use for fencing, sign erection, test boring, landscaping, and general digging. The Model 330 has a Honda 5 hp, four-cycle engine and features a recoil starter and twist grip throttle. Can drill up to 6′ by hand. Engine with handles. Order auger separately.

Transmission: Enclosed spur gear reduction.
Maximum drilling torque: 190 ft./lbs.

General Model 330 Two-Man Hole Digger with Honda Engine 92 lbs. **67333** **$1795.00**

Augers for General® Model 330 Two-Man Hole Digger

Standard Full Flighted – Threaded the entire length of the auger shaft. Larger augers available. Call for details.

Mfr. Part No.	Use	Diameter	Length	Weight	SN	$
4400-18 PT*	Planting	18″	30″	52 lbs.	**67269**	**$515.00**
4400-16E3	Earth	16″	3′	58 lbs.	**67338**	**$575.00**
4400-12E3	Earth	12″	3′	46 lbs.	**67339**	**$280.00**
4400-10E3	Earth	10″	3′	36 lbs.	**67340**	**$265.00**
4400-8E3	Earth	8″	3′	30 lbs.	**67256**	**$255.00**
4400-6E3	Earth	6″	3′	25 lbs.	**67257**	**$240.00**

Full Flighted Extensions for General® Model 330 Two-Man Hole Digger

Threads run entire length of the shaft.

Mfr. Part No.	Length	Use With	Weight	SN	$
5500-12X3	3′	12″ Auger	41 lb.	**67261**	**$240.00**
5500-10X3	3′	10″ Auger	33 lbs.	**67262**	**$230.00**
5500-8X3	3′	8″ Auger	28 lbs.	**67264**	**$205.00**
5500-6X3	3′	6″ Auger	25 lbs.	**67266**	**$195.00**
5500-15X†	15″		7 lbs.	**67268**	**$95.00**

*Short flighted Planting Auger - 9″ flighting.
†One inch diameter, 1-5/8″ dia. at connection. Not flighted

General® Model 240 Hole Digger

1601

This is the first one-man, hand-held hole digger to feature an all-position, 4-stroke engine. The Honda engine meets current EPA emission standards. Designed to easily dig up to an 8″ (203 mm) diameter hole in a variety of soil classifications. Built with oversized ball bearings, heat-treated shafts, and precise, machine-cut gears to ensure a long service life. The unique Comfort-Zone™ operator handle design maximizes strength while reducing the effects of kickback and body fatigue. Powerhead only – order augers separately.

Engine: 1.3 HP (1000 W) Honda GX35, all-position 4-stroke engine; air cooled, recoil hand starter, spark arresting muffler. **Fuel:** regular grade unleaded gasoline. **Transmission:** enclosed, spur gear reduction type, grease lubricated. **Centrifugal clutch:** all-metal, automatic, slips upon overload or contact with buried object. **Maximum drilling torque:** 51 ft. lbs. **Auger rotation speed:** 166 rpm, no load, maximum governed engine speed. **Throttle control:** Magura® twist grip type. **Operator handle:** ergonomically offset design to enhance control and minimize fatigue.

General Model 240 Hole Digger 27 lbs. **67148** **$849.00**

Augers for General Model 240 Hole Digger

Standard Full Flighted – threaded the entire length of the auger shaft. Larger augers available. Call for details.

Mfr. Part No.	Diameter	Length	Weight	SN	$
2135-2E	2″	2-1/2′L	6 lbs.	**67153**	**$116.00**
2135-3E	3″	2-1/2′L	8 lbs.	**67344**	**$116.00**
2135-4E	4″	2-1/2′L	11 lbs.	**67152**	**$120.00**
2135-6E	6″	2-1/2′L	15 lbs.	**67151**	**$127.00**
2135-8E	8″	2-1/2′L	20 lbs.	**67147**	**$140.00**
2135-15X	1″	15″ Extension (not flighted)	5 lbs.	**67155**	**$85.00**

TRUE TEMPER®

True Temper® 71″ Post Hole Digging/Tamper Bar

4435

Use for digging and prying of dirt and large rocks as well as for tamping soil. The tamper head easily levels ground around fence posts and deck supports. The 16 lb. bar is constructed of heat-treated carbon steel. Features 1″ bar stock and measures 71″L. Manufacturer's limited lifetime warranty.

Post Hole Digging/Tamper Bar 16 lbs. X **33912** **$33.95**

True Temper® Pinch Point Bar

4436

26 lb. Straight pattern bar is constructed of forged heat-treated steel and features a 2-1/4″ x 1-1/4″ blade. For levering and demolition jobs. 66″ Total length.

Pinch Point Bar 25 lbs. X **33913** **$57.25**

X Items 60″ or more require an additional handling charge.

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TRUE TEMPER

Bulb Hound® Garden Planter™ by True Temper®

7445

Great for bulbs and bedding plants. Unique spades open with a squeeze of the handle for easy soil release. Digs holes up to 5″D for easily planting bulbs. Durable steel construction and rustproof finish for long-lasting wear. Long-handled, patented design allows use from standing position. Limited lifetime warranty from the manufacturer. 39″L.

Garden Planter			
4 lbs.		69153	$34.25

U-Dig-It Shovel™

6447

Durable, compact, lightweight and rustproof!

Handle easily folds and unfolds with one hand. Includes leather attach-to-belt carrying case. 2-1/4″W x 8-3/4″H (open), 4-1/2″ closed.

U-Dig-It Shovel			
7 oz.		33459	$19.25
	3+		$18.25

ECHO

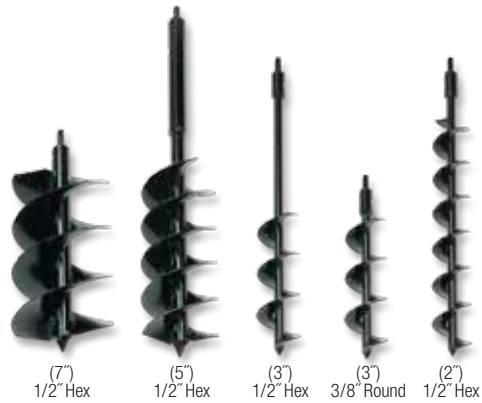
Echo® Gas Engine Drill

1976

The convenience of a cordless drill with the features of a heavy-duty drill!

This lightweight, gas-powered drill features a 21.2 cc, 2-cycle engine with a fuel capacity of 14.2 fl. oz., 0 - 450 forward/reverse RPM, and a gear reduction ratio of 17.1:1. Chuck holds up to 1/2″ drill shank. Features heavy-duty gear reduction which converts engine power into drilling torque; Pro-Fire® Electronic Ignition; all-position diaphragm carburetor for operation at any angle; throttle lock-out to prevent accidental auger rotation; reversing feature for easy removal of auger from bored hole; spark arresting muffler; and left to right adjustable front handle. Drill may be used with Power Planter® Earth Augers (sold separately).

Echo Gas Engine Drill	14 lbs.	69170	$481.00



Power Planter® Earth Augers

6853

Ideal for drilling holes in a variety of soils and much more!

Use with a gas, electric, or battery operated drill. An excellent tool for mixing seed treatment in planter boxes. The dirt removed is left around the edge of the hole in a loose, easy-to-pack condition. All augers have a 1/2″ drive except for #69179 which has a 3/8″ non-slip hex drive. Each auger's flighting length is 12″ except 69176 which is 19″.

Drive	Dia.	Flighting Length	Overall Length	Weight	SN	$
1/2″	2″	19″	24″	3 lbs.	69176	$60.75
3/8″	3″	12″	12″	2 lbs.	69179	$25.95
1/2″	3″	12″	24″	3 lbs.	69177	$40.50
1/2″	5″	12″	28″	6 lbs.	69178	$79.25
1/2″	7″	12″	16″	7 lbs.	69171	$99.25

Heavyweight Mini Pick

2933

Made in USA

Ideal for planting or weeding even in compacted soil, this mini pick features a heat-treated alloy steel blade that withstands rough use. Made in USA.

Pointed End: 6″L. **Flat End:** 6-1/2″L x 2-3/8″W. **Overall Length:** 14-3/4″.

Heavyweight Mini Pick	2 lbs.	33363	$39.95

Hori-Hori Soil Knife

8528

This multipurpose knife is ideal for digging, weeding, transplanting, dividing perennials, etc.! The fully polished, 3mm thick, stainless steel blade is beveled for shoveling and has a serrated side for sawing. Plus, it has engraved depth measurements from 25 to 150mm. Blade measures 6-3/4″L and wood handle is 5-1/8″L. Comes complete with a vinyl sheath. Optional heavy-duty leather sheath (33490) with belt loop and carabiner ring is sold separately.

Hori-Hori Soil Knife			
9 oz.		33489	$24.75
	4+		$22.75
Heavy-Duty Leather Sheath			
3 oz.		33490	$11.75

KURO Hori-Hori Soil Knife

8528

Perfect for weeding, planting, dividing perennials, and even cutting sod, this soil knife features a comfortable rubber grip on the 5-3/4″L handle. The 7″L stainless steel blade is beveled for shoveling and is serrated on one side for sawing. Inch markings on the blade allow for convenient depth measurement. Vinyl sheath included. Optional heavy-duty leather sheath with belt loop and carabiner ring is sold separately.

KURO Hori-Hori Soil Knife			
12 oz.		33487	$29.50
	4+		$27.95
Heavy-Duty Leather Sheath			
3 oz.		33490	$11.75

Lesche™ Digging Tool

6563

Made in USA

Ideal for metal detecting, camping, landscaping and nursery use.

This handy tool can cut through roots and dig through any type of ground. Belt holder included. 7″ x 1-3/4″ blade.

Lesche Digging Tool			
1 lb.		33488	$41.50

Non-Slip Planting Gloves pages 158 & 617

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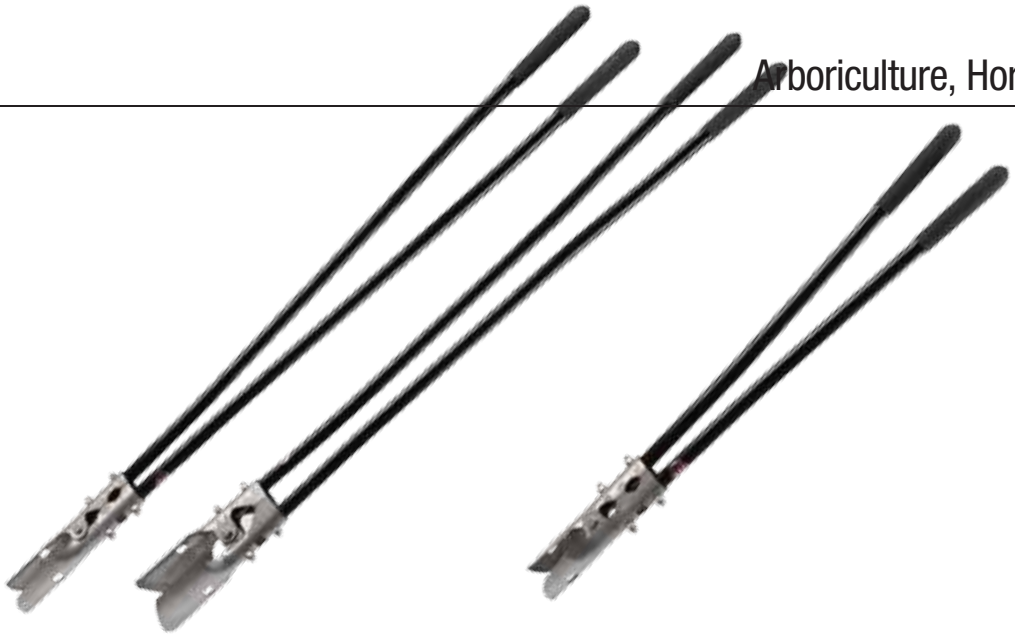

New! Hart Plant Hole Digger
4962

Designed to efficiently dig holes for bedding and vegetable plants, this rugged digger features a stainless steel digging end with profile-ground sharp edges that cut through clay, roots, and rocky ground. Constructed of steel tubing that is E-coat painted, the 47″L handles feature high-grade grips and are flared at the top to prevent mashed fingers.

Plant Hole Digger, 2″ Diameter	7 lbs.	**67289**	**$69.95**
Plant Hole Digger, 3.5″ Diameter	8 lbs.	**67281**	**$69.95**

New! Hart Short-Handled Plant Hole Digger
4962

Shorter handles make this digger ideal for use when digging holes for bedding plants or vegetable plants in raised beds, containers, and difficult-to-reach areas! The 2″ diameter digging end is made of stainless steel and features profile-ground sharp edges that cut through clay, roots, and rocky ground. The 31.5″L h andles are flared at the top to prevent mashed fingers, feature high-grade grips, and are constructed of steel tubing that is E-coat painted.

Short-Handled Plant Hole Digger	5 lbs.	**67277**	**$54.95**

OK-1® Heavy-Duty Knee Pads
3577

These lightweight, flexible knee pads are easy to adjust for a custom fit and feature a large plastic outside cap for ultimate protection. The foam padding provides a comfortable fit, and the fabric body offers excellent durability. One size fits all.

OK-1 Heavy-Duty Knee Pads, One Pair 11 oz.		**23253**	**$15.75**
	6+		**$14.50**

Mag-Lok® Tools
4773

Manufacturer's Warranty Lifetime

These rugged implements quickly and easily attach to a Mag-Lok handle (sold separately) using the Mag-LokGrip Connector system. The interchangeable tools allow for the ultimate in versatility and convenience! Backed by a lifetime warranty from the manufacturer.

#2 Round Point Shovel Head, Features 16 gauge tempered steel construction, Mag-LokGrip high-impact tool head connector, powder coating, reinforced welded shovel shaft, and open back. **Blade Length:** 11″. **Blade Width:** 8-1/2″. **Overall Length (from connector to end of blade):** 22-1/4″. **Weight:** 3.4 lbs.	2 lbs.	**33271**	**$25.95**
Flat Spade Head, Features 14 gauge tempered steel construction, Mag-LokGrip high-impact tool head connector, powder coating, closed back, and welded shovel shaft. **Blade Length:** 12″. **Blade Width:** 7-1/2″. **Overall Length (from connector to end of blade):** 23″. **Weight:** 3.6 lbs.	4 lbs.	**33273**	**$27.25**
Square Shovel Head, Features 14 gauge tempered steel construction, Mag-LokGrip high-impact tool head connector, powder coating, reinforced welded shovel shaft, and closed back. **Blade Length:** 12″. **Blade Width:** 9-1/2″. **Overall Length (from connector to end of blade):** 24″. **Weight:** 4 lbs.	5 lbs.	**33274**	**$27.25**
16-Tine Forged Bow Rake Head, Features 16 tines, forged tempered steel construction, Mag-LokGrip low-impact tool head connector, and powder coating. **Width:** 16-1/2″. **Length:** 9″. **Length of Tines:** 2-1/2″. **Weight:** 2.25 lbs.	2 lbs.	**33272**	**$28.25**

Mag-Lok® Heavy-Duty Fiberglass Handles
4773

Manufacturer's Warranty Lifetime

Each heavy-duty handle features a Mag-LokGrip Connector at the end for fast, easy attachment of your choice of Mag-Lok tools (each sold separately). You can exchange one tool for another in just seconds! Designed to withstand the most demanding work environments, the 4mm (wall thickness) fiberglass handles are backed by a lifetime warranty from the manufacturer.

28″ D-Grip Handle, 28″L x 1-1/4″ diameter handle features a D-grip.	2 lbs.	**33267**	**$27.25**
40″ D-Grip Handle, 40″L x 1-1/4″ diameter handle features a D-grip.	2 lbs.	**33268**	**$29.25**
48″ Straight Handle, 48″L x 1-1/4″ diameter handle features a PVC end cap.	4 lbs.	**33269**	**$27.25**

Mag-Lok® Tool Bag
4773

Designed for carrying your Mag-Lok tools, this rugged, zippered bag is constructed of heavy-duty nylon and features a shoulder strap. **Dimensions:** 9″W x 31″L. **Weight:** 3.2 lbs. Handle sold separately.

Mag-Lok Tool Bag	4 lbs.	**33270**	**$32.50**

Rubbermaid® Tool Tower™
8650

Get organized and keep your tools within easy reach!

This sturdy storage rack holds up to 36 tools. Includes 15 slots for long-handled tools, 18 slots for small tools, a recessed area for storing a weed trimmer, and an extension cord holder. Will not rust, rot, or peel. Assembles without tools. Wall mount bracket included.

Dimensions: 18″D x 36″W x 37″H.

Rubbermaid Tool Tower 11 lbs.		**94717**	**$55.75**
	4+		**$52.75**

DESKTOP. TABLET. MOBILE.
THE NEW
FORESTRY-SUPPLIERS.COM

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New! Wolverine All-Steel Long-Handled Spade

4886

Made in USA

Ideal for tree planting, the 15˝L diamond-point, mill-sharpened steel blade features a razor-sharp cutting surface. Heat-treated blade is made from high carbon USA steel. Features a foot pad, forward step, and closed back. 54˝L Powder-coated, aircraft-quality steel tubing handle.

Model LH15DP	X	8 lbs.	**69145**	**$69.95**
			6+	**$68.50**

Forestry Suppliers Long Handle Planting Shovel

1603

Use to plant pine or hardwoods. Blade is 12˝L x 6-1/2˝W with reinforcement plate welded on back. Welded-on, rubber-padded footplates. 47˝ Handle.

Planting Shovel with Hickory Handle	X	5 lbs.	**69105**	**$57.95**
			6+	**$52.95**
Planting Shovel with Fiberglass Handle, Features a cushion end grip.		4 lbs.	**69115**	**$53.75**
			6+	**$46.75**

Spear Head Spade™

7761

Made in USA

11˝H x 9˝W High carbon manganese steel blade with forward turned step. Designed to reduce digging effort by up to 80%, the blade's edge is sharpened from tip to tail. Hardwood-reinforced fiberglass handle with cushion grip.

Long Handle Spear Head Spade, 59˝ overall length with straight handle.	4 lbs.	**33887**	**$46.95**
Spear Head Spade, 41˝ overall length with D-grip handle.	4 lbs.	**33886**	**$45.50**

AMS

AMS Sharpshooter Shovel

1605

Made in USA

Heavy-duty steel sharpshooter opens a deep, narrow hole, even in hard, rocky soil. The long rubber-coated handle reduces recoil from striking rocks. Blade is 18˝L x 5-1/4˝W at top, tapers to 4-1/4˝ at bottom. **Handle:** 29˝ long.

AMS Sharpshooter Shovel 10 lbs.	**77621**	**$166.25**

X Items 60˝ or more require an additional handling charge.

RAZOR-BACK

Razor-Back® Heavy-Duty Sharpshooter Tree Planting Spade

1606

Razor-Back® Model 47-110

For digging deep planting holes. Excellent for seedlings with long root systems. Blade is 4-3/4˝W x 16˝L. Closed back, turned step, 9˝ long socket. 28˝ Northern white ash handle with steel and wood D-grip.

Razor-Back Model 47-110 Heavy-Duty Sharpshooter Spade 5 lbs.	**33892**	**$70.75**
	6+	**$67.25**

Forestry Suppliers Tile Spade Planting Shovel

1604

Reinforcement plate welded on back. Welded-on, rubber-padded footplates.

Tile Spade Planting Shovel, 14-1/2˝L x 5-1/4˝W Blade, 42˝ overall, 28˝ hickory handle with wooden D-grip 5 lbs.	**69090**	**$64.75**
	6+	**$61.75**

14˝ Steel Tiling Spade

7416

5-1/2˝W x 14˝L Blade with forward turned step. 1˝ Schedule 40 steel pipe with a 6˝ steel T grip. **Overall length:** approximately 44-1/2˝.

Steel Tiling Spade 6 lbs.	**69147**	**$36.50**

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CORONA SEASON AFTER SEASON

Designed for the professional who needs MAXIMUM digging and prying power!

Manufacturer's Warranty Limited Lifetime

Corona® MAX #2 Round Point Shovel

4674

Designed for maximum power when spading, planting, prying, cutting roots, or digging. Heat-treated, heavy-duty, 12 gauge blade is pre-sharpened. Rubber foot pad fits on either side of the blade and helps reduce fatigue and shoe damage. Closed back design provides extra strength and prevents dirt buildup. Solid steel end cap under the red grip allows for tamping. 48″ Aerospace-grade steel handle features powder-coated paint finish. Limited lifetime warranty from the manufacturer.

Corona MAX #2 Round Point Shovel 8 lbs.	X	33840	$98.95
Replacement Foot Pad 5 oz.		69054	$10.65

CORONA SEASON AFTER SEASON

Manufacturer's Warranty Limited Lifetime

Corona® MAX Diamond Blade Steel Spades

4675

Built to offer maximum digging and prying power, each spade features a pre-sharpened, diamond point blade. Heat-treated, heavy-duty, 12 gauge blade features a closed back to prevent dirt buildup and provide strength. A rubber foot pad fits either side of the blade and reduces user fatigue and shoe damage. Powder-coated paint finish for a smooth, comfortable feel. Rugged, aerospace-grade steel handle. Limited lifetime warranty from the manufacturer.

Corona MAX Steel Spade with 12″ Diamond Blade, 26″ D-Grip Handle 6 lbs.		69017	$72.95
Corona MAX Steel Spade with 15″ Diamond Blade, 54″ Straight Handle, Solid steel end cap under the red grip allows for tamping. 9 lbs.	X	69021	$98.95
Replacement Foot Pad 5 oz.		69054	$10.65

CORONA SEASON AFTER SEASON

Manufacturer's Warranty Limited Lifetime

Corona® MAX Straight Blade Steel Spades

4676

A heavy-duty, pre-sharpened, straight blade provides superior digging and prying power. Heat-treated, 12 gauge blade features a closed back design that prevents dirt buildup and ensures strength. Attach the rubber foot pad to either side of the blade to reduce user fatigue and shoe damage. Powder-coated paint offers a smooth, comfortable feel. Durable, aerospace-grade steel handle. Limited lifetime warranty from the manufacturer.

Corona MAX Steel Spade with 12″ Straight Blade, 26″ D-Grip Handle 6 lbs.		69018	$72.95
Corona MAX Steel Spade with 15″ Straight Blade, 54″ Straight Handle, Solid steel end cap under the red grip allows for tamping. 9 lbs.	X	69003	$98.95
Replacement Foot Pad 5 oz.		69054	$10.65

Made in USA

GroundShark Shovel

2932

The serrated edge of this shovel digs through the toughest soil and cuts roots. 12″ x 3″ Blade is heat-treated for superior strength. T-handle with step. Constructed of aircraft-quality tubing. Made in USA.

36″ GroundShark Shovel 3 lbs.		69063	$64.95
40″ GroundShark Shovel 4 lbs.		69074	$66.95

Extech® Digital Soil Moisture Meter, 8″ Probe page 280

Tree Planting Bags page 160

King of Spades

6637, 6638, 6829

Made in USA

13″L blade. 7-1/2″W at top; tapers to 6-1/2″W at bottom. Main shank is zinc plated aircraft tubing. Tubular steel D-handle is 4″ wide inside with a 1-1/4″ diameter handle. Rubber foot pad can be bolted to either side of blade step. One pad included.

Straight Blade Spade, 27″ L handle	6 lbs.	69050	$91.95
		3+	$87.75
Diamond Point Spade, 27″ L handle	6 lbs.	69051	$91.95
		3+	$87.75
Replacement Foot Pad	5 oz.	69054	$10.65

Balling Spade

11-1/2″L x 5-1/2″W Blade is serrated on one side and sharp on the other. D-grip handle, heat-treated tempered steel blade, and forward-turned step. Welded alloy steel tubing has no rivets, sharp edges, or wood to damage hands.

Balling Spade, 27-1/2″ L handle	5 lbs.	69053	$81.00
		3+	$77.00

RAZOR-BACK

Razor-Back® Steel Spades

7812

Steel blade is 7″W at top and tapers to 6″W at bottom. 28″ Handle.

Razor-Back 15″ Steel Spade, Model 2451700 - Features a 15″L blade and a rubber step that attaches to either side of the blade step. 7 lbs.		69030	$67.50
		3+	$62.75
Razor-Back 13″ Steel Spade, Model 163105000 - Features a 13″L blade and dual rubber steps for secure footing. 7 lbs.		69052	$58.25
		3+	$54.50
Extra/Replacement Foot Pad 5 oz.		69054	$10.65

UnionTools®

UnionTools® Spades

3006, 3007

4-3/4″W x 16″L Blade with forward turned step and open back. Polypropylene D-grip.

UnionTools® Model 45-170

Fiberglass D-Handle Drain Spade, Steel reinforcing collar, 27″ handle.

UnionTools Model 45-170 4 lbs.		33865	$39.50
		6+	$36.45

UnionTools® Model 47-108

D-Handle Garden and Nursery Spade, 27″ White Ash Handle.

UnionTools Model 47-108 4 lbs.		33896	$30.75
		6+	$27.50

X Items 60″ or more require an additional handling charge.

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New! Plano Corner Tool Shelf
4874

Stores landscaping tools without taking up a lot of space. Front loading tool slots. Easy to assemble; fits in a corner. **Color:** Two-tone dark green and white. **Assembled size:** 22″D x 22″W x 22″H.

Plano Corner Tool Shelf 5 lbs.	**94719**	**$23.25**

Tool Holder
7369

Perfect for storage! Holds four pushbrooms or other tools of similar size. Features four pre-drilled holes for easy installation. Measures approximately 12″L.

Tool Holder 2 lbs.	**94720**	**$6.95**
	4+	**$6.50**

UnionTools

Manufacturer's Warranty 10 Year

UnionTools® Union Select Fiberglass Handle Bow Rake
4684

Model 2433200

Bow rake features a 15-3/4″W head with 15 teeth, each 3″long. Steel ferrule. 48″Textured fiberglass handle with ergonomic design provides superior comfort and control. Ten-year limited warranty from the manufacturer.

UnionTools Union Select Model 2433200 Bow Rake 4 lbs.	X	**33877**	**$23.50**
		6+	**$22.50**

UnionTools

Manufacturer's Warranty 10 Year

UnionTools® Union Select Fiberglass Handle Round Point Shovel
4685

Model 2433000

9″x 11-1/2″Heavy-duty blade with Dura-Torque® crimp collar, forward turned step, and open back. 48″ Textured fiberglass handle with ergonomic design offers excellent comfort and control. Ten-year limited warranty from the manufacturer.

UnionTools Union Select Model 2433000 Round Point Shovel 4 lbs.		**33878**	**$21.25**
		6+	**$19.50**

UnionTools

Manufacturer's Warranty 10 Year

UnionTools® Union Select Fiberglass Handle Square Point Shovel
4686

Model 2433100

9-1/4″x 11-1/2″Heavy-duty blade with Dura-Torque® crimp collar, forward turned step, and open back. 48″Textured fiberglass handle with ergonomic design offers excellent comfort and control. Ten-year limited warranty from the manufacturer.

UnionTools Union Select Model 2433100 Square Point Shovel 5 lbs.		**33879**	**$21.50**
		6+	**$19.75**

UnionTools

UnionTools® Round Point Shovel
2936

Model 40191

9-1/4″x 11-1/2″Steel blade with forward turned step and open back. 48″White Ash handle. Use in sandy and light soils.

UnionTools Model 40191 4 lbs.	X	**33832**	**$11.50**
		6+	**$10.75**

UnionTools

UnionTools® Irrigation/ Rice and Ditch Shovel
6827

Model 40-108

9-1/4″x 11″Clipped steel blade with three holes for water drainage has rolled step and open back. 48″Handle is White Ash. Use for rice cultivation or maintaining irrigation ditches.

UnionTools Model 40-108 4 lbs.		**33816**	**$28.50**
		6+	**$26.25**

UnionTools

UnionTools® Long Handle Square Point Shovel
3009

Model 40-184

9-1/4″x 11-1/2″Steel blade with rolled step and open back. 48″White Ash handle. Use for loose material and asphalt.

UnionTools Model 40-184 5 lbs.	X	**33883**	**$12.25**
		6+	**$11.25**

X Items 60″or more require an additional handling charge.

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RAZOR-BACK

Razor-Back® Long Handle Round Point Shovel

6824

Professional Grade

Model 45-520

9-1/2″ x 12″ Steel blade with forward turned step and open back. 48″ White Ash handle.

Model 45-520 4 lbs.	**33821**	**$24.95**
	6+	**$22.95**

RAZOR-BACK

Razor-Back® Long Handle Round Point SuperSocket® Shovel

4683

Model 45530

This shovel's extended SuperSocket® provides an overall socket length of 16″, offering extra strength when digging in the hardest, rockiest soil. 8.82″ x 11.25″ Steel blade with forward turned step and open back. 48″ White Ash handle.

Model 45530 5 lbs.	X	**33819**	**$32.95**
		6+	**$29.50**

RAZOR-BACK

Razor-Back® Long Handle Square Point Shovel

3009

Model 44-363

9-1/2″ x 12″ Steel blade with forward turned step and closed back. 48″ White Ash handle. Use in heavy soil.

Razor-Back Model 44-363 6 lbs.	**33882**	**$33.95**
	6+	**$31.75**

RAZOR-BACK

Razor-Back® D-Handle Round Point Shovel

3004

Model 43-205 Professional Grade

9-1/2″ x 12″ Steel blade with forward turned step and open back. 30″ White Ash handle, D-grip is steel and wood. Use in clay or hard soil.

Model 43-205 4 lbs.	**33822**	**$26.75**
	6+	**$24.95**

UnionTools

UnionTools® Long Handle Round Point Shovel

6825

Model 45-106

9-1/4″ x 11-1/2″ Steel blade with forward turned step and open back. 48″ White Ash handle. Dura torque band for extra strength. Use in heavy soil.

UnionTools Model 45-106 Long Handle Round Point Shovel 4 lbs.	**33831**	**$20.95**
	6+	**$19.25**

UnionTools

UnionTools® Fiberglass Handle Round Point Shovel

6826

Model 45-160

9-1/4″ x 11-1/2″ Steel blade with forward turned step and open back. 48″ Fiberglass handle. Use in heavy soil.

UnionTools Model 45-160 Fiberglass Handle Round Point Shovel 4 lbs.	**33880**	**$25.25**
	6+	**$23.25**

TRUE TEMPER

True Temper® Ceremonial Shovel

2935

This shovel stands out at special events!

Perfect for groundbreaking celebrations! The 11.5″ x 8.5″ chrome-plated steel head has a brilliant shine. The D-grip solid hardwood handle is comfortable to use. **Overall Length:** 39.5″.

True Temper Ceremonial Shovel 6 lbs.	**33864**	**$86.95**

TRUE TEMPER

True Temper® True American® Mini D-Handle Round Point Shovel

3023

Ideal for work in tight spaces! Features a forward turned step blade, a 10-3/4″ strong North American Ash handle, and a polypropylene D-Grip handle for comfort.

Blade Width: 6″. **Blade Length:** 8.5″. **Overall Length:** 26″.

True American Mini D-Handle Round Point Shovel 2 lbs.	**33935**	**$13.50**
	6+	**$12.50**

X Items 60″ or more require an additional handling charge.

Work Gloves pages 618 thru 620

[search engine powered by magazooms.com]

AIR-SPADE® Excavation Tools

8355

Dig up to 50% faster than other air excavation equipment!

Use the power of the AIR-SPADE and a 185 cfm air compressor (not included) to safely and quickly dig most types of soil – even hard clays! Producing a stream of supersonic air moving at twice the speed of sound, the AIR-SPADE penetrates and dislodges soil in a fraction of a second while leaving non-porous objects such as plant roots, buried pipes, cables, and fiber optic lines undisturbed. Ideal for use in transplanting, soil compaction relief, plant aeration, vertical mulching, damage analysis, and more.

AIR-SPADE® Series 2000 Excavation Tool

The AIR-SPADE Series 2000 tool features an ergonomic handle with a thermal shield and pressure gauge, a safety "dead man" trigger with guard, a wear-resistant stainless steel nozzle, and an electrically insulating barrel. Includes a 90 psig supersonic nozzle, a 4′ barrel with dirt guard, and a Series 2000 handle with Air-King® hose fitting. **Tip Diameter:** 1.5″.

AIR-SPADE Series 2000 Excavation Tool	9 lbs.	**80450**	**$1319.45**

AIR-SPADE® Series 2000 Kit

Includes the AIR-SPADE Series 2000 tool, 45° angled adapter, 10′ lightweight hose, and storage case with lock. Use the 45° angled adapter to change the direction of air flow and easily work around objects. The 10′ hose is lighter than standard air compressor hoses to help you work more comfortably over extended periods.

AIR-SPADE Series 2000 Kit	38 lbs.	**80451**	**$1946.70**

New! UTILITY AIR-SPADE® Series 4000 Excavation Tool

Designed with ultimate safety in mind, the UTILITY AIR-SPADE Series 4000 tool features a high-voltage insulated barrel that is rated up to 300kV. Non-sparking brass nozzles, connectors, and adapters provide added protection when digging in and around utility lines. The oversized aluminum handle is specially engineered to accommodate users wearing safety gloves and features a plastic-coated ergonomic grip, a pressure gauge, and a "dead man" trigger with guard. A retractable stabilizer bar on the side of the handle allows you to operate the tool using both hands. Includes a 90 psig supersonic nozzle, a 4′ fiberglass barrel with dirt shield, and a Series 4000 handle with a Chicago style swivel connector. **Tip Diameter:** 1.5″.

UTILITY AIR-SPADE Series 4000 Excavation Tool	14 lbs.	**80460**	**$1495.75**

New! UTILITY AIR-SPADE® Series 4000 Kit

Includes the AIR-SPADE Series 4000 tool, 45° angled brass adapter, 10′ lightweight hose, and storage case with lock. Use the 45° angled adapter to change the direction of air flow and easily work around objects. The 10′ hose is lighter than standard air compressor hoses to help you work more comfortably over extended periods.

UTILITY AIR-SPADE Series 4000 Kit	39 lbs.	**80461**	**$2567.00**

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Handy Mattock Axe
2909

Thanks to the 2-sided head, this one tool is designed for cutting, chopping and clearing jobs. The mattock blade is great for exposing shallow roots and other debris that needs cutting while the axe blade can be used to cut the roots, brush or even prune small trees. Choose from a 26″ handle model for use in tight places or a 36″ handle for greater striking power. Mattock blade measures 2-1/4″W. Axe blade measures 2-5/8″W x 3-1/4″L.

26″L Handle 3 lbs.	**33825**	**$16.50**
36″L Handle 3 lbs.	**33826**	**$19.75**

Handy Mattock Pick
2910

Two handy landscaping tools in one! Featuring two heads, you can use the pick side of the head to break up hardened soil and the mattock side can be used for chopping roots, clearing, edging, etc. The mattock blade measures 2-1/4″W. The pick measures 4-1/2″L. Choose from a 26″L or 36″L straight handle.

26″L Handle 3 lbs.	**33827**	**$16.50**
36″L Handle 3 lbs.	**33828**	**$19.75**

Handy Mattock Tiller
2911

This versatile tool combines the chopping and clearing/edging capabilities of a mattock head with the shallow digging and clearing capabilities of tiller tines. The mattock blade measures 2-1/4″W. The tiller side has three sturdy 5″ tines. Available with a 26″L or 36″L straight handle.

26″L Handle 3 lbs.	**33829**	**$16.50**
36″L Handle 3 lbs.	**33830**	**$19.75**

Council Pulaski-Forester Axe
1572

Combination axe and grub hoe for chopping, grubbing and digging fire lines in brushy, rocky terrain. 3-3/4 lb. Head. 36″ Wood handle.

Council Pulaski-Forester Axe 6 lbs.	**85270**	**$53.25**
	6+	**$50.50**
	12+	**$47.50**
Leather Sheath 6 oz.	**85273**	**$19.50**
Replacement Hickory Handle 2 lbs.	**33236**	**$14.50**

True Temper® Five-Pound Cutter Mattock Head
3019

For use in breaking up soil, digging trenches, and cutting through roots. Drop-forged steel head is heat-treated for durability and features a polished black finish. Measures 3″W x 16″L x 3.5″H. Cutter mattock head only. Handle sold separately (33843).

True Temper Five-Pound Cutter Mattock Head 5 lbs.	**33873**	**$16.95**
	6+	**$15.50**

True Temper® Five-Pound Pick Mattock Head
3019

For use in breaking up rocky surfaces, concrete, and compacted soil. Drop-forged steel head is heat-treated for durability and features a polished black finish. Measures 2.5″W x 19″L x 3.75″H. Pick mattock head only. Handle sold separately (33843).

True Temper Five-Pound Pick Mattock Head 5 lbs.	**33872**	**$16.95**
	6+	**$15.50**

True Temper® Six-Pound Clay Pick Head
3019

For use in digging or grubbing compacted surfaces until they loosen. Combines a pick blade with a mattock blade. Drop-forged steel head is heat-treated for durability. Measures 2.75″W x 24.5″L x 3″H. Clay pick head only. Handle sold separately (33843).

True Temper Six-Pound Clay Pick Head 6 lbs.	**33871**	**$19.75**
	6+	**$18.25**

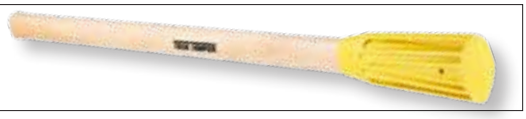
Corona® Trenching Shovels
8005

The 35° angle of the handle allows for easy cleaning and digging of trenches with less strain on your back. Features a 12 gauge steel blade for maximum strength. 48″ American ash wood handle. Available in 3″ and 4″ models.

3″ Trenching Shovel 4 lbs.	**33808**	**$21.25**
4″ Trenching Shovel 4 lbs. X	**33809**	**$21.25**

True Temper Cutter & Pick Mattock Handle
Hickory, 36″ long.

36″ Hickory Handle	2 lbs.	**33843**	**$13.75**



X Items 60″ or more require an additional handling charge.

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New!

The Groundskeeper II Full-Size Rake

4884

The aggressively angled tines dig in with little or no pressure needed, allowing you to stand up straight while using the rake and relieving stress on your back. Features a no-break co-polymer head and swivel hanger.

Head Length: 21″. **Number of Tines:** 28. **Handle Length:** 55″.

The Groundskeeper II Full-Size Rake			
2 lbs.		**33835**	**$29.95**
		6+	**$27.95**
Tine Repair Kit, pack of 7			
5 oz.		**33836**	**$6.95**

TRUE TEMPER

5 Manufacturer's Warranty 5 Year

True Temper® 10-Tine Manure/Bedding Fork

2934

Model 1896000

Use this versatile tool to transfer manure, mulch, hay, or other loose material. Tine head is mounted to a 48″ North American Ash handle with a chrome-plated steel ferrule for outstanding strength and durability. Ten 12″L tines are spaced 3/4″ at point and blade ferrule. Five-year manufacturer's warranty. **Overall Length:** 61″.

True Temper 10-Tine Manure/Bedding Fork			
4 lbs.	X	**33891**	**$51.95**

UnionTools

UnionTools® D-Handle Compost Fork

3016

Model 74-156

Durable, one-piece, forged head features five 12-1/2″ long, oval tines with 9″ spread at points. 8″ Ferrule with cap. 36″ White Ash handle with comfortable, polypropylene Big Grip D-grip, large enough for use with heavy gloves.

UnionTools Model 74-156			
4 lbs.	O	**33931**	**$42.95**
		3+	**$41.25**

UnionTools

UnionTools® Scuffle Hoe

3017

Model 68-730

Great for weeding, the push-pull action of this scuffle hoe combined with the double-edged blade allows you to cut both ways! Features a 1″ x 6″ blade on a 54″ handle.

UnionTools Model 68-730 Scuffle Hoe			
2 lbs.		**33989**	**$24.95**
		3+	**$23.25**

TRUE TEMPER

True Temper® Sod Lifter & Edger

1956

9″ x 5″ One-piece, forged blade. 5/8″ x 18″ shank, angled for cutting. 32″ ergonomically correct, White Ash handle with steel and wood D-Handle. 10″ Taper-tight ferrule. Use for cutting and lifting sod to be transplanted.

True Temper Sod Lifter & Edger			
5 lbs.		**33933**	**$90.50**

TRUE TEMPER

True Temper® Penguin® Snow Pusher

4438

Ideal for pushing light to medium accumulations of snow. Features a 24″ x 11″ ribbed poly blade. The VersaGrip™ handle accommodates multiple gloved hand positions. 43″ Vinyl-coated steel handle. **Note:** Ships in two pieces. Assembly required.

Ames True Temper Penguin Snow Pusher			
4 lbs.		**33923**	**$29.50**
		6+	**$27.50**

UnionTools

UnionTools® D-Handle Scoop Shovel

3010

Model 79-770

14-3/4″ x 18-3/4″ ABS Poly blade. 36″ White Ash handle with polypropylene Big-Fist™ D-grip. Use for grain or snow.

UnionTools Model 79-770			
3 lbs.	O	**33898**	**$25.25**
		6+	**$22.95**

Aazel Sand Rake

4419

Perfect for cleaning golf course sand traps, playgrounds, beaches, dog runs, or other sandy areas. Features a 24″ or 16″ wide head, wire mesh with 1/4″ openings, and 6′ angled aluminum handle which can be easily pulled behind.

24″ Sand Rake			
7 lbs.		**33805**	**$99.95**
16″ Sand Rake			
5 lbs.		**33807**	**$90.95**

O Oversize. Ships at Oversize rate. See Shipping Information for details.
X Items 60″ or more require an additional handling charge.

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Agri-Fab® 44″ Tow-Behind Lawn Sweeper
www.forestry-suppliers.com

36″ Field Rake
2075

Engineered to the specifications of professional landscapers! Made in USA

Features an extended striking edge for grading and rounded teeth for smooth, non-gouging raking action. Durable 66″ handle is made of powder-coated aluminum and has a vinyl grip. Strong, wrap-around bracing provides long-lasting performance. Made in the USA.

36″ Field Rake	X	5 lbs.	33801	$64.50
			3+	$61.95

Dura Rake
6744

Made in USA

Constructed of aircraft-quality steel. Teeth support and teeth are heat treated for ultimate strength and durability. 60″ long handle has plastic and foam cushion grip. Choose from 18″ or 24″ wide heads.

18″ wide head	O	4 lbs.	33802	$59.70
			3+	$56.60
24″ wide head		4 lbs.	33803	$66.95
			3+	$63.95

TRUE TEMPER

New! True Temper® ClogFree Poly Leaf Rake with Cushion Grip
4808

10 Manufacturer's Warranty 10 Year

Patented design eliminates the spaces where debris might normally get stuck in the tines. Cushioned grip on the 48″ North American Ash handle ensures superior comfort and control.

24″ Wide Rake Head with 11 Tines		2 lbs.	33858	$18.50
			12+	$17.25
30″ Wide Rake Head with 15 Tines		2 lbs.	33859	$21.75
			12+	$19.95

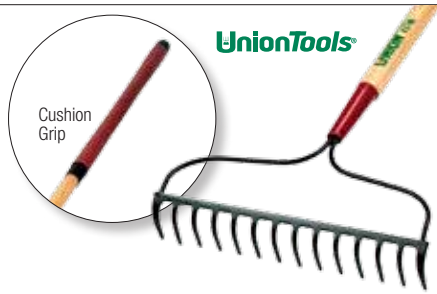
RAZOR-BACK

Razor-Back® Bow Rake
3014

Model 63-141

Deluxe Bow Rake, 16″W head with 15 teeth, each 3-1/4″ long. White Ash handle is 60″ long. Use to spread soil and gravel.

Razor-Back Model 63-141 Bow Rake	O	4 lbs.	33804	$25.25
			6+	$23.25



UnionTools

UnionTools® Bow Rake
4217

Model 63-089

Bow Rake, 13-3/4″W head with 14 teeth, each 2-3/4″ long. 60″L White Ash handle features cushion grip. Use to spread soil.

UnionTools Model 63-089 Bow Rake	X	3 lbs.	33890	$13.50
			6+	$12.50

Barnel® Telescoping Steel Rake
7449

Lightweight, aluminum rake adjusts from 3′ to 6′ thanks to the telescoping handle. Spring steel tines have an adjustable spread from 7-1/2″ to 22″. Super strong CAM-lock design allows for angling of tines.

Telescoping Rake		2 lbs.	33850	$20.75
			6+	$18.95

UnionTools

UnionTools® 24″ Poly Rake
2236

Model 64-309

24″ Poly rake with 24 reinforced tines. 48″ Wood handle. **Note:** Ships in two pieces. Assembly required.

UnionTools Model 64-309		2 lbs.	33857	$8.95
			12+	$8.25

UnionTools

UnionTools® 22″ Steel Tine Rake
4218

Model 64-430 Rake

22″W lawn rake with 22 steel tines, each 7″ long. 48″ White Ash handle. Use for lawn and garden clean up. Assembly required - ships in 2 pieces.

UnionTools Model 64-430 Rake		2 lbs.	33856	$11.20
			12+	$10.00

Firebroom Rake
1570

For clearing fire lines of leaves, needles and other light ground litter. Constructed with 18 tines, made of high strength yet flexible 0.120″ oil tempered spring steel.

Model 11-18-12, 48″L Wood Handle, 12″ long tines	X	3 lbs.	85216	$14.50
			12+	$13.25
Model 11-18-16, 48″L Wood Handle, 16″ long tines	X	3 lbs.	85215	$14.75

O Oversize. Ships at Oversize rate. See Shipping Information for details.
X Items 60″ or more require an additional handling charge.

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InteraTARP SUV Fitted Tarp
7365

Custom manufactured from woven 14 mil cargo freight grade material, InteraTARP can withstand the toughest loads, from mulch to machine parts. Turns any SUV or Minivan into a pickup for hauling small loads of gravel, dirt, mulch or other dirty cargo. Easy to use, it goes in and out in less than a minute without any permanent attachments, plus it is easy to clean - just hose it off. The box design protects the back of forward seats and the interior sidewalls, while the rear flap doubles as protection for the interior side of tailgate or hatch door and also protects the bumper when loading and unloading cargo and debris. Waterproof and tear proof. Compact, it rolls up for convenient under seat storage.

Small (42˝ Wide) - for vehicle cargo lengths from 46˝ to 56˝ (such as RAV4, CRV, Outback, Matrix, Liberty)	2 lbs.	**35583**	**$31.50**
		5+	**$28.50**
Large (48˝ Wide) - for vehicle cargo lengths from 74˝ to 96˝ (such as Suburban, Expedition, Grand Caravan)	3 lbs.	**35585**	**$39.95**
		5+	**$36.95**

The Sling Bag
8577

The Sling Bag can hold loads up to 3,000 lbs. and is perfect for use anywhere a sheet of plywood or tarp would normally be used to collect dirt or trimmings. Four sewn straps allow you to hand carry The Sling Bag or drag it behind a tractor. The Sling Bag can be used to lift a balled tree, drag bags of concrete, and more! The geo-textile fabric will not mold and allows moisture to escape while holding in all contents. **Dimensions:** 7´10˝ x 7´10˝.

The Sling Bag	5 lbs.	**69181**	**$89.00**
		3+	**$79.00**

Loadumper Cart
4116

Ideal for landscapers! Made in USA

Engineered for ease of handling, these carts require no lifting to haul and provide stability, balance and ease of operation. Other features include a heavy-duty tub made of non-corrosive polyethylene, a powder-coated all-steel tube chassis and 16˝ Memory Foam Flat-Free tires. Manufactured in the USA.

Loadumper Cart, 6 Cubic Foot Capacity		57 lbs.	**54072**	**$185.50**
			2+	**$174.95**
Loadumper Cart, 8 Cubic Foot Capacity	F	60 lbs.	**54070**	**$227.25**
			2+	**$189.75**

Rubbermaid® Big Wheel® Cart
1986

Outstanding durability and mobility.

One-piece Duramold® construction. Resistant to most farm and lawn/garden chemicals. Seamless body makes cleaning easy. Reinforcement ribs offer added impact resistance. Comfortable molded hand grip. 20˝ x 1.75˝ Semi-pneumatic wheels provide easy mobility over most surfaces. 3.5 cubic foot capacity.

3.5 cu. ft. Big Wheel Cart – Carries up to 200 lbs. and measures 20-1/2˝ wide	F	48 lbs.	**54060**	**$235.95**

Rubbermaid® Utility Cart
1985

So durable, it's the cart our warehouse guys use every day!

Ideal for transporting materials, supplies, and heavy loads! An ergonomic push handle provides optimum hand placement and push height to improve control and user safety. In addition to an easy-access bottom shelf, the cart features molded-in storage compartments, holsters, hooks, notches, and customizable fittings. Best-in-class casters stand up to the most demanding work environments. Constructed of high-density structural resin. 45-1/4˝L x 25-7/8˝W x 33-1/4˝H.

Rubbermaid Utility Cart	O	42 lbs.	**54023**	**$270.95**

F Ships Motor Freight. See Shipping Information for details.
O Oversize. Ships at Oversize rate. See Shipping Information for details.

[search engine powered by magazooms.com]

DeWitt Flexible Intermediate Bulk Container

4755

2000 lb. Bulk Bag

Used by landscapers, contractors, manufacturers, and distributors. Made of strong, UV-resistant woven polypropylene, this reusable bulk bag is ideal for storing or transporting dry, flowable products such as sand, fertilizer or mulch. Bags can be loaded and transported on either pallets or by lifting from the cross corner support loops with a forklift. Containers are emptied by a special opening in the bottom of the bag. Each bag transports, protects and stores up to 2,000 pounds or 1-ton of dry goods. **Dimensions:** 25-1/2″L x 25-1/2″W x 27-3/4″H.

2,000 lb. Bulk Bag	2 lbs.	**69190**	**$14.50**

Barnel® Spring Bucket

8347

Collapses to just 3″H for easy transportation and storage! Mesh-supported, tear-resistant PVC construction, extra strong spring with anti-corrosion plating, extra thick perforated bottom panel, quick connector clips for easy collapsing action, and a padded adjustable shoulder strap.

22″ x 26″ Spring Bucket	6 lbs.	**35980**	**$36.50**
		6+	**$33.50**

Lawn Bagg™

4691

Perfect for lawn maintenance activities! Lightweight bags are free-standing and have 4 corner loops for easy lifting and hauling of landscape wastes. Foldable, polypropylene bags are puncture-resistant and will not tear.

Lawn Bagg, Small, 10 Cu. Ft./75 Gallon Capacity. Measures 24″L x 24″W x 30″H.	3 lbs.	**69185**	**$31.75**
Lawn Bagg, Medium, 18 Cu. Ft./135 Gallon Capacity. Measures 30″L x 30″W x 35″H.	3 lbs.	**69186**	**$38.50**
Lawn Bagg, Large, 27 Cu. Ft./202 Gallon Capacity. Measures 34″L x 34″W x 40″H.	4 lbs.	**69187**	**$41.75**

Double-Bottom Lawn Bagg™

4691

Constructed with two layers of heavy gauge woven polypropylene material on the bottom making this bag ideal for really tough landscaping jobs! Four corner loops make lifting and hauling landscape wastes easy. Two side-handles make 2-person hauling easy.

Double-Bottom Lawn Bagg™ – 21.5 Cu. Ft./161 Gallon Capacity. Measures 32.5″L x 32.5″W x 35″H.	4 lbs.	**69188**	**$44.95**

Lawn Bagg™ Tarp

4690

Strong, puncture-resistant, heavy gauge woven polypropylene material will not shred like traditional tarps. A handle is sewn into each of the 4 corners which makes hauling easy for one- or two-person jobs! Water-resistant, mildew proof, and it will not rot. **Dimensions:** 10′ x 12′.

Lawn Bagg Tarp	7 lbs.	**69184**	**$49.95**

solo

Solo® Model 467 Power Blower

7737

Powerful, yet quiet operation! Single-cylinder, two-stroke 66.5 cc engine produces 2.9 hp, has a 1/2 gallon fuel tank capacity and uses low emission technology. This fuel efficient backpack air blower can operate for more than 80 minutes on a single tank of fuel. Other features include effective vibration dampening, single multi-function operating handle with lockable gas lever, air filtering system with high performance filter, and a strong tubular aluminum frame. **Air Volume:** Max. 1400 m^3/h.

Solo® Model 467 Power Blower 28 lbs.	R10	**13113**	**$566.50**

ECHO

Echo® Gas-Powered Backpack Blower

7446

Comfortable operation coupled with a low noise performance of 65 dB(A) make this blower ideal for noise sensitive environments! The 25.4 cc Power Boost Vortex™ Engine Provides Plenty of Power, and the Posi-Loc™ System secures pipe connection. Other features include padded backrest and shoulder straps, variable speed throttle with cruise control, i-30™ Technology which reduces starting effort by 30%, and a 22.3 fl. oz. see-through fuel tank. Plus, it weighs only 13.3 lbs! **Noise Level (ANSI):** 65 dB.

Echo Model PB-265L Backpack Blower 17 lbs.		**13178**	**$286.95**

R10 Cannot be sold in CA

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ANSI Class 2 Two-Tone Mesh Safety Vest
page 573

Outdoor Research BugOut Gaiters™
page 642

G4® Trash Gator
2937

33″ or 40″ Reach

This industrial-quality pick-up tool has a wide jaw opening that can even accommodate a two-liter bottle! Features a rugged aluminum shaft and high-impact plastic handle.

33″ G4 Trash Gator 13 oz.	**94638**	**$23.95**
40″ G4 Trash Gator 14 oz.	**94643**	**$24.95**

Grab-It® Litter Gitter
6320

30″ or 54″ Reach

Features a cane-shaped handle, a sturdy tubular metal rod, and action ends of strong steel strapping. Grip surfaces are rubber caps. Easily retrieves items 4-1/2″ thick.

30″ Grab-It Litter Gitter 8 oz.	**94642** 10+	**$19.95** **$17.75**
54″ Grab-It Litter Gitter 11 oz.	**94636** 10+	**$24.50** **$21.00**

D.O.T. Reachers
1922

32″, 48″, or 72″ Reach

Strong enough to pick up a 5 lb. brick, yet nimble enough to pick up a dime. Industrial-quality pick-up tool eliminates repetitive bending. Aluminum stalk with high-impact plastic handle, flexible stainless steel side and center straps, and rubber cups which open to 4-1/2″.

32″ D.O.T. Reacher 12 oz.	**94656** 12+	**$17.50** **$13.95**
48″ D.O.T. Reacher 1 lb.	**94645** 12+	**$19.50** **$16.95**
72″ D.O.T. Reacher 1 lb. ⓧ	**94648** 12+	**$28.95** **$26.95**
Replacement Cups for D.O.T. Reacher 1 oz.	**94657**	**$3.95**

TURFgrabber™ Traction Gear
4718

Ideal for landscaping professionals, groundskeepers, park maintenance crews and highway median crews! Dramatically improves traction for increased productivity while reducing the risk of slips and falls on wet, hilly and uneven terrain. Engineered to be lightweight with a low center of gravity and wide platform for better stability. The aggressive replaceable cleat and tread combine to give you secure footing for safer "walk-behind" operations. Tension fit bindings made from dual density Thermoplastic Elastomer (TPE) fits securely to sneakers, shoes and work boots.

TURFgrabber, Small, Fits Men's shoe sizes 6-8; Women's shoe sizes 7.5-9.5. 13 oz.	**23029**	**$28.50**
TURFgrabber, Medium, Fits Men's shoe sizes 8-10.5; Women's shoe sizes 9.5-12. 14 oz.	**23013**	**$28.50**
TURFgrabber, Large, Fits Men's shoe sizes 10.5-12.5; Women's shoe sizes 12+. 15 oz.	**23014**	**$28.50**
TURFgrabber Replacement Cleats, pk of 25 2 oz.	**23015**	**$9.95**

Safety Vests
pages 573 thru 576

Barnel® Spring Bucket
page 213

Litter Stick
4488

40″ Reach

This litter stick features a 40″ long aluminum shaft with a durable steel tempered tip for quick litter pickup and a soft rubber grip handle for comfort while working.

Litter Stick 6 oz.	**94616** 12+	**$12.25** **$9.95**

Litter Bag
1927

Ideal for cleaning up litter and other debris.

Reusable, vinyl-covered nylon bag features a 17-1/2″ wide mouth with a metal reinforced rim to hold it open. Features a removable shoulder strap for convenient carrying and a handle at the base for hassle-free emptying. Handwashable. **Capacity:** 4.45 cu. ft.

Litter Bag 2 lbs.	**35923** 12+	**$23.95** **$19.95**

ⓧ Items 60″ or more require an additional handling charge.

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Justrite® Smokers Cease-Fire
2050

A safe, effective way to dispose of cigarette butts!

The Cease-Fire's attractive, innovative design quickly and safely extinguishes cigarettes by limiting oxygen flow. The covered opening is specially sized to accept cigarette butts while discouraging other unwanted trash. A 16 qt. capacity galvanized steel liner pail allows for easy cleaning, and the twist-on lid prevents spills. The broad base offers stability, and two tie-down notches provide additional security. Constructed of high density polyethylene with a flame retardant additive and UV protection, the Cease-Fire won't rust, dent, crack, or peel. **Dimensions:** 38.5″H x 16.5″ dia.

Justrite Smokers Cease Fire	O	12 lbs.	**36010**	**$61.75**
			4+	**$55.50**

55-Gallon Steel Drum Top
2284

Instantly converts a 55-gallon steel drum to an FM-approved, OSHA-compliant covered waste container! Constructed of heavy gauge, powder-coated steel. Features a spring-loaded push door. Thumb screws included for securing drum top to steel drum. **Diameter:** 24-1/2″.

Black	O	12 lbs.	**36024**	**$130.50**
			3+	**$115.95**
Green	O	12 lbs.	**36012**	**$130.50**
			3+	**$115.95**
Red	O	12 lbs.	**36025**	**$130.50**
			3+	**$115.95**

Expanded Steel Street Baskets
2282

Ideal for high-traffic areas!

Constructed of hot dipped galvanized steel, these trash baskets withstand tough everyday use as well as harsh weather conditions. The see-through design also makes the baskets ideal for use in airports and other high security areas. Features include reinforced curled edges for easy handling, tapered design for convenient storage, and bottom drain holes to prevent water accumulation. Use an optional Drum Top (sold separately) for additional litter containment. **Diameter:** 24″. **Capacity:** 45-gallons.

Black	O	35 lbs.	**36023**	**$242.00**
			3+	**$231.00**
Green	O	35 lbs.	**36014**	**$242.00**
			3+	**$231.00**

Litter Bags & Drum Liners
7206

Heavy-duty bags for demanding industrial use!
50 Bags per roll.

Litter Bags

20-30 Gallon size litter bags measure 30″ x 37″ and are 1.5 mil thick. Available in Orange or Black.

Litter Bags, Orange	5 lbs.	**36020**	**$17.25**
		5+	**$14.85**
		10+	**$13.90**
Litter Bags, Black	5 lbs.	**36022**	**$17.25**
		5+	**$14.85**
		10+	**$13.90**

Drum Liners

55-65 Gallon size drum liners measure 38″ x 65″ and are 2.0 mil thick. Black.

Drum Liners	15 lbs.	**36021**	**$39.95**
		5+	**$34.50**
		10+	**$32.25**

O Ships at Oversize rate. See Shipping Information for details.

Talstar® Xtra Granular Insecticide
7755

Featuring Verge™ Granule Technology

Proven to eliminate dangerous fire ant colonies in four hours or less, this broad spectrum control insecticide is labeled for use against most ants, as well as chinch bugs, fleas, ticks, mole crickets, crane flies and many other lawn pests. Approved for broadcast lawn, perimeter and mound treatments on a wide variety of application sites, including residential lawns, institutional grounds, around buildings (public, commercial and industrial), parks, recreational areas, and athletic fields. Unique sand core granular structure prevents granules from drifting off target and provides better penetration into mulch.

Active Ingredient: Zeta-Cypermethrin, 0.05%; Bifenthrin, 0.20%. **Broadcast Application Rate:** 0.125-0.50 lbs. / Acre.

Talstar Xtra Insecticide, 25 lb. Bag				
25 lbs.		R10	**17115**	**$39.75**

Amdro® Yard Treatment Fire Ant Bait
8338

This bait provides 3-way protection against fire ants: it kills the Queen, it sterilizes new invading Queens, and it prevents new mounds from forming. Broadcast treatment treats up to 10,000 sq. ft. and provides season long control. For best results, apply when ants are active (typically when soil temperature is greater than 60°F). Warning: This product is not for use on vegetable or other food crops, timber or plants grown for sale or other commercial use, or for commercial seed production, or for research purposes.

Amdro Yard Treatment Fire Ant Bait, 5 lbs.			
5 lbs.	R10	**17100**	**$25.50**

R10 Restricted. Cannot be sold in CA.

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Convertible Dump Cart page 193

Spades page 159

Diablo Nursery Ball Cart

8763

The triple reinforced lip reduces root ball slippage and trunk damage plus it has a work load capacity of 1,200 lbs. Features include a heavy-duty, integral tow hook; a 1″ solid steel reinforced axle; continuous tubular steel frame (1-1/8″ x 14 ga.); all-weather high gloss orange polymer coating; 16″ x 6.50 high flotation tires. Fits easily through standard 36″ yard gates.

Overall dimensions: 34″ wide x 61″ tall. **Throat Size:** 21″D x 24″W. **Root ball Size:** 32″.

Diablo Nursery Cart	F	67 lbs.	**54057**	**$381.00**

Flat Hauler Nursery Cart

8058

Made in USA

Easy to maneuver in tight and narrow spaces, this all-purpose cart is ideal for hauling and moving flats. Features include a weather-resistant powder-coated, structural tube steel frame, steel chassis, pneumatic tires, and a heavy duty 24″ x 48″ reinforced deck that provides 8 square feet of unobstructed space for handling any number of nursery and greenhouse chores.

Flat Hauler with Rail	O	65 lbs.	**54075**	**$279.50**

Tree Tote Sling

1971

Get a handle on bulky trees!

Quality nylon webbing provides a convenient method of handling heavy, bulky trees without endangering workers. Reduces damage to plant balls. Virtually indestructible.

Fits root balls 14″ to 26″ in diameter	3 lbs.	**69169**	**$107.75**
Fits root balls 20″ to 36″ in diameter	4 lbs.	**69165**	**$147.75**
Fits root balls 40″ to 54″ in diameter	5 lbs.	**69166**	**$173.75**
Fits root balls 54″ to 66″ in diameter	14 lbs.	**69175**	**$365.00**

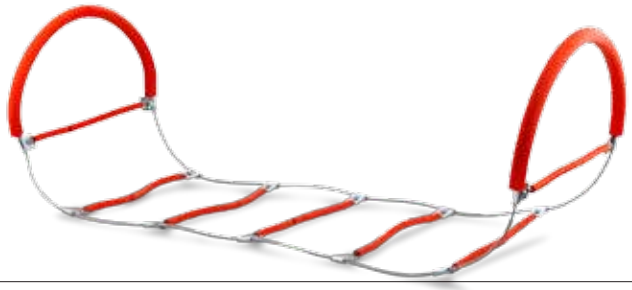
Barnel® B&B Tote

4110

Enables essential nursery field work to be done without using heavy equipment.

Designed to cradle the root ball of a tree, this burlap ball carrier enables the tree to be positioned upright or to trail behind the handlers. Other features include rust-free, tangle-free, easy-to-clean aircraft cable construction and reinforced non-slip handles. **Length:** 48″. **Bar Width:** 12″. **Recommended Weight Capacity:** with the application of proper lifting techniques and wearing a back support, 150-200 lbs. for two persons.

Barnel B&B Tote	3 lbs.	**69164**	**$66.50**



F Ships Motor Freight. See Shipping Information for details. O Oversize. Ships at Oversize rate. See Shipping Information for details.

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Metal Sign Stands
7148

Perfect for plant identification. Galvanized material with rounded edges. Tab design allows maximum view of sign card (sold separately). Use alone as stakes or add the optional base adapter (sold separately).

7″ x 5″ Sign Holder with 18″ Leg	10 oz.	**24810**	**$2.25**
		25+	**$2.00**
11″ x 7″ Sign Holder with 18″ Leg	1 lb.	**24811**	**$2.40**
		25+	**$2.15**
11″ x 7″ Sign Holder with 30″ Leg	1 lb.	**24812**	**$3.20**
		25+	**$2.90**
Base Adapter	2 lbs.	**24882**	**$4.25**

Blank Sign Cards

Made of 0.024″ gauge light polyethylene plastic.

7″ x 5″ Blank Card for Sign Holders	1 oz.	**24711**	**$0.95**
		25+	**$0.85**
		50+	**$0.75**
		100+	**$0.70**
11″ x 7″ Blank Card for Sign Holders	1 oz.	**24710**	**$1.50**
		25+	**$1.35**

Plain Burlap
2612

This continuous length rolled 7 oz. burlap is ideal for wrapping root balls.

Plain Burlap, 36″W x 100 yds.	38 lbs.	**92645**	**$86.75**
Plain Burlap, 48″W x 100 yds.	54 lbs.	**92647**	**$108.75**
		3+	**$102.95**

Stanley Bostitch Manual Ring Pliers
2685

Ideal for nursery use!

Great for fastening netting/mesh burlap to wire baskets, trap and cage assembly, attaching bird/animal netting, closing bags, etc. Uses a 16 ga., 11/16″ C-ring fastener.

Stanley Bostitch Manual Ring Pliers	13 oz.	**92660**	**$52.25**
Ring Fasteners, Box of 2,500	2 lbs.	**92661**	**$24.25**

Twine
2724

Poly Twine

This soft polypropylene twine is easy to tie and rot resistant for long life.

2-Ply, approx. 2,750′ in 10 lb. ball. Tensile strength: approx. 550 lbs.	10 lbs.	**92669**	**$31.50**

Pull Hooks
8087

Made in USA

Ideal for handling, pulling and carrying root balls! The longer lengths are handy in pulling root balls off trucks and trailers. Solid steel shafts have tapered hooks on one end with a tubular steel handle on the other.

15″ Pull Hook	1 lb.	**69116**	**$21.25**
28″ Pull Hook	2 lbs.	**69117**	**$24.50**

Wood Pot and Garden Stakes
1826

Ideal for labeling plants in nurseries, horticulture labs, and research plots!

Made from top-quality birch. Can be written on with ballpoint pen, pencil, markers, and crayons.

1-1/8″ x 12″, Box of 250 7 lbs.		**79495**	**$37.90**
		3+	**$34.80**

"Perfect" Plastic Pot Labels
1824

Plastic labels will not curl, crack, or fade. Easily marked – can be washed and re-marked. Box of 500.

3/4″ x 4″ 1 lb.		**79496**	**$27.95**
		5+	**$25.50**
1″ x 6″ 3 lbs.		**79497**	**$35.50**
		5+	**$31.75**
1-1/4″ x 8″ 5 lbs.		**79498**	**$46.50**

Jiffy Peat Pellets
6343

Pre-Drilled

Sow or transplant into pots for ideal growing medium. These small discs of fertilized, sterilized, compressed peat expand when water is added. Pellets are encased in plastic net, pre-drilled for unrooted cuttings, and are 1/4″ x 1-3/4″ dry, 1-3/4″ x 1-3/4″ wet. **pH level:** 6.0-6.3.

Jiffy-7, Case of 1,000 17 lbs.		**93035**	**$108.50**
		3+	**$95.95**

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W.E. Chapps Backpack Blower Cover
7942

Custom fits and protects all backpack blowers. Waterproof, abrasion- and tear-resistant outer cover keeps rain, dust and dirt out. Easy on - Easy off Hook and Loop Fasteners fasteners secure cover to backpack blower and adjustable carrying handle attaches the blower to the rack, trailer or inside the truck.

Backpack Blower Cover 13 oz.	**23441**	**$44.50**

W.E. Chapps Trimmer Motor Cover
7455

Waterproof, tear- and abrasion-resistant, and made for harsh outdoor conditions! Designed to individually fit and protect all string trimmer, stick edger, brush cutter, pole saw and most hedge trimmer engines including fuel tanks. Proven at sustained highway speeds for open trailer transportation. Also keeps dirt, excessive dust and water out of the carburetor. Fully adjustable.

Trimmer Motor Cover 5 oz.	**23442**	**$26.95**

Fuel Cans pages 726 & 727

New! Better Built® Tall Trailer Tongue Box
4922

Ideal for storing tie-downs, wheel chocks, and towing items! This aluminum trailer tongue box features a paddle latch that ensures outstanding security as well as easy locking and unlocking. A premium shock provides maximum stability for the lid. The lid also features a reinforced brace, an adjustable striker, a continuous aluminum piano hinge, and weather-resistant seals. **Dimensions:** 34″ to 21″ L x 14″W x 22″H.

Tall Trailer Tongue Box	O	22 lbs.	**93768**	**$240.00**

Polymer Trailer Tongue Box
4503

Constructed of molded high-density polyethylene, this box adds secure storage to your trailer. Features a full-length integrated hinge and a zinc-plated hasp latch. Designed to mount to the front of A-Frame style trailers. **Dimensions:** 18″ x 20″ x 36″.

Polymer Tongue Box	O	20 lbs.	**93810**	**$119.00**
			2+	**$109.00**

Hy-Pro™ 15-Gallon Professional Fuel Station
7874

Model FST-15

Designed for mounting to a trailer, this 15-gallon gravity-feed fuel station is made of rugged steel and can be used with all types of fuel. Features include a 10′ hose with metal nozzle and a shut-off ball valve. The gravity feed tank requires mounting at a higher level than receiving tanks. Mounting hardware included. UN/DOT compliant. **Unit Dimensions:** 38″L x 11″W x 14″H.

Hy-Pro™ 15-Gallon Professional Fuel Station	O	30 lbs.	**94721**	**$158.95**

Ballard Super Jack
7461

Provides safe and easy access under the deck thanks to the stable 2-arm adjustable design. Lifts all zero turn, stand on, and walk behind commercial mowers for a 24″ working clearance. Galvanized finish. No-flat tires.

Super Jack	50 lbs.	**94724**	**$219.00**

Transfer Pumps page 724

Ez Gate Trailer Gate Lifter
3744

Reduces lifting by 90% - 1 Kit works on gates up to 200 lbs. Features include a no-rattle spring insert, stainless housing and aluminum hardware. Universal 1-hour installation. 1-Year Warranty from the manufacturer. **Note:** Works on all utility trailers with side rails.

EZ Gate Trailer Gate Lift	15 lbs.	**94723**	**$128.95**

O Oversize. Ships at Oversize rate. See Shipping Information for details.

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Gatorade® Thirst Quencher page 662

Landscape Trailer Accessories

3744

Made in USA

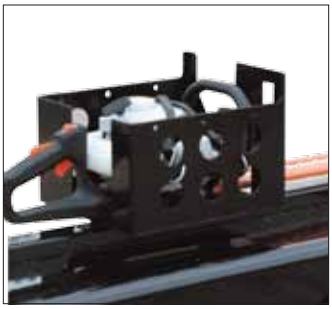
Secure a variety of tools and equipment to your trailer!

All accessories are constructed of heavy duty black powder-coated steel and include mounting hardware. Made in the USA.

Lockable Trimmer Rack

This rack's snap-in design allows for easy one-hand operation. Features include long-lasting stainless steel springs and vinyl-coated hooks. Holds three trimmers. Trimmers can be secured with a padlock (not included). For use on open trailers.

Lockable Trimmer Rack 24 lbs.	**94700**	**$155.00**



Multi-Rack

Use to protect and secure your hedge trimmers, chain saws, or handheld blowers. Rubber straps included for securing equipment. For use on open or enclosed trailers.

Multi-Rack 14 lbs.	**94701**	**$58.25**

Backpack Blower Rack

Blower securely mounts on hook with spring latch. Rubber strap included to secure equipment. For use on open or enclosed trailers. **Note:** Not for use with STIHL® BR400 Series Blowers.

Backpack Blower Rack 10 lbs.	**94702**	**$52.25**

Hand Tool Rack

Get organized and keep your trailer clutter-free with this rack! The rack holds up to six straight handle tools. The included rubber grommets protect your tools. For use on open trailers.

Hand Tool Rack 11 lbs.	**94705**	**$72.50**

Water Cooler Rack

Accommodates most standard size coolers. Adjustable straps included. For use on open or enclosed trailers.

Water Cooler Rack 8 lbs.	**94703**	**$45.75**
	2+	**$41.95**

Gas Can Rack

This rack can hold one 5-gallon or two 2.5-gallon rectangular polymer gas cans. Strap included for securing load. For use on open or enclosed trailers.

Gas Can Rack 13 lbs.	**94704**	**$52.95**

Trimmer Line Spool Bracket

This bracket accommodates one 3 lb. spool of trimmer line (not included). For use on open or enclosed trailers.

Trimmer Line Spool Bracket 2 lbs.	**94706**	**$21.95**

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ECHO

Echo® String Trimmer

2280

Model SRM-266

This heavy duty string trimmer features a 25.4 cc commercial-grade, dual-ring piston engine with a 4-bolt head and fully caged needle bearings at the top and bottom of the forged connecting rod. The 59″ flex drive straight shaft is ideal for the toughest applications, and the engine vibration reduction mount and padded handles offer superior comfort during operation. Other features include Pro-Fire® electronic ignition, extra-heavy chrome plating for durability, a see-through fuel tank, semi-auto cutting head, and 4-layer cable drive shaft. For added versatility, use the optional 8″ brush blade and conversion kit (each sold separately) for heavy duty cutting jobs. Lifetime warranty on cable drive and ignition module.

Engine displacement: 25.4 cc. **Carburetor:** diaphragm with purge pump. **Arbor size:** OPT/20 mm. **Fuel capacity:** 19.6 fl. oz. **Shaft length:** 59″. **Cutting swath:** 17″. **Nylon line:** 0.095 Cross-Fire®. **Dry weight (without cutting head):** 11.9 lbs.

Echo Model SRM-266 String Trimmer	O R10	20 lbs.	**80150**	**$331.25**
Universal Blade Conversion Kit		3 lbs.	**80152**	**$61.25**
8″ Brush Blade		1 lb.	**80153**	**$22.95**
Bouton "Fog-Free" Chemical Splash Goggle		4 oz.	**23334**	**$5.50**
			12+	**$4.75**
			24+	**$4.25**

Echo® 42.7cc Brush Cutter

8070

Model SRM-410U

This top-of-the-line brush cutter provides maximum power thanks to its 42.7 cc Power Boost Tornado™ engine. Other features include a spark-arresting low-tone muffler for quiet operation, vibration-reducing mounting, offset U-handle with throttle control, a 60.2″ heavy-duty steel shaft, a debris shield with integrated cut-off knife, a heavy-duty gear case with sealed bearings, an Echomatic Pro™ trimmer head, a centrifugal clutch to prevent the brush cutter head from spinning during starting and idling, and a 33.8 oz. see-through fuel tank. A 10″ brush blade and metal shield are included.

Echo 42.7cc Brush Cutter	O R10	26 lbs.	**80148**	**$620.00**
Bouton "Fog-Free" Chemical Splash Goggle		4 oz.	**23334**	**$5.50**
			12+	**$4.75**
			24+	**$4.25**

Oregon PowerNow 40V MAX Cordless Hedge Trimmer

4765

This lithium ion battery operated hedge trimmer offers high power for fast cutting, long run time, premium cell technology, constant no-fade power, and it holds a charge in storage for months! Other advantages include freedom from cords, no gas-oil mixing, no pull cords, no warm-up, no emissions, and it is 4 times quieter than a gas trimmer. Ergonomically engineered to be light weight and balanced, it has large comfortable handles, dual action design for low vibration, variable speed throttle, and the 24″ blade has laser-cut precision cutting blades for up to 3/4″ cutting capacity.

Blade Length: 24″. **Blades:** Laser-cut, dual reciprocating. **Max Cutting Speed:** 2750 strokes per minute. **Capacity:** up to 3/4″ branch. **Sound Level:** 74 dB. **Throttle:** Variable speed. **Weight:** 8.8 lbs. with 1.25 Ah Battery Pack; 9.8 lbs. with 2.4 Ah Battery Pack.

Hedge Trimmer Kit with 1.25 Ah Battery Pack	16 lbs.	**80178**	**$329.00**
Hedge Trimmer Kit with 2.4 Ah Battery Pack	17 lbs.	**80179**	**$399.00**
Hedge Trimmer (Tool Only)	12 lbs.	**80177**	**$179.00**

O Oversize. Ships UPS 30 lb. rate.
X Oversize. Ships UPS 70 lb. rate.
A Extra Charge if Shipped by Air.
R10 Restricted. Cannot be sold in CA.

OREGON

Oregon PowerNow 40V MAX Cordless Trimmer/Edger

4766

The instant start of this lithium ion battery operated trimmer/edger means no more cords, no gas-oil mixing, no warm-up, and no emissions! Plus, the battery pack offers long run time, premium cell technology, constant no-fade power, and it holds a charge in storage for months! The battery pack holds a charge in storage for months. Dual lines ensure efficient cutting, and an innovative grass shroud prevents long grass from winding around the drive shaft. Ergonomically engineered to be lightweight and balanced, it has large comfortable handles and variable speed throttle which increases control and run time. The Advanced Platinum Gatorline™ is resistant to cracking and breaking. Conversion from trimmer to edger is quick easy. Edger also has a flip down guide for precise edging.

Model ST250

Trimmer Line: dual 0.080″ Platinum Gatorline. **Trimmer Head:** Oregon® Swift Load. **Line Advancement:** Bump feed. **No Load Cutting Speed:** 7000 RPM. **Throttle:** Variable speed. **Weight:** 9.4 lbs. with 2.4 Ah Battery Pack.

Model ST250 Trimmer/Edger Kit with 2.4 Ah Battery Pack	O	17 lbs.	**80185**	**$249.00**
Model ST250 Trimmer/Edger (Tool Only)	O	12 lbs.	**80184**	**$149.95**
Oregon PowerNow 40V MAX Replacement Swift Load Trimmer Head with Line		9 oz.	**80183**	**$23.00**

New! Model ST275

Trimmer Line: dual 0.080″ Platinum Gatorline. **Trimmer Head:** Oregon® Quick Load. **Line Advancement:** Bump feed. **No Load Cutting Speed:** 6250 RPM. **Throttle:** Variable speed. **Weight:** 9.4 lbs. with 2.4 Ah or 4.0 Ah Battery Pack.

Model ST275 Trimmer/Edger Kit with 2.4 Ah Battery Pack	O X	17 lbs.	**80160**	**$299.00**
Model ST275 Trimmer/Edger Kit with 4.0 Ah Battery Pack	A O X	17 lbs.	**80161**	**$349.00**
Model ST275 Trimmer/Edger (Tool Only)	O X	12 lbs.	**80162**	**$179.00**

Oregon PowerNow Battery Packs and Chargers

4765, 4766

Oregon PowerNow 40V MAX 1.25 Ah Battery Pack, Features 10 individual lithium ion cells.	2 lbs.	**80171**	**$99.00**
Oregon PowerNow 40V MAX 2.4 Ah Battery Pack, Features 20 individual lithium ion cells.	3 lbs.	**80172**	**$149.00**
New! Oregon PowerNow 40V MAX 4.0 Ah Battery Pack, The highest capacity battery available for the Oregon Cordless Tool System. Offers three times the run time of the 1.25 Ah Battery Pack for maximum endurance. A	3 lbs.	**80166**	**$199.00**
Oregon Model C600 Battery Charger, Charge Time: approx. 210 minutes for a completely discharged 4.0 Ah Battery Pack; approx. 120 minutes for a completely discharged 2.4 Ah Battery Pack; approx. 60 minutes for a completely discharged 1.25 Ah Battery Pack.	2 lbs.	**80173**	**$59.00**
Oregon Model C750 Rapid Battery Charger, Charge Time: approx. 60 minutes for a completely discharged 4.0 Ah Battery Pack; approx. 30 minutes for a completely discharged 2.4 Ah Battery Pack; approx. 30 minutes for a completely discharged 1.25 Ah Battery Pack.	3 lbs.	**80180**	**$99.00**

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W.E. Chapps Arm Chapps™
4606

Arm Chapps wrap completely around your forearms to provide protection from wrist to elbow. Perfect for use during arborist work, landscape maintenance, and general cleanup. Hook-and-loop fasteners allow for a secure, fully adjustable fit. Constructed of heavyweight cotton. Measure from wrist to elbow for length and around your arm for correct width size. Green.

Regular, 10.25″L x 14.75″W	4 oz.	**23082**	**$16.95**
Large, 12″L x 18.5″W	5 oz.	**23083**	**$19.95**

W.E. Chapps Hedge Trimmer Chapps™
4607

These rugged Hedge Trimmer Chapps protect the thigh, knee, and groin area. Tough, flexible thigh panels ensure superior protection, and the open back and shorter length provide maximum coolness. The waterproof exterior shell resists abrasions, tears, and snags, and the interior cotton lining increases comfort. One-piece design with quick-release plastic belt buckle. Elastic straps and hook-and-loop fasteners allow for a fully adjustable fit around your legs. One size fits all. Green.

Hedge Trimmer Chapps	2 lbs.	**23085**	**$99.95**

String Trimmer Chapps®
3600

Provide superb leg protection while trimming!

These durable, 14 oz. cotton chaps protect your legs from wet grass and flying debris when using string trimmers. Can also be worn when walking through tall grass or briar. Attach just above the knee with adjustable Velcro® strips. Available in two lengths. Machine washable. Green.

24″W x 20.5″L	15 oz.	**23398**	**$42.75**
25″W x 25.5″L	1 lb.	**23399**	**$44.75**

W.E. Chapps Strap Chapps™
7454

Heavy duty canvas protects lower legs from trimming and mowing debris.

Protect the front and sides of the leg from the knee down to and including the top of the foot. Designed to keep thrown objects from getting inside your shoes. Patented height system allows each chapp to easily adjust to different leg lengths. Made of cool yet durable, heavyweight cotton. One size fits all.

Strap Chapps, Dark Green	11 oz.	**23443**	**$37.95**
Strap Chapps, Orange	12 oz.	**23449**	**$37.95**

Edgit String Trimmer Attachment
7459

Works as a trimming and edging guide for straight shaft trimmers. Indicates where the trimmer's string is cutting and holds the trimmer's spinning string in the groove. Allows user to produce perfect vertical edges when edging, or when trimming, it stands the grass up as it is being cut while also helping the user hold the trimmer level.

EDGIT for Echo String Trimmers	2 lbs.	**80105**	**$61.50**
EDGIT for Stihl String Trimmers	2 lbs.	**80106**	**$72.25**

OREGON

Oregon® SuperTwist® Magnum Gatorline™
7711

0.095 Gauge Premium Trimmer Line

Engineered, co-extruded lines incorporate a high-strength inner core with a weld-resistant outer layer for long-wearing characteristics.

Twisted-pair design reduces noise levels when compared with traditional round nylon lines. Less resistance for improved cutting efficiency, reduced vibration, and reduced engine drag.

SuperTwist®, 0.095 gauge - 1 lb. Donut	1 lb.	**13348**	**$14.50**
SuperTwist®, 0.095 gauge - 3 lb. Spool	3 lbs.	**13351**	**$45.25**

OREGON

New! Oregon® SuperTwist® Platinum Gatorline™
4811

With a tough, armored exterior, Platinum Gatorline is more resistant to breakage than standard trimmer line. Features a highly flexible co-polymer core that provides superior durability. Consistent line diameter. Engineered to resist welding up to 498°F.

.080 Gauge, 1 lb. Donut	1 lb.	**13352**	**$17.50**
.080 Gauge, 3 lb. Spool	3 lbs.	**13353**	**$52.25**
.095 Gauge, 1 lb. Donut	1 lb.	**13354**	**$15.50**
.095 Gauge, 3 lb. Spool	3 lbs.	**13355**	**$44.75**

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GERBER

Gerber® Gator Machetes
8401

These double-sided machetes feature a fine edge blade on one side and a high performance saw blade on the other. The rubber grip allows ergonomic control while using either side. Supplied with a riveted, nylon sheath for safe, durable transport.

Gerber Gator Machete Jr.

Features an 11″ fine edge blade on one side and an 11″ high performance saw blade on the other.

Overall length: 19″.

Gerber Gator Machete Jr., 11″ Blade	1 lb.	**33665**	**$19.95**
	3+		**$17.95**

Gerber Gator Machete

Features a 15″ fine edge blade on one side and a 15″ high performance saw blade on the other.

Overall length: 25.7″.

Gerber Gator Machete, 15″ Blade	2 lbs.	**33664**	**$20.95**
	3+		**$18.95**

GERBER

Gerber® Brush Thinner
3839

Perfect for clearing brush and tree limbs! The forged carbon steel blade is resistant to multiple impacts and has a Teflon® coating to reduce friction, minimize cutting effort, and increase efficiency. The lightweight handle is constructed of reinforced polyamide composite for superior strength. Black ballistic nylon sheath included.

Blade length: 8.75″. **Overall length:** 19.75″.

Gerber Brush Thinner	2 lbs.	**33025**	**$39.50**
	3+		**$37.50**

Ontario Sawback Machetes
4749

Made in USA

These rugged sawback machetes feature super sharp teeth on the spine. Blade is constructed of 1095 carbon steel with a zinc phosphate finish. Molded plastic handle is shatterproof and features steel compression rivets. One-year limited warranty from the manufacturer. Made in the U.S.A.

Model	Overall Length	Blade Length	Blade Thick	Machete Weight	Machete SN	Machete $	Sheath Weight	Sheath SN	Sheath $
CT 2	18″	12″	0.125″	1 lb.	**33620**	**$22.50**	5 oz.	**33621***	**$10.25**
1-18SBK	24″	18″	0.12″	2 lbs.	**33624**	**$24.95**	7 oz.	**33622***	**$10.95**
		18″					10 oz.	**33630**	**$22.50**

*Nylon

Seymour Machetes
1764

Tempered steel blade with durable cutting edge. Polypropylene handle attached with brass rivets.

Blade Length	Machete Weight	Machete SN	Machete $	Leather Sheath Weight	Leather Sheath SN	Leather Sheath $
18″	1 lb.	**33682**	**$10.40**	10 oz.	**33630**	**$22.50**
22″	1 lb.	**33683**	**$11.25**	11 oz.	**33650**	**$26.95**
24″	1 lb.	**33684**	**$11.75**	13 oz.	**33670**	**$27.95**

OKC ONTARIO KNIFE COMPANY

Ontario Military-Issue Machetes
1760

Made in USA

Available in 12″, 18″, and 22″ blade lengths. Quality, military-issue machetes feature shatterproof handle. Constructed of 0.125″ thick carbon steel treated with black oxide coating. Handle made of flame-resistant thermalset plastic with three steel compression rivets and thong hole. Made in the U.S.A.

Ontario Military-Issue Machetes

Available in 18″ and 22″ blade lengths. Quality, military-issue machetes feature shatterproof handle. Constructed of 0.125″ thick carbon steel treated with black oxide coating. Handle made of flame-resistant thermalset plastic with three steel compression rivets and thong hole. Available with or without hand guard. Made in the U.S.A.

Ontario Military-Issue Machetes with Hand Guard

These machetes also feature a hand guard for extra protection from thorns, brambles, etc.

Blade	Military-Issue Machete Overall	Weight	SN	$	Machete with Protective Handle Overall	Weight	Black	Orange	$	Leather Sheath Weight	SN	$	Nylon Sheath Weight	SN	$
12″					17-1/2″	2 lbs.	**33616**	**33617**	**$20.95**				5 oz.	**33621**	**$10.25**
18″	23-1/4″	1 lb.	**33610**	**$23.25**	23-1/2″	2 lbs.	**33613**		**$24.95**	10 oz.	**33630**	**$22.50**	7 oz.	**33622**	**$10.95**
18″					23-1/2″	2 lbs.		**33618**	**$24.75**	10 oz.	**33630**	**$22.50**	7 oz.	**33622**	**$10.95**
22″	27-1/4″	2 lbs.	**33609**	**$23.50**	27-1/2″	2 lbs.	**33614**	**33619**	**$27.25**	11 oz.	**33650**	**$26.95**	8 oz.	**33623**	**$11.25**

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GERBER

New! Gerber Gator Bolo Machete
4804

One part hedge trimmer, one part axe, 100% business.

A traditional jungle tool updated for modern utility. The stout, burly blade has a distinctive bulge near the front for added power in the swing. The 15.5-inch blade is made of corrosion-resistant 1050 Steel with full tang construction for durability. Other features include an ergonomic Gator Grip handle for a secure, tactile grip, a wrist lanyard, and a rugged nylon sheath to keep the blade from getting banged up when not in use. Sheath has a belt loop and D-ring attachments for carrying on your hip or lashing to a pack. Backed by Gerber's lifetime warranty.

Gerber Gator Bolo Machete	2 lbs.	**33626**	**$34.50**
		3+	**$31.95**

GERBER

New! Gerber Gator Kukri Machete
4805

Designed for utility work, this machete includes an ergonomic handle shape, slip-proof grip, and hefty full tang construction to stand up to repeated heavy use. The hefty 12-inch blade is made of corrosion-resistant 1050 Steel and has a unique curved shape that features a pointed tip for poking and piercing, a wide midsection for chopping wood, and a narrow area above the handle for wood carving or whittling of kindling. The ergonomic Gator Grip handle sits comfortably in your hand, offering a secure, tactile grip for cutting in wet or dry conditions. Includes a wrist lanyard and a rugged nylon sheath with a belt loop and D-ring attachments for carrying on your hip or lashing to a pack. Backed by Gerber's Lifetime Warranty.

Gerber Gator Kukri Machete	2 lbs.	**33627**	**$38.75**
		3+	**$35.95**

GERBER

Gerber® Parang™ Machete
7589

With a heavy duty angled blade, this machete is ideal for clearing brush or limbs. The machete features durable full tang construction and a high carbon steel blade that resists corrosion and is easy to sharpen. An ergonomic textured rubber grip reduces slippage and maximizes comfort while you work. The lanyard cord increases grip security even more. Nylon sheath included.

Overall Length: 19.5″. **Blade Length:** 13.5″.

Gerber Parang Machete	2 lbs.	**33615**	**$34.95**

GERBER

Gerber® Gator® Machete Pro
7588

This premium, versatile machete can be used as an axe, machete, brush thinner, or knife. The superior steel blade ensures excellent strength, corrosion resistance, and ease of sharpening. The Gator Grip handle provides a sure, comfortable grip, and the lanyard keeps your hand from slipping during use. Nylon sheath and sharpening stone included.

Overall Length: 16.5″. **Blade Length:** 10.5″.

Gerber Gator Machete Pro	2 lbs.	**94082**	**$41.95**

KA-BAR Knives

KA-BAR Cutlass Machete
7502

Perfect for chopping down weeds, clearing a camp site or cutting small limbs and tree branches. Blade is constructed of 1085 Carbon Steel. Handle is made of Kraton G. Leather/Cordura sheath included.

Blade Length: 11″. **Overall Length:** 16-1/2″.

Cutlass Machete	2 lbs.	**33603**	**$62.95**
		3+	**$59.75**

KA-BAR Knives

KA-BAR Grass Machete
7784

Ideal for chopping down heavy grass and weeds when clearing camp sites, trails, etc. Cordura® Case included.

Overall Length: 19-1/2″. **Blade:** 14″.

KA-BAR Grass Machete	2 lbs.	**33600**	**$67.95**
		3+	**$62.95**

Ontario SP8 Survival Machete
6135

Made in USA

Features double milled sawteeth for cutting and a flat end for prying. The quarter inch thick, 10″ blade is constructed of epoxy powder-coated, carbon steel. Comfortable handle made of soft Kraton® polymer. Lanyard included. Overall length is 15-1/8″. Durable, side loading sheath constructed of Cordura® nylon and leather wrap for extra strength included. Sheath features leather strap with swivel ring for attaching to belt and tie down cord for strapping bottom of sheath to leg. Made in the U.S.A.

Ontario SP8 Survival Machete	2 lbs.	**33611**	**$59.50**

OKC ONTARIO KNIFE COMPANY

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Silky Yoki Chopper
7946

The ultimate tool for multiple vegetation types! The YOKI is versatile enough to reduce vines, limbs and small logs to a more manageable or productive size. Use with either one or two hands. Blade can be re-sharpened. Includes a custom-fitted carrying case with a matching hole-hanger.

Blade Length: 10.63″ (270 mm). **Weight:** 1.17 lbs.; 1.5 lbs. with Sheath. **Metal:** Alloy Steel. **Blade Thickness:** 2.75 mm.

Silky Yoki Chopper	2 lbs.	**33035**	**$93.95**

Silky Ono Chopper
7945

Ideal for clearing trails or cutting up small timber. Resharpen the blade as needed. Custom-fitted carrying case with a matching hole-hanger is standard equipment.

Blade Length: 4.7″ (120 mm). **Weight:** 1.76 lbs.; 2.09 lbs. with Sheath. **Metal:** Alloy Steel. **Blade Thickness:** 5.7 mm.

Silky Ono Chopper	2 lbs.	**33036**	**$106.95**

Ontario SP10 Marine Raider Bowie Knife
7178

Made in USA

Features a 0.25″ thick epoxy powder-coated 1095 carbon steel blade that is 9.75″ long. Comfortable Kraton® handle. Lanyard included. Overall length is 15.125″. Includes leather/Cordura® sheath with tie-down cord. Made in the U.S.A.

Ontario SP10 Marine Raider Bowie Knife	2 lbs.	**33608**	**$64.95**

Woodman's Pal Axe
6129

Made in USA

Offers superior productivity in all cutting and clearing tasks. Available in two lengths, a 22″L Long Reach model with hardwood handle or the 16″L model with your choice of nonslip leather grip with thumb and hand guards or hardwood handle. Each includes a Cordura® sheath and sharpening stone. Made in U.S.A.

16″L Hardwood Grip Handle	2 lbs.	**94098**	**$84.95**
16″L Leather Grip Handle	2 lbs.	**94096**	**$96.95**
22″L Hardwood Grip Handle	1 lb.	**94100**	**$86.95**

Woodman's Pal Brush Axe
6129

Manufacturer's Warranty Lifetime

Thanks to the rugged design and construction of this heavy-duty brush axe, you can slice through brush, vegetation and saplings up to 1-1/2″ in diameter with a single stroke. The sturdy 8″ blade is 1/8″ thick and made from 1075 High Carbon Steel then tempered to Rockwell C-47. The rugged hickory wood handle is 19″L, making the overall tool 27″L for maximum swinging power and momentum. Hand-crafted in the USA using all domestic materials and backed by a lifetime guarantee from the manufacturer! Cordura® nylon sheath with belt loop is included.

19″L Hickory Wood Handle	2 lbs.	**94099**	**$96.95**

Swedish Safety Brush Axe
1763

Well-balanced brush axe with deer-foot style hickory handle and razor sharp blade. Replaceable blade.

Overall length: 27″. **Blade cutting edge:** 5-1/2″.

Swedish Safety Brush Axe	3 lbs.	**33045**	**$47.50**
		6+	**$44.25**
Replacement Handle	14 oz.	**33095**	**$10.75**
Replacement Blade	3 oz.	**33050**	**$12.25**
Leather Holster	6 oz.	**33073**	**$14.10**

Nicholson®

Nicholson® Mill Bastard File
3665

Ideal for fast sharpening! Features an ergonomic handle for a secure, comfortable grip.

8″ Mill Bastard File	5 oz.	**33986**	**$10.95**
12″ Mill Bastard File	13 oz.	**33987**	**$13.95**

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Council Kaiser Bank Blades
1768

Heavy steel blades, sharpened on both sides, and long sturdy hickory handles put more cutting power behind each swing. 40″ Long handle models keep you away from briar "whiplash."

12″ Blade fastened with 2 bolts/ 30″ Straight Hickory Handle	3 lbs.	**33769**	**$29.50**
14″ Blade fastened with 3 bolts/ 36″ Straight Hickory Handle	4 lbs.	**33770**	**$35.25**
16″ Blade fastened with 3 bolts/ 40″ Straight Hickory Handle	5 lbs.	**33262**	**$44.50**
16″ Blade fastened with 4 bolts/ 40″ Straight Hickory Handle	4 lbs.	**33760**	**$51.25**
30″ Replacement Handle	1 lb.	**33240**	**$13.75**
36″ Replacement Handle	2 lbs.	**33243**	**$13.75**
40″ Replacement Handle for 33262	2 lbs.	**33232**	**$16.75**
40″ Replacement Handle for 33760	2 lbs.	**33761**	**$15.50**

Bush Hooks
1770

For clearing work too heavy for a scythe and not suited for an axe. 12″ Hook blades cut easily on the "pull" stroke. 36″ Hickory handles.

Council Single Edge, Eye and Strap, Curved Handle Bush Hook	5 lbs.	**33870**	**$49.25**
36″ Replacement Handle	2 lbs.	**75002**	**$15.25**
Council Double Edge, Axe Eye Type, Straight Handle Bush Hook	5 lbs.	**33810**	**$54.95**
36″ Replacement Hickory Handle	1 lb.	**33875**	**$11.75**

True Temper® Deluxe Weed Cutter
8491

The deep serrated, double edge blade of this deluxe weed cutter measures 14″L x 2-1/2″W. Other features include heavy-duty steel straps and a 30″L hardwood handle.

True Temper Weed Cutter	2 lbs.	**33170**	**$24.25**
		3+	**$21.50**

Brush Cutter Sheaths
1767

Made of black rubberized belting with leather strap which snaps.

Sheath for 16″ Bank Blades	1 lb.	**27276**	**$21.95**
Sheath for 14″ Bank Blades	1 lb.	**27249**	**$19.95**

Sankey Standard Foot Guard
3579

Aluminum alloy 0.081″ thick. Non-slip rubber tread. One pair.

5.5″ Wide, for large feet	15 oz.	**23008**	**$46.75**

Sankey Steel Toe Guard
3573

Withstand impact of 75 foot-pounds. 16 Gauge (0.059″) thick carbon steel. 4-1/2″ Wide. One pair.

Standard Toe Guard	11 oz.	**23337**	**$28.95**

Sankey Shin-Instep Guard
3576

Protects the shin and foot. Does not protect knee. Adjustable leg straps with snap fasteners. High-impact polyethylene with foam rubber padding. Shin part is 12″ long, 20″ overall.

One pair	1 lb.	**23031**	**$101.95**

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Work Sharp® Knife and Tool Sharpener
4717

Provides professional-grade results for all of your sharpening needs!

Designed to sharpen all types of knives as well as axes, hatchets, mower blades, garden shears, shovels, scissors, and any other tool with a blade! This sharpener uses flexible, abrasive belts (coarse, medium, and fine grit belts, one of each included) and precision angle sharpening guides to ensure a razor sharp edge and a proper angle every time. Two guides are included: a 50° guide for hunting and outdoor knives (25° per bevel) and a 40° guide for thinner blades and kitchen knives (20° per bevel). Instructional DVD and user's guide also included. One-year manufacturer's limited warranty. Made in USA.

Work Sharp Knife and Tool Sharpener 3 lbs.	Ⓡ	**35680**	**$79.95**
Belt Accessory Kit Includes two coarse grit belts, two medium grit belts, and two fine grit belts. 2 oz.	Ⓡ	**35686**	**$9.95**

EdgeCraft® M42 Sportsman™ Sharpener page 707

Tree Tanglefoot Pest Barrier
1967

Non-drying, sticky compound traps and/or repels insects. Apply as a band around tree trunks to prevent climbing-crawling insects from reaching leaves, buds, or fruit. Will not wash off in rain. Contains no pesticides or poisons.

5 lb. Tub 5 lbs.	**79099**	**$38.25**
	4+	**$35.75**

Ⓡ Cannot be sold internationally

Barracudasaw™ 16.5″ Christmas Tree Shearing Knife
4615

The stainless steel shearing blade of this knife measures 16-1/2″ long. Features an 11″ long American Walnut handle for an overall length of 27-1/2″.

Barracudasaw 16.5″ Christmas Tree Shearing Knife	8 oz.	**81124**	**$31.25**
		3+	**$29.75**

Brushking® Christmas Tree Shearing Knives
1639

Minimize wrist and forearm fatigue and allow for heavy weight shearing.

1″ x 16″ Blades of high quality German stainless steel and available in razor (plain) or serrated edge. Handles are high strength, lightweight wood and are available in lengths of 5-1/2″ and 10″. Due to varying conditions and the severe stress under which these knives are used, we cannot guarantee them against breakage.

Serrated 16″ Blade, 10″ handle	7 oz.	**81101**	**$64.50**
		3+	**$61.50**
Razor 16″ Blade, 10″ handle	7 oz.	**81100**	**$61.25**
		3+	**$58.25**
Razor 16″ Blade, 5-1/2″ handle	5 oz.	**81105**	**$56.25**
		3+	**$53.75**

Sheath for Christmas Tree Knives
1638

Top-quality cowhide sheath features heavy-duty stitching and riveting at stress points. Fits the Barracudasaw and Brushking® Christmas tree shearing knives. Fits any size belt.

Sheath for Christmas Tree Knives	7 oz.	**81117**	**$16.50**

Super Greenzit Christmas Tree Colorant
1640

Helps restore trees to rich, natural blue-green color!

2-1/2 Gallon jug makes 50 to 75 gallons, treats approximately 300 trees. Sprays easily with backpack or handheld sprayers.

Super Greenzit Christmas Tree Colorant, 2-1/2 Gallon Jug 24 lbs.	**13284**	**$78.50**
	2+	**$75.25**

Clear Plastic Pollination Bags
6729

Clear, flexible polyethylene bags are 4 mils thick, 10″ wide and 18″ long. Open on one end only, moisture tight. Bundle of 100.

Clear Plastic Pollination Bags — Bundle of 100	5 lbs.	**79147**	**$22.95**
		5+	**$18.95**
		10+	**$17.25**
8″ Twist-Ems Twist Ties, Bundle of 1,000	1 lb.	**79126**	**$6.25**
		10+	**$5.40**

Aluminum Tags with Cardboard Backing page 28

Protective Chaps page 119

Kevlar® Gloves
3522

Made of the same unique Kevlar® material found in chainsaw chaps.

Provide superior resistance to cutting edges. Ideal when handling sharp objects such as knives, saws or barrels with sharp inner edges. **Note:** Gloves will resist cuts and abrasions, but will not resist direct punctures.

Medium	2 oz.	**90919**	**$8.30**
		12+	**$6.90**
		24+	**$6.10**
Large	2 oz.	**90904**	**$8.30**
		12+	**$6.90**
		24+	**$6.10**

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Victorinox Budding, Grafting, and Pruning Knives

Victorinox Model V-9040 Budding Knife
1811

Curved 1-3/4″ folding blade. Bark lifter, 1/2″ serrated thumb support. 4″ Brass lined black handle.

Budding Knife – For fruit tree budding	3 oz.	**81253**	**$23.95**
		6+	**$21.50**

Victorinox Model V-9020 Budding Knife
1810

Straight, folding blade and bark lifter. 2-1/4″ Blade. 3-1/2″ Brass lined black handle.

Model V-9020 – Rose budding knife	3 oz.	**81251**	**$22.50**
		6+	**$20.25**

Victorinox Model V-9110 Budding Knife
1812

Ideal for use on small understock. 2″ Folding blade, 1/2″ serrated thumb support. 3-3/4″ Brass lined black handle. 1-1/4″ Solid brass bark opener.

Model V-9110	3 oz.	**81256**	**$37.50**
		6+	**$33.75**

Victorinox Model V-9050 Grafting Knife
1806

All-purpose knife – small, yet strong and versatile. 2-1/4″ Folding blade. 3-1/2″ Brass lined handle. **Note:** Handle color may vary (red or black).

Model V-9050	3 oz.	**81254**	**$19.50**
		6+	**$17.50**

Victorinox Model V-9300 Pruning Knife
1809

Heavy-duty pruning knife, perfect for de-suckering. Curved, folding blade is 3″ long. 4-1/4″ Brass lined rosewood handle.

Model V-9300	4 oz.	**81258**	**$44.75**

Ty'n Tapegun
1819

Simply by squeezing the handle, this tape gun neatly wraps a tie tape around the stem, then cuts and staples tape securely. Order tape rolls (79312) and staples (79304) separately.

Ty'n Tapegun	2 lbs.	**79305**	**$47.50**
Box of 4,800 Staples	4 oz.	**79304**	**$4.90**
Replacement Blades, pack of 3	1 oz.	**79315**	**$12.95**
For small, medium shrubs – 6-gauge, 1/2″ x 215′ Roll	5 oz.	**79312**	**$1.75**
		12+	**$1.40**

Treekote Tree Wound Dressing
1968

Pruning and grafting compound made from a special processed black asphalt emulsion. Use as a paste or add water for brush application. Excellent filler for cavities in tree surgery.

One Gallon Pail	9 lbs.	**79104**	**$31.25**
		4+	**$29.25**
New! One Quart Container	2 lbs.	**79103**	**$11.75**

Quart container includes brush attached to cap.

Treekote Aerosol Tree Wound Dressing
1963

Apply to freshly pruned areas to protect from decay, insects, and fungi. Withstands all types of weather. Convenient aerosol spray. **Net weight:** 12 ounces.

Treekote Aerosol Wound Dressing (A)	1 lb.	**79004**	**$9.25**
		12+	**$8.25**
Multi-Purpose Holder	3 oz.	**27295**	**$7.50**

(A) Extra Charge if Shipped by Air. See Shipping Information for details.

Trowbridge's Grafting Wax
1816

Seals grafts and prevents stem tissues from drying out. Helps reduce the possibility of disease organisms gaining access to interior of stem.

Trowbridge's Grafting Wax, 1 lb. Cake 1 lb.		**79031**	**$11.75**

Red Rubber Budding Strips
1814

Compounded rubber for budding and grafting. Provides even pressure over entire bound area. Ozone-degradable, deteriorates in two to three weeks.

20 Gauge x 3/8″ x 8″ – Approx. 450 pieces 1 lb.		**79017**	**$19.90**
		5+	**$18.35**

Plastic Tie & Grafting Tape
1804

Top grade outdoor vinyl. Excellent for budding and grafting. Stretches with plant growth, does not girdle.

0.004″ x 1/2″ x 300′ Roll 5 oz.		**79311**	**$1.75**
		12+	**$1.40**
For small, medium shrubs – 6-gauge, 1/2″ x 215′ Roll 5 oz.		**79312**	**$1.75**
		12+	**$1.40**
For heavy plants, medium trees – 8-gauge, 1/2″ x 150′ Roll 5 oz.		**79313**	**$1.75**
		12+	**$1.40**

Note: Only 79312 works with Ty'n Tapegun.

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Model 2

Best Seller!

Model 4

Model 5

Model 6

Model 7

FELCO

Felco® Hand Pruners

1786

Model 2

A standard in the industry. Heavy-duty, lightweight pruner features forged, light metal alloy, plastic-coated handles, rubber cushion stop, 2-1/4″ replaceable blade with sap groove, and wire cutting notch. 8-1/2″ Long. **Cutting Capacity:** 1″.

Felco Hand Pruner, Model 2	11 oz.	**81130**	**$49.95**

Model 4

Forged, light metal alloy throughout. Plastic-coated handles shaped to your hand. Long-lasting pointed and contoured blade with wire cutting notch. Excellent for medium cutting in nurseries and greenhouses. 8-1/2″ Long. **Cutting Capacity:** 1″.

Felco Hand Pruner, Model 4	10 oz.	**81131**	**$47.95**
		3+	**$44.75**

Model 5

An all-steel pruner with plastic-coated handles and easy-to-replace blade. 9″ Long. **Cutting Capacity:** 1″.

Felco Hand Pruner, Model 5	13 oz.	**81218**	**$33.95**
		3+	**$31.50**

Model 6

Short, narrow, tapered blades with sap groove and wire cutting notch are designed to give more powerful cutting stroke. Also features cushion stop and smaller grips. Plastic-coated handles. 8″ Long. **Cutting Capacity:** 3/4″.

Felco Hand Pruner, Model 6	10 oz.	**81219**	**$55.75**
		3+	**$52.25**

Model 7

Lower handle rotates to allow normal movement of your hand, reducing hand fatigue. Ideal for continuous work. Pointed, narrow blades for close pruning feature sap groove and wire cutting notch. Plastic-coated handles. 8-1/2″ Long. **Cutting Capacity:** 1″.

Felco Hand Pruner, Model 7	13 oz.	**81158**	**$76.75**
		3+	**$74.25**

Felco® Pruner Replacement Parts

1789

Replacement Blades

For Models 2, 4	1 oz.	**81243**	**$16.95**
For Model 5	1 oz.	**81244**	**$15.95**
For Model 6	1 oz.	**81245**	**$15.95**
For Models 7, 8	1 oz.	**81246**	**$16.95**
For Model 9	1 oz.	**81247**	**$16.95**
For Model 13	2 oz.	**81176**	**$18.50**

Replacement Springs (per pair)

For Models 2, 4, 7, 8, 9	1 oz.	**81240**	**$5.25**
For Models 5, 13	1 oz.	**81241**	**$5.25**
For Model 6	1 oz.	**81242**	**$5.25**

57387

57385

WEAVER LEATHER

Weaver® Leather Folding Saw Pouch

2726

This top grain steer hide leather pouch features a pliable, 3-1/4″ x 7″ soft brown oil tanned front and a 12-1/4″ back. Use the 2″ clip on the back for quick attachment to a belt or the 2″ slots to slide the belt through instead. The pouch is lockstitched and riveted for superior strength and features nickel plated hardware. Accommodates saws measuring 7″ to 10″ (folded length).

Leather Folding Saw Pouch	5 oz.	**57387**	**$12.75**
Leather Folding Saw Pouch with Pruner Pouch	7 oz.	**57385**	**$19.75**

Leather Sheath/Holster

6728

Protect your pruners and keep them handy with this versatile holster!

Clip it onto your belt or pocket or slip your belt through the 2″ slots.

Leather Pruner Holster	4 oz.	**57386**	**$10.95**

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Felco® Hand Pruners
1786

Model 8

Precision-cut blade design. Cutting blade and anvil blade positioned to be an extension of your forearm for better leverage. Plastic-coated handles. 8-1/2″ Long. **Cutting Capacity:** 1″.

Felco Hand Pruner, Model 8	11 oz.	**81220**	**$59.95**
		3+	**$56.25**

Model 9

Designed for left-handed operation. Cutting blade and anvil blade positioned to be an extension of your forearm for better leverage. Plastic-coated handles. 8-1/2″ Long. **Cutting Capacity:** 1″.

Felco Hand Pruner, Model 9	12 oz.	**81221**	**$59.95**
		3+	**$56.25**

Model 13

Extended length lower handle for two-handed cutting of thick branches up to 1-1/4″ in diameter. **Features include:** rubber shock-absorbers, plastic-coated, forged aluminum handles, center nut for blade adjustment, anvil blade clearance for a clean, accurate cut; wire-cutting notch; sap groove; and an adjustment key. 10-1/2″ long. **Cutting Capacity:** 1-1/4″.

Felco Hand Pruner, Model 13	13 oz.	**81175**	**$72.95**
		3+	**$70.75**

Model 31 Classic

Anvil model. Comfortable, light, sturdy handles made of forged aluminum with a lifetime guarantee. Blade made of high-quality hardened steel with a screw-mounted adjustable brass anvil. Clean, precise cut. 8.3″ Long. **Cutting Capacity:** 1″.

Felco Hand Pruner, Model 31 Classic	9 oz.	**81132**	**$51.25**
		3+	**$49.50**

Snap-Cut® Model 19T Hand Pruner
1796

Self-cleaning, 2″ Teflon-S® coated blade. Brass anvil. Vinyl cushioned hand grips with fingerstop. **Total length:** 8″. **Cutting capacity:** 3/4″.

Model 19T	12 oz.	**79193**	**$14.25**
		6+	**$13.25**

Conventional Pruning Shears
1788

An affordable alternative to expensive shears!

Lightweight, hardened steel shears feature hollow-ground blade, and plastic covered contoured handles. **Total Length:** 8″. **Cutting Capacity:** 1/2″.

Conventional Pruning Shears	10 oz.	**81145**	**$9.75**
		12+	**$7.50**

Model 8

Model 9

Model 13

Model 31 Classic

Model 19T

Conventional Pruning Shears

Tree Bandage® Wound Dressing
pages 235 & 239

Felco® Leather Holster
1787

Protects clothing while providing easy access on the job. Attaches quickly to belt or pocket. Designed to fit all Felco pruning shears on this page. 6″ Long.

Felco Leather Holster 3 oz.	**81259**	**$12.50**

ARS Blade Cleaner
page 231

Felco® Pruner Grease
7811

Helps reduce wear and tear of moving parts. Water repellant and non-toxic. 1 oz. Tube.

Felco Pruner Grease 3 oz.	**81289**	**$13.50**

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Model BP3180

Model BP3160

Model FS4350

Model BP3130

Model BP3640

Model BP6250

Model RP 3230

Corona® Hand Pruners
1795

Model BP3180
Heat-treated, 2-1/2″ steel blades with sap groove and wire cutting notch. Narrow, recessed hook. Open-end handles can't pinch. Vinyl handle grips, drop-forged construction. **Total length:** 8-3/4″. **Cutting capacity:** 1″.

Corona Model BP3180 Hand Pruner	15 oz.	**81200**	**$26.95**
		3+	**$24.75**

Model BP3160
2-1/2″ Drop-forged, heat-treated blade with sap groove. Hook is ground slant to prevent branch from slipping. Vinyl handle grips. **Total length:** 8″. **Cutting capacity:** 3/4″.

Corona Model BP3160 Hand Pruner	11 oz.	**81192**	**$22.95**
		3+	**$21.25**

Model FS4350
2″ Forged straight blades are ideal for picking flowers and for light tasks in shrubs; also a fine utility shear for household use. Features scissor cutting action. Suitable for right- or left-hand use. Forged steel, vinyl handle grips. **Total length:** 7-3/4″. **Cutting capacity:** 1/4″.

Corona Model FS4350 Hand Pruner	9 oz.	**81181**	**$21.95**
		3+	**$20.25**

Model BP3130
Sized smaller to accommodate smaller hands. 2-1/2″ Resharpenable forged Radial Arc bypass blade, slant-ground narrow profile hook, sap groove, and fully heat-treated, forged Coronium steel alloy construction. Vinyl handle grips. **Total length:** 6-3/4″. **Cutting capacity:** 1/2″.

Corona Model BP3130 Hand Pruner	10 oz.	**81191**	**$21.95**
		3+	**$20.25**

Model BP3640
Forged, high-carbon steel for more strength and durability. Ergonomic angled pruning head for added comfort and reduced hand stress. Forged steel blades are resharpenable for long service life. Contoured handles have a comfortable, non-slip grip. **Total length:** 8″. **Cutting capacity:** 3/4″.

Corona Ergo-Action Bypass Pruner	15 oz.	**81125**	**$18.50**
		3+	**$16.75**

Model BP6250
Lightweight, forged aluminum construction. Easy to replace, high carbon steel blade. Slant-ground, narrow-profile hook with self-cleaning sap groove. Other features include a close tolerance pivot bolt, shock absorbing bumper, wire-cutting notch, easy-to-operate thumb lock, and non-slip grips. **Total length:** 8-1/2″. **Cutting capacity:** 1″.

Corona Model BP6250 Hand Pruner	11 oz.	**81197**	**$36.95**
		3+	**$35.95**

Corona® Ratchet Action Hand Pruner
1793

Ratchet-action multiplies your cutting power!

Features non-stick, coated blade for smooth cutting and easy cleaning, stainless steel rivet construction, and squeeze and release step action. Fits all size hands. Suitable for right- or left-hand use. **Total length:** 8″. **Cutting capacity:** 3/4″.

Model RP 3230	8 oz.	**81107**	**$13.95**
		3+	**$12.50**

Corona® Sharpening Tool
3904

This compact super carbide file is ideal for sharpening all types of blades, features a no-slip grip, and fits easily in your pocket. **Dimensions:** 4-1/2″ x 1/2″.

Corona Sharpening Tool	2 oz.	**81129**	**$9.95**

Corona® Universal Tool Pouch
7415

Constructed of durable Cordura® nylon. Universal design fits hand pruners and folding saws. Easy to carry using metal clip or belt loops. Front pocket for sharpener storage.

Universal Tool Pouch	3 oz.	**57371**	**$9.25**

Leather Sheath/Holster
6728

Protect your pruners and keep them handy!

Clip it onto your belt or pocket or slip your belt through the 2″ slots.

Leather Pruner Holster	4 oz.	**57386**	**$10.95**

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Corona® Long-Reach Pruner
7752

1-1/4″ Cutting capacity

This lightweight, long-reach pruner has an overall length of 62″ and is ideal for pruning high or low, without bending or straining. Head rotates 360°, tilts, and swivels for unlimited cutting positions. Other features include a powerglide comfort grip and an oval end-grip with rubber overmold.

Corona Long-Reach Pruner	X	2 lbs.	**81159**	**$46.25**

Barnel® Ultra Reach® Telescopic Lopper
8345

1-1/2″ Cutting Capacity

Manufacturer's Warranty Limited Lifetime

This telescopic by-pass lopper extends from 6′ to 8′, features ultra lightweight extruded aluminum construction, and comes with a length adjustable shoulder strap for optimum weight distribution. Self-oiling center bolt allows for easy maintenance and lubrication of the cutting head without disassembling. Limited lifetime warranty from the manufacturer on internal workings.

Telescopic Lopper	X	5 lbs.	**81169**	**$119.75**

Barnel® Ultra Reach® Telescopic Pruner
1791

5/8″ Cutting Capacity

Features a center self-oiler, lightweight aluminum construction, a shock absorbing spring mechanism for reducing stress, and a comfortable handgrip with 180° rotating handle for precision cuts and optimum blade positioning. A cut and hold feature with special spring mechanism automatically adjusts for various sized cuts. Unique pruner holding feature after cut is great for fruit pickers and for arborists collecting cuttings for propagation. Pruner cuts up to 5/8″ in diameter while the tri-edge, tiger-tooth pruning saw provides fast, easy pull action and super clean cuts for bigger items.

6′ - 10′ Telescopic Pole Pruner/Pruning Saw	X	3 lbs.	**81160**	**$108.50**
			3+	**$99.50**

Barnel® Telescopic Ratcheting Lopper
7754

2″ Cutting Capacity

Heavy-duty loppers extend from 25-3/4″ to 37-3/4″ and cut up to 2″ in diameter with minimal strength thanks to the ratchet mechanism. Lightweight, aircraft aluminum handles have comfortable cushioned grips. Other features include a positive extension handle locking system; an aluminum die cast anvil; and a high carbon steel, curved blade with protective coating.

Barnel 2″ Telescopic Ratcheting Lopper w/Curved Blade	4 lbs.	**81009**	**$54.25**

Barnel® 32″ Anvil Lopper
7448

2″ Cutting Capacity

The only anvil lopper of its kind! An innovative shock absorber system integrated into the anvil provides cushioned work comfort. Compound action allows for effortless cutting of live and dead branches. Other features include forged Bartanium alloy blade steel and forged aluminum anvil, dual self-oiling center bolts for ease of maintenance, and lightweight, extra-tough extruded aluminum handles with oversize non-slip TPR rubber grips.

32″ Anvil Lopper	3 lbs.	**81010**	**$81.95**
		3+	**$78.25**

More Loppers on next 2 pages!

X Items 60″ or more require an additional handling charge.
A Extra Charge if Shipped by Air. See Shipping Information for details.

Treekote Pruning Tool and Saw Treatment
1968

Use to clean pruning tools and saws before cutting different trees or shrubs to prevent the spread of harmful pathogens that cause diseases such as Oak Wilt and Dutch Elm. Also lubricates cutting surfaces and helps protect against rust and corrosion.

11 oz. Aerosol			
15 oz.	A	**81290**	**$12.75**
		12+	**$12.10**

Felco® 980 Spray
4658

Cleans, lubricates, and protects!

Keeps your pruners, shears, and cutters in excellent working condition! Effectively removes sap and dust. Also cleans, lubricates mechanical parts, and protects against rust. VOC free. 1.89 fl. oz. can.

Felco 980 Spray 8 oz.	**81283**	**$22.50**

Felco® Pruner Grease
7811

Helps reduce wear and tear of moving parts. Water repellant and non-toxic. 1 oz. Tube.

Felco Pruner Grease 3 oz.	**81289**	**$13.50**

ARS Blade Cleaner
7651

Packs incredible cleaning power to keep your tools in superior working condition for years! Ideal for use on pruning saws, loppers, and hand pruners, this liquid cleaner effortlessly removes sticky sap and grimy dirt from blades with just a spray and a wipe. Made of safe ingredients, including mineral enzyme water.

ARS Blade Cleaner 4 oz.	**81250**	**$16.75**

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Corona® Compound Action Bypass Lopper with Extension Handles

7609

1-1/2″ Cutting Capacity

Cuts limbs up to 1-1/2″ diameter. Lightweight yet strong fiberglass handles extend from 21″ to 33″. Four-bar compound linkage triples your cutting power. Features a resharpenable Teflon®-coated high-carbon steel bypass blade, slant ground hook with sap groove, and comfortable cushion grips on the handles.

Corona Model FL 3470 Bypass Lopper 4 lbs.		**79091**	**$30.25**

Corona® 29″ Bypass Lopper

7740

1-1/2″ Cutting Capacity

Features a resharpenable, forged carbon steel bypass blade, self-aligning pivot bolt, and shock stop bumper. Lightweight, high-strength aluminum handles are 29″ long and have non-slip grips.

Corona 29″ Bypass Lopper 2 lbs.		**81102**	**$31.25**

Corona® High Torque Lopper

1782

Up to 2″ Cutting Capacity

Designed for rough jobs. Features rubber shock absorbers. Drop forged with solid stop. High strength, oval-shaped, removable, aluminum handles are easily replaceable. **Total length:** 26″.

Corona High Torque Lopper 3 lbs.		**79085**	**$78.25**
	3+		**$75.75**

Corona® Hi-Performance Orchard Lopping Shears

4332

2″ Cutting Capacity

The unmatched blade design of these loppers dramatically reduces the force to cut. Other features include lightweight, high-strength elliptical aluminum handles; resharpenable, replaceable dual arc bypass blade of fully heat-treated forged steel; forged slant-ground hook with self-cleaning deep sap groove; and large diameter bumper for reducing elbow fatigue. New and improved locking nut eliminates nut-retaining clip.

26″ Long Corona Model AL 8442 2 lbs.		**79055**	**$64.25**
	3+		**$60.25**
32″ Long Corona Model AL 8462 3 lbs.		**79056**	**$65.50**
	3+		**$60.75**

Corona® Heavy-Duty Lopping Shears

1773

3″ Cutting Capacity

Drop-forged alloy steel hook and blade. Energy absorbing bumper unit. 37-1/2″L with ash handles.

Corona Heavy-Duty Lopping Shears	6 lbs.	**79078**	**$130.75**
	2+		**$123.75**

Corona® Professional Lopping Shears

1774

1-1/2″ Cutting Capacity

Hook and blade shear cuts limbs up to 1-1/2″ diameter. Drop-forged alloy steel head with precision ground and matched blades. Top-grade hickory handles with neoprene shock absorber.

Model WL6361, 26″ Handles	2 lbs.	**79080**	**$59.25**
	3+		**$53.75**
Model WL6461, 32″ Handles	3 lbs.	**79084**	**$65.50**
	3+		**$60.75**

Corona® 32″ Forged Super-Duty Lopper

7610

3″ Cutting Capacity

Heavy-duty loppers feature 32″L steel handles, spring-loaded ShockStop bumper and precision self-aligning pivot bolt. Resharpenable, radial arc bypass blade made of fully heat-treated steel alloy provides a 3-inch cutting capacity.

Corona Model SL 6500 Lopper	5 lbs.	**79092**	**$38.95**

Safety Glasses
pages 596 thru 601

Tecnu® Extreme® Poison Ivy Scrub
page 650

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Snap-Cut® Hook and Blade Lopping Shears
1776

1-1/4″ Cutting Capacity

Hook and 2-1/2″ blade design with cushioned grip ash handles.

Snap-Cut 27″ Hook and Blade Lopping Shears	3 lbs.	**79072**	**$31.25**
		5+	**$29.25**

Felco® Lopping Shears
1780

1-1/2″ Cutting Capacity

Forged light metal. Shock-absorbing rubber bumpers. Grooved rubber handgrips.

F-200A-40 Lopper, 16″ long	2 lbs.	**79073**	**$91.25**
		3+	**$88.75**
F-200A-60 Lopper, 24″ long	3 lbs.	**79074**	**$104.75**
		3+	**$97.50**

New! Barnel® Orchard Lopper
4970

2″ Cutting Capacity

Drop forged Barnel Bartanium™ alloy high carbon steel blade provides cutting power. Deep anvil sap groove cleans blade after each cut. Self-oiling center bolt and polyurethane bumper shock absorber. Aircraft alloy extruded aluminum handles with anti-slip Thermo Plastic Rubber grips.

Model OR28A, 28″L	3 lbs.	**79057**	**$76.50**
Model OR32A, 32″L	3 lbs.	**79058**	**$79.95**

Bahco® SuperLite Professional Lopping Shears
3666

Extremely strong, very light aluminum handles result in less fatigue for the user. Other features include smooth grips for multiple hand positions; soft, shock absorbing buffers for maximum comfort; and a double-locking center bolt system that secures the blades.

Model P114 SuperLite Lopping Shears
1-1/4″ Cutting Capacity

Narrow cutting head for easy access and precise, quick cuts. Designed for soft and green wood. **Total length:** 24″.

Model P114-SL-60, 24″L	2 lbs.	**81089**	**$56.50**
		4+	**$53.75**

Model P160 SuperLite Lopping Shears
1-3/4″ Cutting Capacity

Slim, narrow blade combined with hooked counter blade for powerful, smooth cutting action. Long handles provide easy reach and overhead cutting. Specially designed for orchards and also recommended for landscaping.

Model P160-75, 30″L Lopper	3 lbs.	**81042**	**$73.95**
		3+	**$67.95**
Model P160-90, 35″L Lopper	3 lbs.	**81043**	**$78.75**
		3+	**$72.75**

Model P19 SuperLite Lopping Shears
2″ Cutting Capacity

Heavy-duty bypass lopper for cutting very thick and large branches on mature trees. Long handles for easy reach and overhead cutting. **Total length:** 32″.

Model P19-80, 32″L	4 lbs.	**81087**	**$112.75**
		3+	**$104.75**

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CORONA SEASON AFTER SEASON

Corona® Hedge Shears

1798

Made in USA

Manufacturer's Warranty Limited Lifetime

9-3/4″ Cut

The ergonomically designed, co-molded grips have a unique 30° angled grip end for better leverage, comfort and versatility. Elliptical aluminum handles offer maximum strength. Ergonomically correct blade-to-handle angle provides maximum safety and comfort. Fully-forged Coronium™ steel alloy blades, limb notch in lower blade. Forged-in bumper cups with Neoprene ShockStop™ bumper. Made in the U.S.A. Lifetime manufacturer's warranty. **Total length:** 26-1/2″.

Corona Hedge Shears	3 lbs.	**81153**	**$53.50**
		3+	**$49.95**

CORONA SEASON AFTER SEASON

Corona® Hedge Shears

1801

10″ Cut

Oversized blades make these shears a favorite of professionals and homeowners. Precision ground, high-carbon steel cutting head gives you clean, concise cuts. Balanced weight and neoprene bumper unit absorbs shock and reduces fatigue. **Total length:** 22″.

Corona Hedge Shears	2 lbs.	**81188**	**$58.25**
		3+	**$55.95**

CORONA SEASON AFTER SEASON

Corona® Forged Extension Handle Hedge Shears

8006

Manufacturer's Warranty Limited Lifetime

10″ Cut

Lightweight steel handles with comfort grips extend from 13″ to 20″ for easy reach. Features include forged high carbon steel blades for durability and strength, precision made pivot bolt for smooth cutting action, and a shock stop bumper to reduce arm and shoulder fatigue. Limited Lifetime Warranty from the manufacturer. **Total Length:** 26″, extendable to 33″.

Corona Forged Extension Handle Hedge Shear	4 lbs.	**81180**	**$38.25**
		4+	**$35.25**

BARNEL USA

Barnel® Lightweight Forged Hedge Shears

8346

9″ Cut

Lightweight drop forged aluminum handles with comfort grips. High carbon steel straight blades with hard chrome finish are replaceable. Self-oiling center bolt. 27-1/2″L.

Barnel Hedge Shears	2 lbs.	**81190**	**$57.25**
		6+	**$55.25**

BAHCO PRADINES

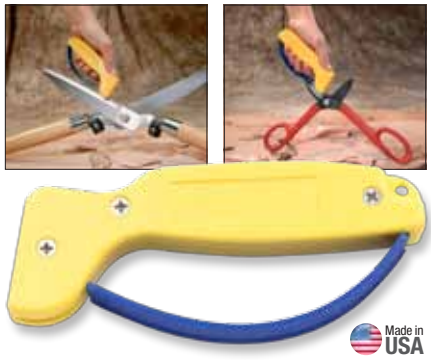
Bahco® Hedge Shears

1799

10″ Cut

Heavy gauge steel blades with serrated cutting edges firmly grip branch being cut. Blades are connected by padded locknut to prevent blades from coming apart and make clean cuts throughout entire blade length. Strong round aluminum handles provide excellent balance and feature rubber hand grips and double rubber buffers. **Total length:** 22″

Bahco Hedge Shears	2 lbs.	**81088**	**$64.50**
		3+	**$60.25**



Made in USA

ShearSharp® Sharpener

4089

Manufacturer's Warranty Lifetime

Speedy sharpening for your hedge clippers or scissors!

Simply draw ShearSharp® along each blade two or three times using light downward pressure to produce sharpest possible edge. The sharpener's diamond honed tungsten carbide sharpening blade provides years of use and can even be reversed to double the life of the sharpener! A full-length guard protects your fingers, and the large handle fits securely in either hand. ShearSharp® won't rust and can be cleaned with soap and water. Manufacturer's lifetime warranty. Made in the USA.

ShearSharp Sharpener	2 oz.	**35643**	**$9.95**

Oregon PowerNow 40V MAX Hedge Trimmer page 220

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CORONA
SEASON AFTER SEASON

Corona® 21″ Razor Tooth Pruning Saw
1733

Curved raker blade measures 21″L, 3″W at the butt, 1/2″W at the point and has a 6 mm gap between teeth for extra fast cutting and evenly spaced grooves to rake dust away as you saw. Tempered razor teeth are whetstone-ground and stay sharp up to three times longer than conventional blades. Each tooth is sharpened on three sides for faster cutting on the pull stroke. Hardwood D-handle.

Corona 21″ Razor Tooth Pruning Saw	1 lb.	**81273**	**$50.25**
	3+		**$46.95**

FANNO SAW WORKS

Fanno 22-1/2″ Pruning Saw
1737

Specifically designed for tree service companies desiring a saw with deep gullets which provide the user with a faster self-cleaning saw, in soft or fiberous type woods. Curved blade of this pull-cutting saw features a 22-1/2″ cutting edge with 4-1/2 points per inch and is made of 18-gauge special formula saw steel. Laminated handle.

Model K-24	1 lb.	**81279**	**$40.95**
	3+		**$38.50**

Nicholson®

Nicholson® 26″ "Silver Flash" Pruning Saw
1735

Our best-selling heavy-duty pruning saw. "Silver Flash" steel blade has extra large teeth and gullets for speed cutting large limbs. Concave cutting edge is precision set, bevel filed, and cuts on "pull" stroke. Wood handle with nickel plated screws. 26″ Flat ground blade is 3-5/16″ wide at butt, 1-13/32″ at point.

Nicholson 26″ "Silver Flash" Pruning Saw	2 lbs.	**81058**	**$63.75**
	3+		**$60.50**

Tree Bandage® Wound Dressing
7628

A unique solution for trees with damaged limbs or trunks! Tree Bandage penetrates into the wound and forms a glassious covering that actually becomes part of the tree. Non-toxic and non-hazardous with zero VOC, the water-based formula will not harm the tree or bush. When applied, the silica in Tree Bandage forms a silicon dioxide (quartz) protective bandage. Only minutes after application, the bandage begins forming. Within a week, the bandage is usually completely hardened, allowing calluses to form over the wounded area. Immediately after trimming or pruning, apply Tree Bandage using a brush (or garden sprayer when treating very large areas or bushes). Two or three applications are sometimes required to fully cover the wound area. Coverage is 100 square feet per gallon per coat.

16 oz. Tree Bandage Spray Bottle	1 lb.	**79100**	**$12.95**
One Gallon Tree Bandage Refill	9 lbs.	**79101**	**$37.95**

Scabbards
1730

Nickel-plated tool snap on front for attaching extra tools. Nylon washer at scabbard opening protects saw teeth and scabbard from wear. Convenient D-ring on back for attaching to work belt or saddle.

27″ Curved Rubberized Belting Scabbard, Fits most curved saw blades up to 27″ L.	2 lbs.	**27269**	**$27.25**
27″ Leather Saw Scabbard, Fits most curved saw blades up to 27″ L.	2 lbs.	**81077**	**$47.75**

BAHCO
PRADINES

Bahco® Bow Saws
1732

Strong steel tubing frames, tension lever for quick blade change. Hardened steel blades never need resharpening.

Bahco® #9 "All Purpose" Bow Saw

#9 "All Purpose", 3/4″ x 36″ Blade	2 lbs.	**75091**	**$21.25**
	5+		**$19.25**
Replacement Blade	4 oz.	**75085**	**$8.75**

Bahco® Swifty Bow Saw

21″L, 3/4″ x 21″ Blade	1 lb.	**75080**	**$15.50**
	3+		**$13.80**
24″L, 3/4″ x 24″ Blade	2 lbs.	**75067**	**$18.95**
30″L, 3/4″ x 30″ Blade	2 lbs.	**75068**	**$20.95**
Optional Blade for Green Wood, 3/4″ x 21″ Blade	3 oz.	**75086**	**$6.25**
Replacement 3/4″ x 21″ Blade	3 oz.	**75081**	**$5.95**
Replacement 3/4″ x 24″ Blade	3 oz.	**75069**	**$6.25**
Replacement 3/4″ x 30″ Blade	2 oz.	**75070**	**$7.25**

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1

1 Felco® F-621 9.5″ Pruning Saw
1741

This pull-stroke pruning saw features a 9.5″ rust-resistant, chromed blade made of steel. The teeth are impulse heat treated for added durability. The ergonomic, non-slip handle provides good handling. Plastic sheath is included. **Overall length:** 16.5″.

Felco Model 621 9.5″ Pruning Saw	13 oz.	**81109**	**$59.75**
		3+	**$56.75**
Replacement 9.5″ Blade for 81109	3 oz.	**81122**	**$41.25**

2

2 Felco® F-611 13″ Pruning Saw
1741

The fastest cutting 13″ blade we've ever seen! Its wide bottom and thick top eliminate clogs and binds. Seven razor sharp teeth per inch make sawing smooth and easy. Plastic sheath included. **Overall length:** 19″.

Felco Model F-611 13″ Pruning Saw	1 lb.	**81138**	**$61.50**
		3+	**$58.50**
Replacement 13″ Blade for 81138	5 oz.	**81134**	**$47.50**

3

3 Corona® 13″ Curved Pruning Saws
1739

Tempered razor teeth are whetstone-ground and stay sharp up to three times longer. Each tooth is sharpened on three sides for faster cutting on the pull stroke. Pistol grip plastic handle.

Tooth gap: 4mm. **Blade length:** 13″. **Overall length:** 19″.

13″ Curved Pruning Saw with Plastic Handle	10 oz.	**81262**	**$27.25**
		6+	**$25.75**
13″ Curved Pruning Saw with Wooden Handle	9 oz.	**81272**	**$27.25**
		6+	**$25.75**
Replacement Blade	5 oz.	**81263**	**$19.50**
		6+	**$17.75**
Plastic Scabbard	5 oz.	**81229**	**$10.50**
		6+	**$9.95**

4

4 Fanno 13″ Curved Pruning Saw
1740

Curved blades feature 6 tri-edge razor teeth per inch for cleaner, faster cuts, saving time and labor. Laminated hardwood handle.

No. FI-1311 – 13″ Saw	9 oz.	**81278**	**$22.95**
		6+	**$21.25**
No. FI-1311 Replacement Tri-Edge Blade	5 oz.	**81277**	**$17.95**
		6+	**$16.25**

5

5 Fanno No. 14 Rigid Pruning Saw
2931

The smaller tooth design of this saw enables the cutting of hardwoods (such as citrus fruit trees and general orchard pruning) without tearing the bark. 13″ Cutting edge is made from 19-gauge special formula saw steel and features 7 points per inch. 8″ Rigid hardwood handle. **Overall Length:** 21″.

No. 14 Rigid Pruning Saw	8 oz.	**81321**	**$18.95**
		6+	**$17.25**

6

6 Fanno 14″ Curved Pruning Saw
1740

Model FI K1500

Curved blade features 6 raker teeth per inch. Laminated hardwood handle has a comfortable, contoured D-grip.

No. FI-K1500 – 14″ Saw	10 oz.	**81326**	**$27.95**
		6+	**$25.95**
No. FI-K1500 Replacement Raker Blade	6 oz.	**81327**	**$20.25**
		6+	**$18.95**

7

7 Fanno 15″ Curved Pruning Saw
1740

Model FI-1700

Curved blade features 6 tri-edge razor teeth per inch for cleaner, faster cuts, saving time and labor. Laminated hardwood handle.

No. FI-1700 – 15″ Saw	15 oz.	**81324**	**$37.95**
		6+	**$35.75**
No. FI-1700 Replacement Tri-Edge Blade	9 oz.	**81325**	**$26.95**
		6+	**$25.25**
Black Rubberized Belting Saw Sheath for Fanno No. FI-1700 15″ Saw	1 lb.	**27266**	**$16.25**

8

8 Curved Saw Sheaths
1738

Convenient D-ring hooks to your belt snap. Sheaths do not fit folding saws.

Black Rubberized Belting Sheath with Tool Snap - Holds saws up to 13″ long.	15 oz.	**27267**	**$18.25**
Leather Sheath with Tool Snap - Holds saws up to 13″ long.	14 oz.	**27268**	**$27.50**
Black Rubberized Belting Sheath with Pruner Pouch - Holds saws up to 13″ long.	1 lb.	**27272**	**$26.25**

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Silky

1 Silky Sugowaza 420 Handsaw
7912

Made in Japan — Manufacturer's Warranty Limited Lifetime

16.5″ Blade is tapered from the tooth tip to the back spine to reduce resistance and deliver smoother, faster cutting. Hard chrome plating for an exceedingly durable surface resistant to rust and effects of resin. Cuts on the pull stoke. Large grooved rubber handle. Included scabbard has D-ring and strap slots.

Overall Length: 23.75″. **Teeth Configuration:** 5.5 teeth per inch.

Sugowaza 420mm Saw	2 lbs.	**81198**	**$106.95**
Replacement Blade	9 oz.	**81199**	**$69.95**
Leg Straps	3 oz.	**81203**	**$22.95**

2 Silky Tsurugi Saw
7883

Made in Japan — Manufacturer's Warranty Limited Lifetime

The Sure-Grip rubber composite handle provides good grip and ergonomics while the blade is easily changed in less than 20 seconds - no tools required! Each saw comes with an aluminum leg scabbard with a unique 6 roller design to reduce scabbard wear and protect the teeth. Limited lifetime warranty from the manufacturer. Available in either 11.8″ straight or 13″ curved blade. **Teeth Configuration:** Medium – 8.5 teeth per inch, Large – 6.5 teeth per inch.

Straight, Medium Teeth, 300mm	1 lb.	**81300**	**$74.95**
Straight, Large Teeth, 300mm	1 lb.	**81301**	**$74.95**
Replacement Blade, Tsurugi Straight, Medium Teeth, 300mm	4 oz.	**81306**	**$43.95**
Replacement Blade, Tsurugi Straight, Large Teeth, 300mm	4 oz.	**81307**	**$43.95**
Leg Straps	3 oz.	**81203**	**$22.95**
Curve, Medium Teeth, 330mm	1 lb.	**81330**	**$87.95**
Curve, Large Teeth, 330mm	1 lb.	**81331**	**$87.95**
Replacement Blade, Tsurugi Curve, 330mm Medium Teeth	6 oz.	**81332**	**$50.95**
Replacement Blade, Tsurugi Curve, 330mm Large Teeth	6 oz.	**81333**	**$50.95**

3 Silky Gomtaro 300 Handsaw
7634

Made in Japan — Manufacturer's Warranty Limited Lifetime

Offering excellent cutting efficiency, this saw features a rust-resistant, hard chrome-plated, taper-ground blade with 7 teeth per inch and an impulse-hardened non-set tooth design. Precision-ground, razor-sharp teeth with four cutting angles ensure fast, clean, smooth cutting action. The non-slip cushioned rubber handle provides a sure, comfortable grip.

Includes scabbard with blade rollers and belt clip. Manufacturer's limited lifetime warranty.

Overall Length: 17.13″. **Teeth Configuration:** 7 teeth per inch.

Silky Gomtaro 300 Handsaw	13 oz.	**81211**	**$64.95**
Silky Gomtaro 300 Replacement Blade	5 oz.	**81212**	**$39.95**

4 Silky Sugoi Curved Saw
8075

Made in Japan — Manufacturer's Warranty Limited Lifetime

Curved blade is razor-sharp and ultra-fast cutting! The super aggressive teeth pattern is ideal for pruning large limbs. Large, comfortable sure-grip handle gives strength and flexibility to the full length of the saw while the curved blade increases strength and performance. Includes plastic scabbard with blade rollers. Scabbard can attach to belt or to calf. Manufacturer's limited lifetime warranty. **Teeth Configuration:** 5.5 teeth per inch.

Silky Sugoi 360mm Handsaw	2 lbs.	**81231**	**$94.95**
Replacement Blade for 81231	9 oz.	**81232**	**$64.95**
Silky Sugoi 420mm Handsaw	2 lbs.	**81227**	**$99.95**
Replacement Blade for 81227	9 oz.	**81228**	**$68.95**

5 Silky Gomtaro 240 Root-Cutting Handsaw
7757

Made in Japan — Manufacturer's Warranty Limited Lifetime

9-1/2-inch, mono-constructed, taper-ground blade has 7 large, razor-sharp teeth per 1″ and is rust-resistant, hard chrome-plated (including teeth) with an impulse-hardened, non-set tooth design for smooth cutting action. Non-slip cushioned rubber handle. Polypropylene sheath with belt clip included. Limited lifetime warranty from the manufacturer.

Overall Length: 14.37″. **Teeth Configuration:** 7 teeth per inch.

Gomtaro 240	9 oz.	**81201**	**$62.95**
Replacement Blade	2 oz.	**81202**	**$37.95**

6 Silky Ibuki 390 Handsaw
2626

Made in Japan — Manufacturer's Warranty Limited Lifetime

The large, comfortable hand grip on the Ibuki provides excellent control over the full length of the saw. The heavy duty 15-1/3″ blade is designed to cut on the pull stroke. Includes a sheath with a belt strap as well as a ring attachment that allows attachment to a tree saddle using a carabiner.

Overall Length: 24″. **Teeth Configuration:** 5.5 teeth per inch.

Ibuki 390 Handsaw	2 lbs.	**81235**	**$100.95**
Silky Ibuki Replacement Blade	8 oz.	**81238**	**$69.95**

7 Silky Zubat Handsaw
2625

Made in Japan — Manufacturer's Warranty Limited Lifetime

Ideal for cutting large branches, this heavy-duty saw features a curved blade with 6.5 teeth per inch. Hard chrome plated blade resists rust and the effects of tree resin and wipes clean easily. Features mono-construction with a comfortable molded rubber handle. Sheath and detachable belt holder included.

Zubat 330mm, Blade Length: 13″ (330mm). Overall Length: 18.5″.	1 lb.	**81230**	**$74.95**
Replacement Blade Zubat 330mm	5 oz.	**81217**	**$47.95**
New! Zubat 300mm, Blade Length: 11.8″ (300mm). Overall Length: 17.32″.	1 lb.	**81336**	**$71.95**
New! Replacement Blade Zubat 300mm	5 oz.	**81337**	**$44.95**
New! Zubat 270mm, Blade Length: 10.6″ (270mm). Overall Length: 15.75″.	15 oz.	**81334**	**$66.95**
New! Replacement Blade Zubat 270mm	4 oz.	**81335**	**$42.95**
Leg Straps	3 oz.	**81203**	**$22.95**

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Silky

Silky Pocketboy Folding Saw

2628

Made in Japan

Manufacturer's Warranty Limited Lifetime

This sleek, compact saw features a rust-resistant blade with hard chrome plating. Precision-ground, razor sharp teeth provide fast, smooth cutting. Select a model with larger teeth for faster cutting, or choose a model with finer teeth for smooth, precision cuts. Large teeth saws are best for pruning and green wood. Medium teeth saws are best for soft wood. Fine teeth saws are best for hard wood and bamboo. Each blade resists the effects of tree resin and easily wipes clean. The non-slip rubber handle provides a sure, comfortable grip. Plastic carrying case with belt clip included. Limited lifetime warranty from the manufacturer.

POCKETBOY 130 Folding Saw

Pocketboy 130mm, Fine Teeth	8 oz.	**81118**	**$35.95**
Replacement Blade for 81118, Fine Teeth	1 oz.	**81119**	**$22.95**
Pocketboy 130mm, Medium Teeth	8 oz.	**81222**	**$35.95**
Replacement Blade for 81222, Medium Teeth	1 oz.	**81223**	**$22.95**
Pocketboy 130mm, Large Teeth	8 oz.	**81113**	**$35.95**
Replacement Blade for 81113, Large Teeth	1 oz.	**81114**	**$22.95**

POCKETBOY 170 Folding Saw

Pocketboy 170mm, Fine Teeth	11 oz.	**81115**	**$38.95**
Replacement Blade for 81115, Fine Teeth	2 oz.	**81116**	**$24.95**
Pocketboy 170mm, Medium Teeth	12 oz.	**81213**	**$38.95**
Replacement Blade for 81213, Medium Teeth	2 oz.	**81214**	**$24.95**
Pocketboy 170mm, Large Teeth	9 oz.	**81166**	**$38.95**
Replacement Blade for 81166, Large Teeth	1 oz.	**81167**	**$24.95**

Made in Japan

Manufacturer's Warranty Limited Lifetime

Silky

New! Silky® Gomboy Folding Saw

4971

Precision-ground, impulse-hardened teeth combined with a premium, rubber padded handle offers unmatched, superior performance. Aggressive teeth cut cleanly with amazing speed in green or dry wood. Reliable spring-loaded blade lock makes sawing safe. Includes a custom storage case.

Blade Length: 210mm/8.3″. **Teeth per inch:** 8.5. **Cut Capacity:** 4.2″.

Silky Gomboy Folding Saw, 210mm, Medium Teeth	11 oz.	**81031**	**$42.95**
Replacement Blade for Silky Gomboy 210mm	2 oz.	**81032**	**$27.95**

Made in Japan

Manufacturer's Warranty Limited Lifetime

Silky

Silky Super Accel 210 Folding Saw

2627

Lightweight and versatile saw features an 8-1/4″ blade which snaps into two different angle positions for easy cutting. The durable, hard chrome plated blade resists rust and the effects of tree resin and has 6.5 teeth per inch. The razor sharp teeth have four cutting angles along the length of the blade for fast, clean cuts. The aluminum handle features a comfortable rubber grip.

Overall Length: 17.32″. **Folded Length:** 9.45″. **Teeth Configuration:** 6.5 teeth per inch.

Silky Super Accel 210 Folding Saw	8 oz.	**81081**	**$43.95**
Replacement Blade	2 oz.	**81112**	**$29.95**
Leather Folding Saw Pouch	5 oz.	**57387**	**$12.75**
Caseboy Scabbard for Silky Folding Saws 180mm-300mm	8 oz.	**81164**	**$27.53**

Made in Japan

Manufacturer's Warranty Limited Lifetime

Silky

Silky F180 Folding Saws

2443

Lightweight with 7-inch blade. The precision-ground, razor sharp blade has four cutting angles along the length of the blade. Blade securely locks into two different angle positions. Handle is fiberglass polypropylene with a rubber insert. Large teeth model has 6.5 tpi while the fine teeth model has 12 tpi. Limited lifetime warranty from the manufacturer.

Overall Length: 16.14″. **Folded Length:** 8.86″.

F180 Fine Teeth Folding Saw	6 oz.	**81193**	**$32.95**
F180 Fine Teeth Replacement Blade	2 oz.	**81194**	**$21.95**
F180 Large Teeth Folding Saw	7 oz.	**81195**	**$32.95**
F180 Large Teeth Replacement Blade	2 oz.	**81196**	**$21.95**
Caseboy Scabbard for Silky Folding Saws 180mm-300mm	8 oz.	**81164**	**$27.53**

Made in Japan

Manufacturer's Warranty Limited Lifetime

Silky

Silky Katanaboy 500 Folding Saw

7758

A great alternative to chain saws!

Two-handed, professional, heavy-duty folding saw with a 19-4/5″ blade that is well-balanced and taper-ground with a non-set tooth design for extended working reach and faster cutting. The non-slip, two-handed, rubberized cushioned handle provides a sure and comfortable grip even in the most difficult operating conditions. Comes with a sturdy nylon shoulder bag with Velcro fastening and a pocket for replacement blades. Security screw protects against accidental opening or closing of the blade. Limited lifetime warranty against defects in material and workmanship.

Overall Length: 46-3/8″. **Folded Length:** 26″. **Teeth Configuration:** 4 teeth per inch.

Silky Katanaboy 500mm, X-Large Teeth	3 lbs.	**81142**	**$196.95**
Replacement Blade	8 oz.	**81143**	**$96.95**

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Made in Japan

Manufacturer's Warranty Limited Lifetime

Silky

Silky Ultra Accel 240 Curved Blade Folding Saw

4713

A folding saw that you can hold on to but works like a fixed-blade! Built with a sturdy yet lightweight aluminum chassis, the Silky ULTRA ACCEL with 240-mm curved blade for super aggressive cutting features an easy-grip rubberized handle.

Overall Length: 19.88″. **Folded Length:** 11.75″. **Teeth Configuration:** 6.3 teeth per inch.

Silky Ultra Accel 240mm Curved Blade, Large Teeth	13 oz.	**81146**	**$56.95**
Replacement Blade for Silky Ultra Accel Curved Blade Folding Saw, 240mm Large Teeth	3 oz.	**81151**	**$34.95**

Made in Japan

Manufacturer's Warranty Limited Lifetime

Silky

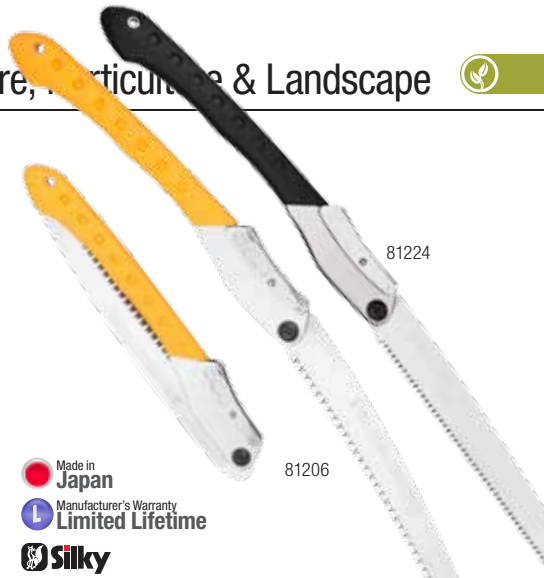
Silky Ultra Accel 240 Straight Blade Folding Saw

4713

Works like a fixed-blade, yet folds when not in use! Built with a sturdy yet lightweight aluminum chassis, the Silky ULTRA ACCEL with 240-mm straight blade for detailed pruning features an easy-grip rubberized handle.

Overall Length: 19.88″. **Folded Length:** 11.75″. **Teeth Configuration:** 6.3 teeth per inch.

Silky Ultra Accel 240mm Straight Blade, Large Teeth	12 oz.	**81147**	**$56.95**
Replacement Blade for Silky Ultra Accel Straight Blade Folding Saw, 240mm, Large Teeth	3 oz.	**81152**	**$34.95**



Made in Japan

Manufacturer's Warranty Limited Lifetime

Silky

Silky Bigboy 2000 Folding Saw

7636

Features a 14.2″ hard chrome-plated, taper-ground blade. The perfectly balanced, low angle curve design allows for smooth, fast cutting of large limbs and small tree trunks. The two-handed, rubberized, cushioned handle provides a sure, comfortable grip even in the most challenging work environments. Limited lifetime warranty from the manufacturer.

Overall Length: 30.11″. **Folded Length:** 15.94″. **Cut Capacity:** 7.1″.

Bigboy 2000, 360mm, X-Large teeth, 5.5 teeth per inch	1 lb.	**81206**	**$68.95**
Replacement Blade Bigboy 2000	5 oz.	**81207**	**$38.95**
Silky Bigboy Folding Saw 360mm, Medium Teeth, 8.5 teeth per inch	1 lb.	**81224**	**$61.95**
Replacement Blade for Bigboy 360mm, Medium teeth	4 oz.	**81252**	**$34.95**
Silky Bigboy Sheath	8 oz.	**81165**	**$25.95**

Tree Bandage® Wound Dressing

7628

A unique solution for trees with damaged limbs or trunks! Tree Bandage penetrates into the wound and forms a glassious covering that actually becomes part of the tree. Non-toxic and non-hazardous with zero VOC, the water-based formula will not harm the tree or bush. When applied, the silica in Tree Bandage forms a silicon dioxide (quartz) protective bandage. Only minutes after application, the bandage begins forming. Within a week, the bandage is usually completely hardened, allowing calluses to form over the wounded area. Immediately after trimming or pruning, apply Tree Bandage using a brush (or garden sprayer when treating very large areas or bushes). Two or three applications are sometimes required to fully cover the wound area. Coverage is 100 square feet per gallon per coat.

16 oz. Tree Bandage Spray Bottle	1 lb.	**79100**	**$12.95**
One Gallon Tree Bandage Refill	9 lbs.	**79101**	**$37.95**

ARS

ARS Saw Sharpener

7652

Designed to keep your tri-edge saw blades super sharp! The file is angled so that two surfaces can be sharpened simultaneously. Sharpening manual included.

ARS Saw Sharpener	2 oz.	**33980**	**$20.95**

Note: Impulse hardened blades cannot be sharpened.

The Sling Bag

8577

The Sling Bag can hold loads up to 3,000 lbs. and is perfect for use anywhere a sheet of plywood or tarp would normally be used to collect dirt or trimmings. Four sewn straps allow you to hand carry The Sling Bag or drag it behind a tractor. The Sling Bag can be used to lift a balled tree, drag bags of concrete, and more! The geo-textile fabric will not mold and allows moisture to escape while holding in all contents. **Dimensions:** 7′10″ x 7′10″.

The Sling Bag	5 lbs.	**69181**	**$89.00**
		3+	**$79.00**

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Manufacturer's Warranty Lifetime

New! Wicked Tough Hand Saw
4854

Combining a rugged cast aluminum handle with a non-slip rubber over-mold grip, this saw is ergonomically designed to fit your hand for superior comfort and work efficiency! The Wicked Sharp™ impulse-hardened high carbon steel blade cuts quickly and smoothly through all types of wood. Built for outstanding durability, the Fail Safe Blade Lock Design™ is comprised of a hardened steel lock-pin and hardware. Lifetime warranty from the manufacturer on everything except the blade.

Open Length: 14″. **Closed Length:** 8.25″. **Blade Length:** 7″. **Weight:** .5 lbs.

Wicked Tough Hand Saw	10 oz.	**81007**	**$39.99**
Replacement Blade	2 oz.	**81139**	**$19.99**

Weaver® Leather Folding Saw Pouch
2726

This top grain steer hide leather pouch features a pliable, 3-1/4″ x 7″ soft brown oil tanned front and a 12-1/4″ back. Use the 2″ clip on the back for quick attachment to a belt or the 2″ slots to slide the belt through instead. The pouch is lockstitched and riveted for superior strength and features nickel plated hardware. Accommodates saws measuring 7″ to 10″ (folded length).

Leather Folding Saw Pouch	5 oz.	**57387**	**$12.75**
Leather Folding Saw Pouch with Pruner Pouch	7 oz.	**57385**	**$19.75**

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DESKTOP. TABLET. MOBILE.
THE NEW FORESTRY-SUPPLIERS.COM

CORONA SEASON AFTER SEASON

Corona® 10″ Folding Razor Tooth® Pruning Saw
7614

Ideal for use on small to medium branches, this folding saw features a 10″ curved blade with three-sided razor teeth for fast, efficient cutting. The teeth are impulse-hardened for a long service life, and the blade is hot chrome-plated to prevent corrosion. The ergonomically designed co-molded handle provides a sure, comfortable grip.

Corona Model RS 7265 Pruning Saw	12 oz.	**81103**	**$21.95**

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CORONA SEASON AFTER SEASON

Corona® Razor Tooth Folding Saws
1742

Manufacturer's Warranty Limited Lifetime

Blade design allows faster cutting and has a thin top and thick bottom to prevent clogging and binding. Ergonomically designed plastic handle features non-slip rubber grip. 3-Sided razor teeth are permanently filed for unbeatable sharpness. **Gap between teeth:** 3 mm. Limited lifetime warranty from the manufacturer.

Corona 7″ Folding Saw	9 oz.	**81269**	**$21.95**
		3+	**$20.50**
Replacement Blade for 81269	2 oz.	**81270**	**$19.25**
		3+	**$18.25**
Corona 8″ Folding Saw	10 oz.	**81281**	**$24.95**
		6+	**$22.95**
Replacement Blade for 81281	2 oz.	**81282**	**$19.25**
Leather Pruner Holster	4 oz.	**57386**	**$10.95**

CORONA SEASON AFTER SEASON

Corona® 10″ Folding Saw
1745

Features ergonomically designed wood handle for better grip and easy-to-latch blade lock to prevent injuries. Curved blade is 10″ long and folds into handle when not in use. **Overall length:** 22-3/4″.

Corona 10″ Folding Saw	11 oz.	**81274**	**$29.25**
		3+	**$26.50**
Leather Folding Saw Pouch	5 oz.	**57387**	**$12.75**

FANNO SAW WORKS

Fanno Folding Saws
1746

Full-cutting from butt to tip of blade! Blades are made of 19-gauge special formula saw steel and feature 6 teeth per inch. Hardwood handle.

No. 1, 10-1/2″ Folding Saw with Fanno Lance Tooth Design	9 oz.	**81276**	**$15.95**
No. FI-112, 10-1/2″ Folding Saw with Tri-Edge Tooth Design	8 oz.	**81322**	**$18.95**
		6+	**$17.25**
No. 0, 14″ Folding Saw with Fanno Lance Tooth Design	12 oz.	**81320**	**$18.95**
		6+	**$17.25**
Replacement Blade No. FI-112	3 oz.	**81323**	**$12.50**
		6+	**$11.50**

FELCO

Felco® F-600 6″ Folding Saw
6134

Folded, it's only 8″ long and easily slips into your pocket. Unfolded, it expands to 14″ for ample cutting leverage. 6″ Blade cuts through branches up to 4″ in diameter without clogging or binding. Safety latch prevents accidental folding.

Felco F-600, 6″ Folding Saw	8 oz.	**81136**	**$34.95**
		3+	**$31.95**
Replacement Blade	2 oz.	**81137**	**$26.25**
Leather Pruner Holster	4 oz.	**57386**	**$10.95**

BAHCO PRADINES

Bahco® 8″ Folding Saw
1744

Only 9″ long folded, 16″ long open. Hardened teeth are precision ground for cutting dry or green wood, plastic, bone, etc. 8″ Heavy gauge steel blade features patented black anti-friction coating which reduces friction and rusting. Safety lock holds blade open or closed and is positioned near thumb for easy access. Leather thong for attaching saw to belt.

Bahco 8″ Folding Saw	8 oz.	**81275**	**$24.25**
		5+	**$22.50**

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New! Wicked Stick
4854

Constructed of Wicked Sharp™ impulse-hardened high carbon steel, the Wicked Stick's curved-style arborist blade ensures fast, smooth cutting power! The Wicked Stick has an open length of 40″ and features a 12″ custom rubber grip for comfortable two-handed operation. The cast aluminum saw head and hinge mechanism are lightweight yet strong, and the Zero Slop Hinge Lock™ combines heavy-duty hardware with a rubber compression pad to eliminate movement in the saw head. The Fail Safe Blade Lock Design™ incorporates a hardened steel lock-pin and hardware for maximum durability. Lifetime warranty from the manufacturer on everything except the blade.

Open Length: 40″. **Closed Length:** 18″. **Blade Length:** 11″. **Weight:** 2 lbs.

Wicked Stick	2 lbs.	**81044**	**$109.99**
Replacement Blade	3 oz.	**81141**	**$34.99**

New! Wicked Tough Pole Saw
4854

This telescoping pole saw's curved-style arborist blade is constructed of Wicked Sharp™ impulse-hardened high carbon steel, ensuring smooth, fast cutting through all types of wood! The cast aluminum saw head and hinge mechanism are strong yet lightweight, and a custom rubber grip provides comfort while you work. The Zero Slop Hinge Lock™ utilizes heavy-duty hardware and a rubber compression pad to eliminate movement in the saw head. With a hardened steel lock-pin and hardware, the Fail Safe Blade Lock Design™ offers superior durability. Lifetime warranty from the manufacturer on everything except the blade.

Manufacturer's Warning: Do not use aluminum poles around electrical lines or equipment. Electrical shock may result.

Wicked Tough 6′ Pole Saw, Open Length: 6′. Closed Length: 19″. Blade Length: 11″. Weight: 2.5 lbs.	3 lbs.	**81046**	**$139.99**
Wicked Tough 12′ Pole Saw, Open Length: 12′. Closed Length: 32″. Blade Length: 11″. Weight: 3.9 lbs.	4 lbs.	**81060**	**$199.99**
Wicked Tough 15′ Pole Saw, Open Length: 15′. Closed Length: 42″. Blade Length: 11″. Weight: 4.6 lbs.	5 lbs.	**81069**	**$249.99**
Replacement Blade	3 oz.	**81141**	**$34.99**

FANNO SAW WORKS

Fanno Pole Saw with 16-1/2″ Blade
2547

This versatile saw is perfect for clearing trails, cutting roots during tree removal, landscape work, and general maintenance. The 16-1/2″ blade is constructed of 18 gauge special formula bright polished saw steel and has 5.5 points per inch lance teeth. The saw's limb hook is ideal for pulling cut limbs from the tree. 30″L Contoured laminated hardwood handle.

Fanno Pole Saw with 16-1/2″ Blade	2 lbs.	**81023**	**$34.95**
		3+	**$31.95**

New! Gotcha Sprayer Pro™
4989

Use the Gotcha Sprayer Pro adaptor with virtually any standard aerosol can to easily and safely spray hard-to-reach areas! Simply place the can in the adaptor and then attach the adaptor to an extension pole (sold separately). A trigger mechanism dispenses the spray, and the adaptor adjusts to almost any angle to reach the precise target area. In addition to saving time, the Gotcha Sprayer Pro also reduces the risk of ladder injuries and decreases exposure to spray chemicals. Ideal for use with wasp/hornet spray, spray paint, aerosol window cleaner, and pruning compound. Includes diamond braided cord.

Gotcha Sprayer Pro Adaptor	7 oz.	**25427**	**$27.50**
Telescoping Extension Pole, Three-section pole extends from 4.25′ to 11.75′. Features a composite fiberglass handle, aluminum tube, and 3/4″ die-cast metal threaded end.	2 lbs.	**25426**	**$37.95**

High Limb Chainsaw
1718

Cut branches as high as 30′ while standing on solid ground!

24″ or 48″ chain blade attached between two 25′ cords. Toss one end of cord is tossed over limb, position the chain blade, and cut by pulling cords back and forth. Includes weight pouch and instructions. Use 24″ chain for limbs up to 8″ diameter; 48″ chain for limbs up to 10″ diameter.

24″ High Limb Chainsaw 2 lbs.	**81078**	**$28.75**
48″ High Limb Chainsaw 2 lbs.	**81079**	**$42.25**

Treekote Aerosol Tree Wound Dressing
1963

Apply to freshly pruned areas to protect from decay, insects, and fungi. Withstands all types of weather. Convenient aerosol spray.

Net weight: 12 ounces.

Treekote Aerosol Wound Dressing 1 lb.	Ⓐ	**79004**	**$9.25**
		12+	**$8.25**
Multi-Purpose Holder 3 oz.		**27295**	**$7.50**

Ⓐ Extra Charge if Shipped by Air. See Shipping Information for details.

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Manufacturer's Warning: Do not use aluminum poles around electrical lines or equipment. Electrical shock may result.

1 Corona® 12´ Compound Action Tree Pruner

3755

Manufacturer's Warranty **Limited Lifetime**

Features of this pruner include a die-cast zinc alloy pruning head and a 15˝ fully heat-treated, Teflon™-coated steel saw blade with a 1˝ diameter cutting capacity. The pruner's pass-thru shearing action evenly directs the blade, and the compound-action pulley system triples cutting power. The lightweight fiberglass pole telescopes to 12´ and features a 28˝ non-slip cushioned grip. The pruner also features a weather-resistant polypropylene pull-rope and wood grip. Manufacturer's limited lifetime warranty.

Corona 12´ Compound Action Tree Pruner	X	5 lbs.	**81155**	**$51.25**
Replacement Saw Blade		7 oz.	**81156**	**$11.25**
Replacement Cutting Blade		3 oz.	**80998**	**$8.50**

2 Aazel Tree Pruning Pole Saw

1729

Extra-thick 20˝ steel saw blade with deep 4-1/2 teeth per inch cuts 1/3 faster than shallower 8 teeth per inch blades. Blade is adjustable to 13 positions. Aluminum sectional poles can be assembled up to 40´ and are stackable (order poles separately). A 30´ telescoping pole is also available.

20˝ Saw Head with Aluminum Pole Adapter		2 lbs.	**81025**	**$87.50**
6´ Aluminum Sectional Pole	X	2 lbs.	**81028**	**$43.75**
8´ Aluminum Sectional Pole	X	2 lbs.	**81017**	**$54.25**
30´ (five 6´ sections) Heavy Duty Telescoping Aluminum Pole		8 lbs.	**81036**	**$292.00**
20˝ Replacement Saw Blade		10 oz.	**81027**	**$40.25**
Black Rubberized Belting Sheath		1 lb.	**27215**	**$15.95**

Aazel Heavy-Duty Aluminum Telescoping Pole

For use with the Aazel 20˝ saw head, these heavy-duty poles feature a collet to adjust length with a quick twist. Base of pole is 1-1/2˝ diameter for a comfortable grip and extra rigidity. Poles can be stacked, and sections stored easily within each other. Additional sections (sold separately) can be added to extend the length up to 40´.

30´ (five 6´ sections) Heavy Duty Telescoping Aluminum Pole		8 lbs.	**81036**	**$292.00**

3 ARS Super Turbocut® Curved Pole Saw

2617

Features a hooked tip ideal for pulling cut branches free and also prevents blade from coming out of the cut. The hard chrome plated teeth cut in all directions to the grain, and the bark cutter prevents the remaining bark from peeling when branch is cut. A notch in the cutter blade allows the saw to be temporarily hung on a branch. The telescoping poles (sold separately) have a unique track system along the center section that allows positive locking at any point. Quick release head. Optional adapter (sold separately) for popular pruner heads. Sheath included.

16˝ Super Turbocut Curved Pole Saw Head		2 lbs.	**81095**	**$95.75**
(poles sold separately)			4+	**$89.95**
18.5´ Telescoping Pole (7´ to 18.5´)	X	5 lbs.	**81096**	**$180.25**
			2+	**$170.95**
Adapter for Corona, Jameson, and Marvin Pole Pruner Heads		8 oz.	**81094**	**$15.25**

4 Barnel® Pole Saw Head with Sheath

2442

This 17˝ pole saw blade offers aggressive 5.5mm raker tooth pitch at 1.4mm blade material thickness for high speed sawing. Also features a sturdy bark stripper and comes with an ABS, hard plastic sheath. Pole saw head with sheath only, order pole separately.

Barnel Pole Saw Head with Sheath		2 lbs.	**81000**	**$67.25**
Aluminum Pole Saw Pole - Telescopes from 7.5´ to 19´	X	5 lbs.	**81002**	**$152.95**

5 Silky Zubat Telescoping Pole Saws

7635

Made in **Japan**

Manufacturer's Warranty **Limited Lifetime**

Ultra Lightweight Pole Saw

This lightweight, professional-grade telescoping pole saw features a 13˝ blade with 6.5 teeth per inch. The precision-ground, razor sharp teeth feature four cutting angles to ensure fast, clean, smooth cutting. In addition, the taper-ground profile reduces drag and directs more usable energy to the cutting edge. Oval-shaped aluminum alloy extension poles provide precise blade control, vitally important for high cutting. The base pole features a pole-end shock absorber and a comfortable rubberized overgrip. The ZUBAT utilizes two locking systems to provide superior structural strength. Spring-loaded locking buttons allow for multiple length adjustments, and safety friction clamps hold the extensions securely in place. Limited lifetime warranty from the manufacturer.

Zubat 9´ Pole Saw, Extends from 5.5´ to 9´	X	3 lbs.	**81215**	**$142.95**
Zubat 13´ Pole Saw, Extends from 7.7´ to 13´	X	4 lbs.	**81216**	**$180.95**
Replacement Blade Zubat 330mm		5 oz.	**81217**	**$47.95**

X Items 60˝ or more require an additional handling charge.

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1 Silky Longboy 12´ Telescoping Pole Saw
2444

Lightweight, state-of-the-art telescoping folding pole saw! The aluminum alloy extension poles are oval shaped, providing precise control over the direction of the blade (especially important for high cutting) thus reducing bending. The base pole has a pole-end shock absorber and comfortable rubberized overgrip. The Longboy also features a dual locking system which allows 100% of the effort at the handle to be effectively transferred to the blade up to 21 feet away. Spring-loaded locking buttons allow multiple length adjustments and safety friction clamps hold the extensions firmly in place. Equipped with an innovative blade cover that securely locks to the lower pole when blade is folded. The 14-1/5˝ impulse-hardened curved blade has precision-ground, razor-sharp teeth with four cutting angles for fast, clean and extremely smooth cutting action. Yellow rigid-plastic blade cover is included. Limited lifetime warranty from the manufacturer. **Extension Range:** 4.7´ to 12´.

Silky Longboy 12´ Telescoping Pole Saw	6 lbs.	**81208**	**$239.95**
Replacement Blade for Silky Longboy Pole Saw	5 oz.	**81209**	**$48.95**

2 Silky Hayate Telescoping Pole Saws
8076

Strongest and fastest telescoping pole saw available on the market today.

Super efficient, state-of-the-art pole saw features an oval-shaped aluminum telescoping pole. Available 16- and 20-foot models. Each model features a 16.54˝ high-tech curved blade with 5.5 teeth per inch, a comfort-grip rubber covered handle, and a cushion tip to help reduce pole damage.

Silky Hayate 16´ Telescoping Pole Saw	X	7 lbs.	**81266**	**$292.95**
Silky Hayate 20´ Telescoping Pole Saw	X	9 lbs.	**81236**	**$361.95**
Replacement Blade for Silky Hayate Pole Saws		10 oz.	**81237**	**$85.95**

Silky Hook Fox for Silky Hayate, Hayauchi and Longboy Pole Saws
8076

Attach to pole saws for hanging on the branch or pulling the branch down. Features built-in carabiner hole and two notches for advancing climbing rope. Chrome-plated steel.

Silky Hook Fox	8 oz.	**81084**	**$33.89**

3 Silky Hayauchi Telescoping Pole Saws
6695

#1 Selling Pole Saw in the World

6.5 Teeth per 1.2˝. Blade cutting length of 15.4˝. Features an upper and lower sickle. Use upper sickle to cut vines and lower sickle to undercut bark. Lower sickle provides clean cut without damaging tree, while upper sickle prevents blade from slipping off limb. Blade can be adjusted to two different angles for lower or higher cutting. Extension pole constructed of aluminum alloy and race track-shaped for precise control of the direction of the saw blade and to reduce bending of the pole. Safety clamps hold extensions firmly in place. Push buttons make multiple length adjustments easy. Rubber hand-grip. Choose from the 16 ft. length with 2 pole extensions (3 sections total) or the 20.5 ft. length with 3 pole extensions (4 sections total). Plastic sheath for blade included.

Silky Hayauchi 16´ Pole Saw	X	6 lbs.	**81082**	**$233.95**
Silky Hayauchi 20.5´ Pole Saw	X	7 lbs.	**81083**	**$280.95**
Silky Hayauchi Replacement Blade		1 lb.	**81098**	**$83.95**

Silky Sintung 50 Lopper Head for Hayauchi Pole Saw

Designed to fit Silky's Hayauchi pole, this ratchet-operated lopper head accessory offers precise, easy pruning of branches up to 2˝ diameter. The high carbon steel cutting blade has been fully heat-treated and Teflon-S coated to ensure smooth cutting. Other features include a double pulley system and a 4-position ratchet mechanism that allows lopping of thick branches with minimal effort. Comes with a tough, protective draw-string pouch.

Silky Sintung 50 Lopper Head for Hayauchi Pole Saw	3 lbs.	**81004**	**$71.95**

Manufacturer's Warning: Do not use aluminum pole saws around electrical power lines or equipment. Electrical shock may result. Incorrect use of the pole saw may cause injury.

X Items 60˝ or more require an additional handling charge.

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JAMESON

1 Jameson Pole Saw Head
7753

The low profile design of this lightweight, aluminum saw head maneuvers easily in dense foliage. Hook pulls loose limbs and branches free. Snaps into Jameson fiberglass poles for a secure connection. Mounting pin allows easy blade replacement without tools. Works with all blades on this page.
Dimensions: 5˝W x 2˝D x 9˝H.

Jameson Pole Saw Head	12 oz.	**81128**	**$19.95**

2 Jameson® Barracuda™ Tri-Cut Pole Saw Blades
3787

Designed to meet the demands of professional arborists! These tri-cut saw blades are hard-chrome plated with impulse hardened teeth and provide a quicker, cleaner cut with less wear on the blade than traditional blades.

13˝ Tri-Cut Saw Blade	5 oz.	**81316**	**$16.25**
13˝ Tri-Cut Saw Blade with Hook - Prevents slipping off or pulling out of cut; pulls small branches or vines.	5 oz.	**81315**	**$23.95**
16˝ Tri-Cut Saw Blade	7 oz.	**81318**	**$19.50**
16˝ Mammoth Tri-Cut Saw Blade - Wider, thicker blade is more rigid than typical 16˝ blades.	9 oz.	**81317**	**$29.95**

Silky — Made in Japan

3 Silky Sawhead Kit with Hayauchi Blade
4711

Now you can have the cutting power of Silky on your fiberglass poles. Kit comes with a pole saw head and 15.4˝ HAYAUCHI Blade. The male adapter allows quick change on your fiberglass poles.

Silky Sawhead Kit with Hayauchi Blade	2 lbs.	**81162**	**$101.95**
Silky Hayauchi Replacement Blade	1 lb.	**81098**	**$83.95**
Belted Scabbard for Silky Hayauchi Sawhead	1 lb.	**81204**	**$36.95**

Warning! Not for use around energized lines.

4 Silky Sawhead Kit with Ibuki Blade
4712

Made in Japan

For use with your fiberglass poles. Pole saw head and 15-1/3˝ IBUKI Blade come with a male adapter that allows quick change on your fiberglass poles.

Silky Sawhead Kit with Ibuki Blade	1 lb.	**81168**	**$91.95**
Silky Ibuki Replacement Blade	8 oz.	**81238**	**$69.95**
Belted Scabbard for Silky Ibuki Sawhead	14 oz.	**81177**	**$28.95**

Warning! Not for use around energized lines.

SNAP-CUT QUALITY SINCE 1850

5 Snap-Cut® No. 20 Pole Pruning Saw
1723

Durable, 16˝ saw blade adjusts to three different positions on the aluminum head. Large hook for pushing branches, raising ropes. Built-in paint brush holder for applying tree wound paint. Sawhead only. Order adapter separately.

Saw Head with 16˝ Blade	12 oz.	**81048**	**$26.25**
		3+	**$24.25**
Jameson Fiberglass Pole Adapter for Tree Trimmers 81048 & 81030	6 oz.	**79902**	**$8.25**
Replacement 16˝ Snap-Cut Blade	6 oz.	**81049**	**$13.95**
		6+	**$12.95**
Replacement 15-1/2˝ Fanno Hook-type Blade	5 oz.	**81062**	**$18.50**
No. FI-1311 Replacement Tri-Edge Blade	5 oz.	**81277**	**$17.95**
		6+	**$16.25**
Replacement 13˝ Corona Razor Tooth Blade	8 oz.	**81271**	**$22.75**
		6+	**$20.25**

6 Pole Saw Sheaths
1717

Each sheath has a full length 5/8˝ thick welt and nickel-plated rivets at top and bottom. Sheath is secured to blade by a strap which has eight hole adjustments.

Fits Snap-Cut® Pole Saw Heads and Fanno 13˝

Available in natural top grain steer hide leather or black rubberized belting. Sheaths are 16˝L, 2-7/16˝W at the butt, and 1˝W at the tip.

Leather Sheath	13 oz.	**27273**	**$25.50**
Black Rubberized Belting Sheath	14 oz.	**27274**	**$15.95**

For Aazel and Fanno 16-1/2˝ Saw Heads

Black Rubberized Belting Sheath, 19˝L, 3-1/4˝W at the butt, and 3/4˝W at the tip.

Black Rubberized Belting Sheath	1 lb.	**27215**	**$15.95**

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JAMESON

1 Jameson Heavy Duty Pruner Heads
2130

Features include beveled hook edge for dual cutting action, recessed nut and bolt, and forged steel arm, blade, and hook for durability. Standard fixed pulley or swivel pulley model.

JA-14 1.25″ Diameter Cutting Capacity Pruner Head with Standard Fixed Pulley (Order rope and adapter separately.)	2 lbs.	**81186**	**$53.75**
JA-14 1.25″ Diameter Cutting Capacity Pruner Head Package with Adapter and 20′ Polyester Rope with Wooden Handle	3 lbs.	**81173**	**$72.25**
JA-14S 1.25″ Diameter Cutting Capacity Pruner Head with Swivel Pulley (Order rope and adapter separately.)	2 lbs.	**81187** 3+	**$61.25** **$58.75**
JA-14S 1.25″ Diameter Cutting Capacity Pruner Head Package with Adapter and 20′ Polyester Rope with Wooden Handle	3 lbs.	**81174**	**$79.75**
JA-34DP 1.75″ Diameter Cutting Capacity Big Mouth Pruner Head Package with Adapter and 20′ Polyester Rope with Wooden Handle	3 lbs.	**81189**	**$89.50**
Replacement 5/16″ x 20′ Polyester Rope with Wooden Handle	8 oz.	**81019**	**$9.95**
Jameson Fiberglass Pole Adapter for Pruner Head 81186 & 81187 and Marvin Models	6 oz.	**79904**	**$13.25**
Pruner Head Cover for Jameson Heavy-Duty Pruner Heads	3 oz.	**81140**	**$12.25**
Replacement Blade for JA-14/14S	3 oz.	**81184**	**$17.15**
Replacement Spring for JA-14/14S	2 oz.	**81182**	**$3.80**

2 Jameson PH-11 Tree Trimmer Head
1724

Cuts limbs up to 1″ in diameter. Iron pruner has steel chain working through a ball bearing pulley for a powerful "center-cut" action. Trimmer head only.

Trimmer Head (Order rope and adapter separately)	2 lbs.	**81030**	**$31.95**
Replacement 5/16″ x 20′ Polyester Rope with Wooden Handle	8 oz.	**81019**	**$9.95**
Jameson Fiberglass Pole Adapter for Tree Trimmers 81048 & 81030	6 oz.	**79902**	**$8.25**

CORONA
SEASON AFTER SEASON

3 Corona® Professional Tree Pruner Head
1722

Compound leverage dual pulley design lets you cut limbs up to 1-1/2″ diameter with ease. Hook, blade and lever arm are made of forged steel for strength and durability. Includes 15.5′ of 3/8″ dia. polyester rope. Order adapter below.

Pruner Head with Rope and Handle	3 lbs.	**81020** 2+	**$104.25** **$100.75**
Replacement 5/16″ x 20′ Polyester Rope with Wooden Handle	8 oz.	**81019**	**$9.95**
Jameson Fiberglass Pole Adapter For Tree Pruner Head 81020	6 oz.	**79905**	**$15.50**
Replacement Pruner Blade	4 oz.	**81075**	**$23.95**
Replacement Spring	1 oz.	**81076**	**$3.90**

Need help choosing the correct saw head/blade/adapter? Call the experts in our tech department at 800-430-5566.

81187

1

81189

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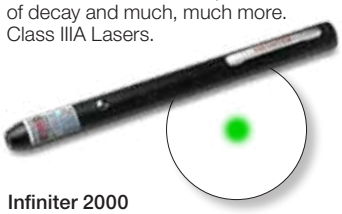
Treekote Pruning Tool and Saw Treatment
1968

Use to clean pruning tools and saws before cutting different trees or shrubs to prevent the spread of harmful pathogens that cause diseases such as Oak Wilt and Dutch Elm. Also lubricates cutting surfaces and helps protect against rust and corrosion.

11 oz. Aerosol 15 oz.	Ⓐ	**81290** 12+	**$12.75** **$12.10**

Green Laser Pointers
8107

Use these super-powerful green laser pointers to propose cable locations, branches to be pruned, a crotch for throw line, hazards such as bees or hollows, areas of decay and much, much more. Class IIIA Lasers.



Infiniter 2000

Features include aluminum construction with thin rubber coating and a convenient, push-button switch. Class III A laser. FDA Approved.

Wavelength: 532nm. **Range:** 1,000 yards. **Dimensions:** 6.4″ x 0.50″. **Batteries:** 2 AAA (included, last up to 4 hours).

Infiniter 2000 Green Laser Pointer 6 oz.	Ⓡ	**02471**	**$74.95**

GreenBeam 50

Made of aerospace grade aluminum, this tactical laser pointer was designed with the working environment of the military in mind. True daylight visibility allows rapid deploying teams to accurately communicate critical target and obstacle positions. Class III A laser. CE FDA Approved.

Wavelength: 532nm. **Range:** Daytime, 100 meters; Nighttime, 1 mile. **Dot Size:** Smaller than 2″ precision dot at 100 yards. **Shock-Resistant and Waterproof:** up to 20 meters. **Dimensions:** 7.5″L x 1″W x 0.75″H. **Batteries:** 2 AA (included, last up to 6 hours).

BeamShot GreenBeam 50 Laser Pointer 6 oz.	Ⓡ	**02473**	**$99.95**

Ⓡ Restricted. Cannot be sold to Germany.
Ⓐ Extra Charge if Shipped by Air. See Shipping Information for details.

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Pruner & Pole Saw Extension Poles
1716

1 Wood Poles

Poles fit Snap-Cut models. **Note:** Drilling required for assembly.

1-1/4″ Dia. x 5-3/4′L Spruce Head Pole For Snap-Cut No. 11 (81030) and No. 20 (81048)	X	1 lb.	**81050** 6+	**$19.75** **$17.50**
1-1/4″ Dia. x 6′L Spruce Extension Pole For 81050 Head Pole	X	2 lbs.	**81051** 6+	**$21.95** **$20.50**
1-1/4″ Dia. x 12′L Single Section Hemlock Head Pole For use with Snap-Cut No. 11 (81030) and No. 20 (81048). Fts head pole directly. Non-stackable.	F	3 lbs.	**81052** 6+	**$23.50** **$21.95**

2 Jameson Fiberglass Poles

1-1/4″ Diameter, hollow-core, fiberglass poles are available in 6′ and 8′ lengths. Choose from the heavy duty yellow poles or the durable yet lightweight green landscape poles. Order required adapter separately below.

1-1/4″ Dia. x 6′L Fiberglass Extension Pole	X	2 lbs.	**79900** 6+	**$34.95** **$32.75**
1-1/4″ Dia. x 8′L Fiberglass Extension Pole	X	3 lbs.	**79901** 6+	**$43.95** **$41.25**
1-1/4″ Dia. x 6′L Green Landscape Fiberglass Extension Pole	X	2 lbs.	**79910**	**$25.70**
1-1/4″ Dia. x 8′L Green Landscape Fiberglass Extension Pole	X	2 lbs.	**79911**	**$27.95**

3 Jameson JE Series Foam Core Dielectric Fiberglass Poles

Foam core prevents moisture build up inside the pole and adds extra hoop strength and rigidity. Every JE Series pole is individually dielectrically tested to 100KV per foot for five minutes.

1-1/4″ Dia. x 6′L JE Series Foam Core Pole	X	2 lbs.	**79920**	**$60.95**
1-1/4″ Dia. x 8′L JE Series Foam Core Pole	X	3 lbs.	**79921**	**$74.50**

4 Jameson B-Lite Fiberglass Poles
1716

The lightweight powerhouse for tree trimming! These thin-walled poles are lightweight and easy to control resulting in less fatigue and easier handling for the user. The poles features a durable, high gloss enamel coating for long life, easy cleaning, and for the prevention of fiber bloom. Jameson's heavy-duty aluminum ferrules make them interchangeable with Jameson's other poles. Batch tested to 100KV per foot for five minutes.

6′ Pole, Jameson B-Lite Fiberglass Pole	X	2 lbs.	**79922**	**$66.25**
8′ Pole, Jameson B-Lite Fiberglass Pole	X	2 lbs.	**79923**	**$83.25**

5 Jameson Double Lock™ Fiberglass Telescoping Poles
1716

An internal stop prevents pole separation when fully extended.

6′ to 12′ Telescoping Pole	X	4 lbs.	**79916**	**$66.50**
7′ to 14′ Telescoping Pole	X	4 lbs.	**79917**	**$74.75**

Pruner & Pole Saw Extension Pole Adapters
1716

Note: Drilling required on assembly.

Jameson Fiberglass Pole Adapter for Tree Trimmers 81048 & 81030 6 oz.	**79902**	**$8.25**
Jameson Fiberglass Pole Adapter for Pruner Head 81186 & 81187 and Marvin Models 6 oz.	**79904**	**$13.25**
Jameson Fiberglass Pole Adapter For Tree Pruner Head 81020 6 oz.	**79905**	**$15.50**

Jameson Wire Raising Tool
1716

Plated steel, fits Jameson poles without an adapter and can be used for laying up strand, telephone cable, and coaxial cable.

Jameson Wire Raising Tool	1 lb.	**79906**	**$16.25**

F Ships Motor Freight. See Shipping Information for details.
X Items 60″ or more require an additional handling charge.

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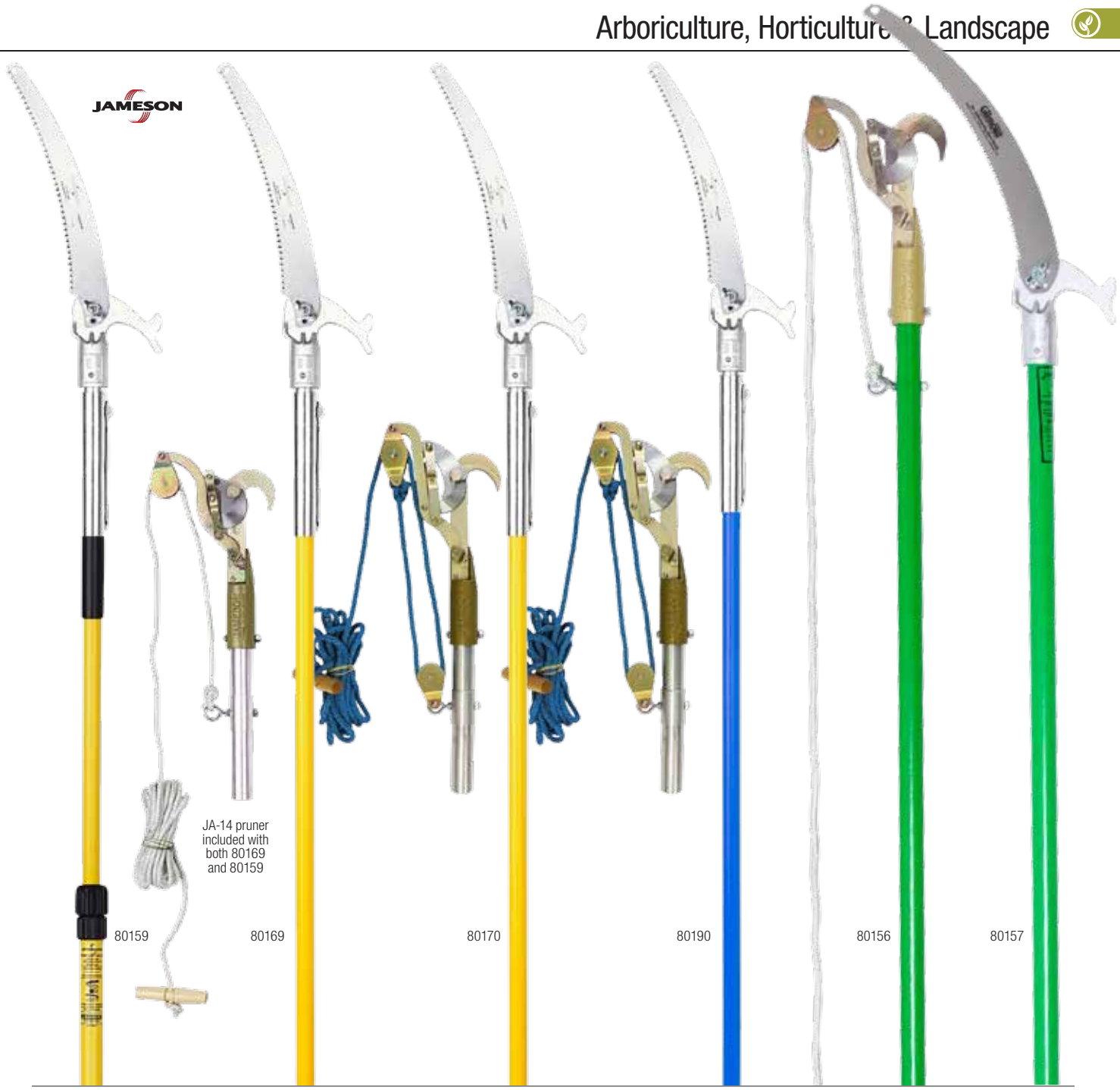

Jameson Pruner and Saw Head Kits

3787

Telescoping Pole Saw Package with Saw and Pruner Kit

Kit includes one 6´ - 12´ Double Lock® Telescoping Pole with female ferrule, one JA-14 Pruner with adapter and rope, and one 13˝ Tri-Edge saw blade with pole saw casting and adapter.

Telescoping Pole Saw Package with Saw and Pruner Kit
9 lbs. X **80159** **$156.95**
3+ **$148.25**

Jameson Pro Pruner/ Saw Package

Kit includes one 6´ extension pole, one 6´ base pole, one JA-14 pruner with rope and adapter, one 13˝ Tri-Cut saw blade, and one pole saw head with adapter.

Jameson Pro Pruner/ Saw Package
10 lbs. X **80169** **$153.25**
3+ **$145.25**

Jameson Big Mouth Pruner/Saw Package

Kit includes one 6´ extension pole, one 6´ base pole (select from standard fiberglass or B-Lite), one JA-34 double pulley Big Mouth Pruner with rope and adapter, and one pole saw casting with 16˝ Tri-Edge blade and adapter.

Jameson Big Mouth Pruner/Saw Package with Fiberglass Poles
10 lbs. X **80170** **$164.75**

Jameson Big Mouth Pruner/Saw Package with B-Lite Poles
9 lbs. X **80190** **$254.75**

Model JA-14 Pruner Kit

1-1/4˝ Cutting Capacity

Kit includes heavy duty pruner head with a 1-1/4˝ diameter cutting capacity, three 6´L x 1-1/4˝ diameter fiberglass poles, and rope.

Model JA-14 Pruner Kit
9 lbs. X **80156** **$129.50**

Model 20 Saw Head Kit

Professional pole saw head kit includes a durable cast aluminum saw head with a 16˝ curved tri-edge saw blade and three 6´ x 1-1/4˝ diameter fiberglass poles.

Model 20 Saw Head Kit
8 lbs. X **80157** **$88.95**
3+ **$85.75**

X Items 60˝ or more require an additional handling charge.

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Weaver Bungee Chainsaw Strap
7787

1-3/16″W double box-stitched nylon webbing straps with 1″ elastic. Heat-sealed ends help prevent fraying, and a half twist in the loop end helps keep equipment hanging straight. 30″L at rest and 45-1/2″L when fully extended. Welded nickel plated rings are 2″ in diameter. Non-rust manganese bronze 225 snap is 4-1/4″L. Orange.

Bungee Chainsaw Strap 9 oz.	**27147**	**$19.95**

Caution: Not intended for breakaway.

Buckingham® Tear Away Chainsaw Lanyard
6854

Tear away safety pack activates when 200 lbs. of force is applied. If dropped during use, saw falls below your feet without falling to the ground. Built-in bungee measures up to 50″ when fully extended for ample reach when cutting. 1-1/8″ Ring lets you attach lanyard to your saddle, while a 1-3/4″ ring allows you to suspend the saw on the saddle. Not designed for use with chainsaws weighing more than 15 lbs. High-visibility yellow.

Buckingham Tear Away Chainsaw Lanyard 5 oz.	**27151**	**$26.75**

Chain Saw Strap
1673

Half twist keeps equipment hanging straight.

Made of 1″ wide nylon webbing and double box stitched with heat sealed ends to prevent fraying. The 49″ adjustable strap is actually a 12″ strap with an extension which has a boat snap at the end. The adjustable strap allows you to let the chainsaw down out of your way while climbing (49″) or keep it at your waist while working (12″). Colors may vary.

49″ Adjustable Chain Saw Strap 9 oz.	**27282**	**$11.75**

Oregon Chain Saw Chains
page 115

Oregon PowerNow 40V MAX Cordless Chain Saw
4764

Always ready! Designed with all the battery muscle needed to get the job done. Runs cleaner, quieter, and is free from the hassles of gasoline or cords. Simply pull the trigger for an instant start, long run time and constant, no-fade power. 40V MAX Lithium Ion Battery holds a charge for months and provides high power for fast cutting with a 14″ bar. Other features include PowerSharp® System that sharpens on the saw, on the job, in seconds; low noise and silent between cuts; plus, it is lightweight and balanced with low vibration.

Bar Length: 14″. **Chain/Pitch/Gauge:** PowerSharp® 3/8″ low profile, 0.050″ gauge. **Oil System:** Automatic oiler with 5.9 oz. tank capacity. **No Load Chain Speed:** 2350 FPM. **Weight:** 11 lbs. with 1.25 Ah battery pack; 12 lbs. with 2.4 Ah battery pack. **Battery Life:** approximately 1,000 charge/discharge cycles.

Chain Saw Kit with 1.25Ah Battery Pack	18 lbs.	**80175**	**$349.00**
Chain Saw Kit with 2.4 Ah Battery Pack	19 lbs.	**80176**	**$399.00**
Chain Saw (Tool Only)	15 lbs.	**80174**	**$249.00**
Replacement Chain, 14 inch (includes sharpening stone)	9 oz.	**80181**	**$35.00**
Replacement Guide Bar, 14 inch	1 lb.	**80182**	**$29.00**

Oregon PowerNow Battery Packs and Chargers
4764

Oregon PowerNow 40V MAX 1.25 Ah Battery Pack, Features 10 individual lithium ion cells.	2 lbs.	**80171**	**$99.00**
Oregon PowerNow 40V MAX 2.4 Ah Battery Pack, Features 20 individual lithium ion cells.	3 lbs.	**80172**	**$149.00**
Oregon Model C600 Battery Charger, Charge Time: approx. 210 minutes for a completely discharged 4.0 Ah Battery Pack; approx. 120 minutes for a completely discharged 2.4 Ah Battery Pack; approx. 60 minutes for a completely discharged 1.25 Ah Battery Pack.	2 lbs.	**80173**	**$59.00**
Oregon Model C750 Rapid Battery Charger, Charge Time: approx. 60 minutes for a completely discharged 4.0 Ah Battery Pack; approx. 30 minutes for a completely discharged 2.4 Ah Battery Pack; approx. 30 minutes for a completely discharged 1.25 Ah Battery Pack.	3 lbs.	**80180**	**$99.00**

Echo® CS-303T Chainsaw, 14″ Bar
7330

Built for professionals, this top handle chainsaw is dependable, easy starting, lightweight, and well-balanced! Features include a 30.1 cc professional-grade engine, a throttle lock for easy starting, an inertia brake chain, rubber isolation mounts for vibration reduction, dual bar studs, side access chain tensioner, replaceable nylon chain catcher, and a metal lanyard ring.

Bar Length: 14″. **Engine Size:** 30.1 cc. **Weight:** 7.7 lbs. **Fuel Tank Capacity:** 8.5 oz. **Chain Oil Capacity:** 5.1 oz. **Warranty:** 5-Year Consumer; 1-Year Commercial.

Echo CS-303T Chainsaw	12 lbs.	**80132**	**$364.50**
Replacement 14″ Bar	1 lb.	**80121**	**$47.25**
Replacement Chain for 14″ Bar	7 oz.	**80122**	**$14.25**

Echo® CS-355T Chainsaw, 16″ Bar
7330

The CS-355T is Echo's most advanced, powerful and ergonomically correct top handle saw ever produced! Designed based on the input of professional arborists, it features a 35.8cc professional-grade engine, compact size, a chain brake lever, an ergonomic handle for great operator comfort, a reduced effort starter, a purge bulb, a clutch-driven automatic adjustable oiler, a G-Force Engine Air Pre-Cleaner™, a removable palm rest which provides support to your hand and prevents slipping, and a swing-out lanyard.

Bar Length: 16″. **Engine Size:** 35.8 cc. **Weight:** 8 lbs. **Fuel Tank Capacity:** 11.2 oz. **Chain Oil Capacity:** 8.2 oz. **Warranty:** 1 Year.

Echo CS-355T Chainsaw	8 lbs.	**80131**	**$461.95**
Replacement 16″ Bar	1 lb.	**80126**	**$32.95**
Replacement Chain for 16″ Bar	8 oz.	**80127**	**$15.75**

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New! Oregon PowerNow 40V MAX Cordless Pole Saw
4764

This pole saw is powered by a 40V MAX Lithium Ion Battery that provides constant, no-fade cutting power when you need it! Using premium cell technology, the battery can hold its charge in storage for months and offers outstanding power for quick cutting with a high-speed chain. In addition to being four times quieter than a gas saw, this pole saw requires no warm-up, no gas-oil mixing, and no pull cords. The compact cutting end increases agility when making cuts, and the ergonomic mid-mount motor ensures better balance and reduced elevated weight. The extendable shaft telescopes from 7´3˝ to 10´4˝ without tools and provides approximately 14´ to 15´ of reach. An integrated branch hook lets you move debris as you work.

Bar Length: 8˝. **Chain/Pitch/Gauge:** # R34 3/8˝ Low Profile™ .043˝ gauge. **Extension Length:** 7´3˝ to 10´4˝. **Approximate Reach:** 14´ to 15´. **No Load Chain Speed:** 47.4 fps. **Weight:** 10.8 lbs. without battery; 13.5 lbs. with battery.

Oregon PowerNow 40V MAX Pole Saw Kit with 2.4 Ah Battery Pack	22 lbs.	**80163**	**$399.00**
Oregon PowerNow 40V MAX Pole Saw Kit with 4.0 Ah Battery Pack (A)	22 lbs.	**80164**	**$449.00**
Oregon PowerNow 40V MAX Pole Saw (Tool Only)	18 lbs.	**80165**	**$249.00**
Oregon PowerNow 40V MAX 1.25 Ah Battery Pack, Features 10 individual lithium ion cells.	2 lbs.	**80171**	**$99.00**
Oregon PowerNow 40V MAX 2.4 Ah Battery Pack, Features 20 individual lithium ion cells.	3 lbs.	**80172**	**$149.00**
Oregon PowerNow 40V MAX 4.0 Ah Battery Pack (A)	3 lbs.	**80166**	**$199.00**
Oregon Model C600 Battery Charger	2 lbs.	**80173**	**$59.00**
Oregon Model C750 Rapid Battery Charger	3 lbs.	**80180**	**$99.00**

New! TimberLine Saw Sharpener
4857

Provides you with professional sharpening results on your saw chain and keeps your saws cutting at peak performance! Every tooth is sharpened evenly with the carbide cutter fitted on a hand crank, so you get identical height, length and angle on each tooth for top cutting results. An adjustable stop or pawl pushes the chain forward into the carbide cutter setting the length of each cutting tooth. The solid platform acts as a fixed guide to sharpen each cutting tooth accurately on the chain with little or no deviation. Angles are set at a standard 30°. The TimberLine Saw Sharpener can be used on virtually all chainsaws. 3/8˝ Pitch requires 7/32˝ carbide cutter (or 13/64ths if the manufacturer suggests). .325˝ Pitch requires a 3/16˝ carbide cutter. 3/8˝ Low profile pitch requires a 5/32˝ carbide cutter. **Note:** Carbide Bits must be purchased separately.

TimberLine Saw Sharpener 1 lb.	**94500**	**$104.95**
5/32˝ Carbide Bit for 3/8˝ Low Profile Pitch 1 oz.	**94547**	**$24.95**
7/32˝ Carbide Bit for 3/8˝ Pitch 1 oz.	**94550**	**$24.95**
13/64˝ Carbide Bit for 3/8˝ Pitch 1 oz.	**94548**	**$24.95**
3/16˝ Carbide Bit for 0.325˝ Pitch 1 oz.	**94549**	**$24.95**
Angle Guides, 25° and 35°, Includes a 25° Angle Guide for hard, dense wood and a 35° Angle Guide for soft, dry wood. Hex wrench included. 1 oz.	**94505**	**$14.95**

Demonstration video available on our website.

Top Saw® Chainsaw Pocket Wrench
7725

All-in-one chainsaw tool! Features a large screwdriver, a T27 Torx for all bolts on a Stihl chainsaw, a small screwdriver, a 4 mm Allen Wrench for work on Echo and Husqvarna saws, a 13 mm (1/2˝) socket that will fit a bar nut on a half or full wrap handle Husqvarna saw, and deep sockets (19mm x 10mm and 21mm x 16mm) for the spark plug on all saws and a bar nut on a Stihl saw. Can also be used as a chainsaw file handle. Complete with a waterproof nylon sheath.

19mm x 10mm and 21mm x 16mm 1 lb.	**75191**	**$17.95**

(A) Extra Charge if Shipped by Air.

PFERD Chain Saw Files
7204

The high-precision spiral cut of these files provides outstanding sharpness and ultra-long tool life. Use for fast, score-free sharpening of saw chain teeth. Remove stock sparingly and without undue loads on the metal. Box of 6 files. Handles sold separately.

8˝L x 3/16˝Dia., Chain Pitch (Inches): 0.325. 6 oz.	**75156**	**$8.25**
8˝L x 7/32˝Dia., Chain Pitch (Inches): 3/8, 0.404, 7/16. 8 oz.	**75157**	**$8.25**
8˝L x 5/32˝Dia., Chain Pitch (Inches): 1/4, 0.370. 4 oz.	**75158**	**$8.25**
Wood Handle (ea.) 2 oz.	**75155**	**$2.75**

High Limb Chainsaw
1718

Cut branches as high as 30´ while standing on solid ground!

24˝ or 48˝ chain blade attached between two 25´ cords. Toss one end of cord is tossed over limb, position the chain blade, and cut by pulling cords back and forth. Includes weight pouch and instructions. Use 24˝ chain for limbs up to 8˝ diameter; 48˝ chain for limbs up to 10˝ diameter.

24˝ High Limb Chainsaw 2 lbs.	**81078**	**$28.75**
48˝ High Limb Chainsaw 2 lbs.	**81079**	**$42.25**

CheckSpark Engine Ignition Analyzer
4616

Tests for proper engine spark in cars, trucks, ATV's, chainsaws, power trimmers, and more!

CheckSpark safely and accurately tests for proper spark, shorted or fouled plugs, and open or broken spark plug wires. Using the patented gripper hook, connect the tester to the plug wire of a non-running engine and then crank the engine. One of three LED's will indicate the condition of the ignition system. CheckSpark can be used to test any two-stroke or four-stroke engine.

CheckSpark Engine Ignition Analyzer 5 oz.	**93037**	**$39.95**

TruFuel 50:1 Engineered Fuel/Oil
7712

The only engineered 2-cycle fuel ready to use - straight from the can! This high-performance, ethanol-free fuel is pre-mixed with the most advanced synthetic lubricant and performance enhancing additives available. Just pour it from the can into your 2-cycle equipment and go. No measuring, no mess! Remains fresh more than 2 years after opening the can due to its proprietary formulation. Case of six 32 oz. cans.

TruFuel, Case of 6 - 32 oz. cans 12 lbs. (R)	**93125**	**$35.50**

(R) Cannot ship by air

Forestry Suppliers Logger's First Aid Kits pages 117, 257 and 654

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STA-BIL® Fuel Stabilizer
7878

Designed for use in all 2-cycle and 4-cycle gasoline engines. Keeps fuel fresh for fast, easy starts even after storage and eliminates the need to drain fuel. It removes water to prevent engine corrosion and cleans carburetors and injectors. Protects engine from damaging gum, varnish, rust, and corrosion. Recommended for use at every fill-up.

16 oz. Bottle, Treats up to 40 gallons		
1 lb.	**93082**	**$9.75**
	12+	**$8.95**

STA-BIL® Ethanol Treatment
7877

Ideal for use in cars, trucks, and small engines, this treatment helps prevent corrosion caused by ethanol-blended fuels. The treatment works by removing water from fuel and cleaning fuel injectors, carburetors, and intake valves for improved overall performance. Recommended for use at every fill-up.

10 oz. Bottle, Treats up to 25 gallons		
10 oz.	**93101**	**$7.95**
	12+	**$7.25**

STA-BIL® Marine Formula Ethanol Treatment
7879

Protect your boat or other marine equipment from the adverse effects of ethanol-blended fuel! This special marine formula contains more than four times the fuel system cleaner and double the corrosion preventer of the regular STA-BIL formula. The treatment improves marine engine performance year-round by preventing corrosion caused by moisture and water attraction. Recommended for use at every fill-up.

8 oz. Bottle, Treats up to 25 gallons		
9 oz.	**93041**	**$9.75**
	8+	**$9.10**

Echo® Power Pruners™
7447

Model PPT-280 with Telescopic Shaft

Powerful, smooth-running 28.1 cc Power Boost Vortex™ engine provides plenty of cutting power! Other features include an overall length of 13′2″ for extra long reach (collapses to 9′4″), 12″ bar and chain, a side-access chain tensioning system for easier, safer chain tightening, a durable gear case cover for increased longevity, two guide bar studs, an adjustable automatic oiler system to keep the chain properly lubricated, an easy to grasp ergonomic handle with rubber over-mold for added comfort and improved handling, and a branch extractor for easy removal of troublesome branches.

Echo Model PPT-280	O	26 lbs.	**81003**	**$676.75**
4′ Extension Handle	X	5 lbs.	**81006**	**$113.50**
Replacement Cutting Bar		13 oz.	**81015**	**$27.50**
Replacement Cutting Chain		6 oz.	**81016**	**$12.25**

Echo® Power Pruners™
6861

Model PPT-266 With Telescopic Shaft

The choice for tree services and professional landscapers! The PPT-266 Power Pruner features a 25.4cc professional-grade two-stroke engine that provides plenty of cutting power. The i-30™ technology reduces starting effort by 30%, and a larger two-stage commercial air filter allows for improved filtration and even longer engine life. The pruner measures 107″ long (146″ extended), and the telescoping shaft has an easy-adjustment knob. A 4′ extension (sold separately) allows for even greater overhead reach. An upgraded chrome cylinder plating process ensures improved longevity in harsh conditions. The side-access chain tensioning system allows for easier, safer chain tightening. Other features include a durable gear case cover for increased longevity, an adjustable automatic oiler system to keep the chain properly lubricated, an ergonomic handle with rubber over-mold for superior comfort and improved handling, and a branch extractor for easy removal of troublesome branches.

Length: 107″ (146″ extended). **Engine:** air-cooled, two-cycle, single cylinder, gasoline engine. **Displacement:** 25.4cc. **Carburetor (with Purge Pump):** rotary. **Clutch:** centrifugal. **Fuel capacity:** 16.4 fl. oz. **Cutting head:** chainsaw type. **Bar:** Oregon 12″ sprocket. **Chain speed:** 2,000 ft. per minute. **Oiler:** gear driven, fully adjustable. **Oiler capacity:** 7.6 oz. Made in USA.

Echo Model PPT-266	O	28 lbs.	**81005**	**$616.50**
4′ Extension Handle	X	5 lbs.	**81006**	**$113.50**
Replacement Cutting Bar		13 oz.	**81015**	**$27.50**
Replacement Cutting Chain		6 oz.	**81016**	**$12.25**

TrakMats™ Ground Cover Mats
4564

Save expensive landscapes from vehicle damage!

These "Portable Roadway Systems" are lightweight mats designed to be handled by workmen in the field. Made from space-age composite materials, TrakMats are strong enough to carry heavy, rubber-tired vehicles without breaking, splintering, or folding up. Plus, they are rigid enough to spread weight over a wide area to prevent tire ruts, or vehicles from sinking. The light color also prevents heat from building up and burning the grass. TrakMats are best suited for situations where vehicles need to access an area of soft, unstable ground (mud, sand, or snow) quickly, a limited number of times, and for short distances (around 300 feet). Mats are 1/2″ Thick polyethylene with power cylinder traction.

44.5″ x 8′	3′ x 8′	3′ x 6′	22″ x 8′		Weight	Each	25+
22000					75 lbs.	**$238.95**	**$226.95**
	22001				59 lbs.	**$213.75**	**$202.95**
		22002			46 lbs.	**$166.95**	**$158.50**
			22003		38 lbs.	**$123.95**	**$117.75**
				22″ x 4′	Weight	Each	50+
				22005	19 lbs.	**$68.25**	**$62.75**

O Ships at Oversize rate. See Shipping Information for details.
X Items 60″ or more require an additional handling charge.

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Fairmont/Greenlee Hydraulic Cutting Tools

7202

Greenlee is well-known for delivering enhanced productivity and higher value with advanced, low-fatigue designs and unmatched quality.

Long Reach Chain Saws

Cut hard-to-reach branches from an aerial basket or from the ground. The Super Spool™ selector control allows for use on Open- and Closed-Center hydraulic systems. Insulated fiberglass extension tube, tested to meet OSHA Regulation 1910.269. Safety features include: two-step trigger, trigger guard, and fully covered sprocket guard. Anti-kickback chain and automatic chain oiler. Rugged high torque gear motor. Two models are available.

Cutting Capacity: 13″. **Flow Range:** 5-8 gpm. **Operating Pressure:** 1,000 - 2,000 psi. **Chain Size:** 0.325″ pitch. **Bar Gauge:** 0.058″.

75″ Long Reach Chain Saw	X	13 lbs.	**80110**	**$1765.00**
88.5″ Long Reach Chain Saw	X	14 lbs.	**80113**	**$1794.00**

Overhead Circular Saw

Use for high production utility line clearing and general tree clearing applications. The Super Spool™ selector control allows for use on Open- and Closed-Center hydraulic systems. Insulated fiberglass extension tube, tested to meet OSHA Regulation 1910.269. Safety features include: hand-stop collar, two-step trigger, trigger guard, and branch stop. Rugged motor. Angular head design makes flush cuts easier and directs chips away from the operator.

Cutting Capacity: 3.5″. **Blade Diameter:** 9″. **Flow Range:** 4-6 gpm. **Operating Pressure:** 1,000 - 2,000 psi. **RPM:** 5,250 rpm at 6 gpm. **Weight:** 9 lbs. **Overall Length:** 82″.

Overhead Circular Saw	X	12 lbs.	**80114**	**$1716.75**

Fairmont/Greenlee Accessories

HTMA Male Coupler 5 oz.	**80111**	**$35.95**
HTMA Female Coupler 8 oz.	**80112**	**$75.25**
Hydraulic Hose, 25′ 16 lbs.	**80116**	**$222.25**

Boom Mount Tool Holders

7358

Take the tools out of the bucket and mount them on the boom for safe, convenient access. Made from high impact plastic. Can be strapped to round or square booms.

Circular Saw Holder with locking straps and handle 9 lbs.	**79912**	**$209.95**
Long Reach Chainsaw Holder with locking straps and handle - Fits Greenlee Fairmont Style 9 lbs.	**79913**	**$212.25**
Hydraulic Pruner Holder with locking straps and handle 8 lbs.	**79914**	**$202.75**

X Items 60″ or more require an additional handling charge.

Lineman's Gloves

3511

Made by standard multiple-dip process – black rubber over red rubber. Wtih any significant physical damage from snagging or cutting, the black outer layer will be penetrated and the high visibility red interior warns you to replace the glove.

Size 10, Length: 14″, Test Class: 1, AC Max. Voltage 10KV, Use Voltage*: 7,500 1 lb.	**26952**	**$146.25**
Size 10, Length: 14″, Test Class: 2, AC Max. Voltage 20KV, Use Voltage*: 17,000 2 lbs.	**26954**	**$198.25**

*AC maximum Use voltage in accordance with ASTM D120-87.

Low Voltage Gloves

3512

Made of natural rubber, these gloves are for use on circuits of up to 1,000 volts. Widely used in meter departments and other low voltage applications.

Class number: 0. **Test voltage:** 5KV. **AC Maximum Use Voltage in accordance with ASTM specifications D120-87:** 1,000 volts. 11″ long.

Size 9 11 oz.	**26971**	**$76.25**
Size 10 12 oz.	**26972**	**$76.25**

Jameson Adjustable Chainsaw Scabbard

1721

Keep chainsaws off the bucket floor!

This high-impact plastic scabbard's special offset keeps the saw muffler away from the scabbard. Adjusts to fit up to a 6″ bucket flange size. 35-1/4″ x 7-1/2″ x 4-1/2″.

Jameson Adjustable Chainsaw Scabbard 6 lbs.	**79909**	**$175.90**

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Samson Pre-Spliced Vertical Lifeline with Safety Snap Hook
7031

Made of premium 3-strand nylon heat-set by the exclusive Thermo-Set™ process. Each rope strand is infused with urethane coating for complete protection from the center to the surface of each strand. Excellent abrasion resistance and firmness. Lifelines conform to ANSI Z359.1-1992 and meet all California and Federal OSHA requirements. Round thimble with safety hook on one end, other end heat-sealed and covered with shrink tube. Shrink tube protects splice area. Permanent safety rating tag protected by clear shrink tube. **Minimum strength rating:** Rope, 10,800 lbs.; Snap hook, 5,000 lbs.

5/8″ x 50′ Pre-Spliced Vertical Lifeline with Safety Snap Hook 7 lbs.	**27155**	**$127.25**
5/8″ x 100′ Pre-Spliced Vertical Lifeline with Safety Snap Hook 16 lbs.	**27156**	**$178.75**

Miller® Rope Grab
1697

Engineered for simple three-step operation!

Provides protection and freedom of movement. Install on existing line and attach to safety belt with optional 6′ energy absorbing lanyard. Can be used with 5/8″ or 3/4″ synthetic fiber line. Solid steel, 3″ x 4″ x 8″.

Miller Rope Grab 2 lbs.	**27220**	**$176.50**

Miller® Titan™ Full-Body Harnesses
2541

These harnesses are made of lightweight, durable polyester webbing for all day comfort and dependability. Fully adjustable, each features a sliding back D-ring, a sub-pelvic strap, and mating shoulder strap buckles, leg strap buckles, and chest strap buckle. Each harness meets applicable OSHA, ANSI, and CSA standards. Available with a single dee ring (back) or 3 dee rings (back and sides).

Single Dee Harness 3 lbs.	**27310**	**$50.95**
Three Dee Harness 3 lbs.	**27311**	**$59.95**

Miller® Duraflex Full-Body Harnesses
1685

Harness material stretches as you move for ultimate comfort!

Blends a synthetic elastic material into a tough nylon and polyester Teflon®-coated webbing which conforms to your shape and stretches with your every movement. Features include pull-up design, friction buckle shoulder straps; tongue buckle leg straps with Type 19 standard nylon webbing; and a lanyard clip. Meets OSHA 1926.502, OSHA 1910.66, ANSI A10.14-1991, ANSI Z359.1, and CSA Z259.10. Universal size fits most (M - XL). Available in two styles: a single D-ring harness with a single D-ring in the back, or a three D-ring harness with a single D-ring in the back and two side D-rings.

Single D-Ring Full-Body Harness 4 lbs.	**27243**	**$141.25**
Three D-Ring Full-Body Harness 4 lbs.	**27244**	**$153.95**

Miller® Versalite Full-Body Harnesses
1681

Provides maximum safety, comfort, reliability, and ease of use!

Features include Type 7 (Duralite) webbing, color-coded straps, forged steel sliding back D-ring, a back strap to prevent back D-ring from sliding down too far, pull-up shoulder straps, lightweight mating buckles, and Type 19 webbing with tongue buckle leg straps. Meets OSHA 1926.502-1995, OSHA 1910.66-1989, OSHA 1910.128-131, and ANSI A10.14-1991. Universal size fits most (M - XL). Available in two styles: a single D-ring harness with a single D-ring in the back, or a three D-ring harness with a single D-ring in the back and two hip D-rings.

Single D-Ring Full-Body Harness 3 lbs.	**27245**	**$122.25**
Three D-Ring Full-Body Harness 4 lbs.	**27246**	**$134.50**

Miller® Rope Grab and Lanyard
1698

For use with an independent life line.

Easily installed on line. Can be moved up or down line easily, yet locks instantly when activated by a fall. Can be used with 5/8″ or 3/4″ synthetic fiber line. Complete with 4′ shock absorbing lanyard and double locking snap hook.

Miller Rope Grab and Lanyard 3 lbs.	**27227**	**$205.75**

Miller® Shock Absorbing Lanyard
1677

Built-in shock absorbing system greatly reduces the arresting force of a fall. 6′ Long, with locking snaps at each end. Bright yellow.

Miller Shock Absorbing Lanyard 2 lbs.	**27221**	**$83.75**

Miller® Titan™ Cross Arm Strap
2542

This 1-3/4″ polyester webbing cross-arm strap features a D-ring which slips through a web loop. Use in conjunction with a lanyard and full-body harness to form a Personal Fall Arrest System for safety on your jobsite. **Length:** 6′.

Titan Cross Arm Strap 14 oz.	**27219**	**$29.75**

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Elk River Eagle Tower Harness

4489

Features a sliding D-ring at the center of the back, a chest-high front D-ring, a D-Ring on each hip, a D-ring on each end of the seat strap, black 1-3/4″ nylon leg straps, red 1-3/4″ polyester shoulder straps, breakaway lanyard clips, shoulder pads, tongue buckles on leg straps, removable tool belt, 1-3/4″ belt with 5″ padded backpad, two accessory rings attached to the center-back of the backpad, and a carry-all bag. Made of polyester and nylon. Meets all applicable ANSI, CSA and OSHA requirements.

Medium, 32″ to 42″ Waist	8 lbs.	**27236**	**$319.25**
		2+	**$297.50**
Large, 40″ to 48″ Waist	8 lbs.	**27237**	**$319.25**
		2+	**$297.50**

New! French Creek Compliance-In-A-Bag Fall Protection Kit

4898

This fall protection kit complies with OSHA 1926.502. The kit includes a 3-Point adjustment full body harness, a 6′ shock absorbing web lanyard with #74N locking snaps on each end, and a 19″ x 19″ x 9″ carry bag. The 3-point adjustment full body harness features pass-thru leg and chest buckles, EZ-Slide back D-ring, perfect-fit chest strap with easy to use pass-thru buckle, additional rear lumbar straps, and hardware plated to ASTM standards for corrosion resistance. Meets or exceeds all applicable fall-arrest systems standards including OSHA, ANSI and the stringent ANSI Z359.

Small/Medium - Weight: 130-230 lbs.; Height: 4′10″ - 6′3″	5 lbs.	**27100**	**$99.95**
Medium/X-Large - Weight: 180-320 lbs.; Height: 5′ - 6′6″	5 lbs.	**27101**	**$99.95**

New! French Creek Roofer's Fall Protection Kit

4899

This all-in-one residential roofer's kit meets the new OSHA standards for fall protection on residential roofs. Kit includes: a reusable hinged anchor (attached with nails to peak of roof), a 50′ rope lifeline, a 3′ shock absorbing lanyard, a manual rope grab (permanently attached to the lanyard), a universal-size full-body harness, and a storage bucket with a lid.

Small/Medium - Weight: 130-230 lbs.; Height: 4′10″ - 6′3″	15 lbs.	**27103**	**$144.95**
Medium/Extra-Large - Weight: 180-320 lbs.; Height: 5′ - 6′6″	15 lbs.	**27104**	**$144.95**

Snaps and Hooks page 268

Ladder Hook

3757

Clips on ladder rung for fall protection. Meets or exceeds strength standards for OSHA, NFPA, and ANSI.

Minimum tensile strength: 5,400 lbs. **Length:** 9″. **Width:** 4.5″. **Bowl depth:** 1.625″. **Latch to bowl:** 1.625″. **Opens to:** 2.25″. **Eye:** 0.75″.

Ladder Hook	1 lb.	**27356**	**$22.75**

Elk River 6′ Adjustable Web Lanyard

4492

Made of 1″ nylon webbing with an adjustable 3/4″ throat opening Centurion auto-lock snap hook on each end. Meets applicable ANSI, CSA, and OSHA requirements.

6′ Adjustable Web Lanyard	2 lbs.	**27234**	**$60.50**

Elk River 6′ Flex NoPac Shock Absorbing Lanyard

4491

Features 1-1/2″ Elasticized webbing, 100% tie-off, twin leg, a 3/4″ throat opening Centurion auto-lock snap hook on label end, and a 2-1/2″ throat opening Centurion auto-lock rebar hook on each leg. Lanyard stretches from 4.5′ to a maximum of 10′. Made of polyester. Meets applicable ANSI, CSA, and OSHA requirements.

6′ Flex NoPac Shock Absorbing Lanyard	6 lbs.	**27225**	**$104.25**

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Telesteps® Automatic Telescoping Ladders

Manufacturer's Warranty 1 Year

8569

Portable in the true sense of the word! Telesteps Ladders are compact enough to store in the trunk of your car or behind the seat in your truck. Select the desired length for the job at hand. TELESTEPS® meet applicable American National Standards Institute (ANSI) and Occupational Safety and Health Administration (OSHA) requirements. In addition, they have a 12-month warranty from the manufacturer.

12.5´ Telescopic Ladder – Same climbing height as a 16´ extension ladder. Extends from 30˝ to 12.5´. Rating: "Type1" 250 lbs.	25 lbs.	**90905**	**$267.75**
12.5´ PRO Telescopic Ladder – Wide steps. Same climbing height as a 16´ extension ladder. Extends from 30˝ to 12.5´. Rating: "Type1A" 300 lbs.	27 lbs.	**90906**	**$310.25**
14.5´ PRO Telescopic Ladder – Wide steps. Same climbing height as an 18´ extension ladder. Extends from 33˝ to 14.5´. Rating: "Type1A" 300 lbs.	34 lbs.	**90907**	**$363.50**

Stokes Aluminum Tripod Ladders

8285

3˝ wide steps. lightweight tempered structural aluminum construction, wide base for stability, narrow top for access into tree, strong 3˝ wide side rail, sturdy tubular back leg, heavy-duty cradle helps keep the back leg centered while carrying, steps with extruded ridges for slip resistance, steps and side rail have heavy aluminum bead at stress points for strength, and a built in water channel in the side rail. 5/16˝ Grade-5 steel bolts, steel brushings at back leg pivot point. Solid aluminum aircraft rivets throughout. **Maximum load:** 250 lbs. up to 12 feet.

6´	F	17 lbs.	**90899**	**$142.00**
8´	F	21 lbs.	**90900**	**$171.00**
10´	F	26 lbs.	**90901**	**$200.00**
12´	F	33 lbs.	**90902**	**$251.00**
14´	F	38 lbs.	**90903**	**$277.00**
16´	F	45 lbs.	**90898**	**$325.00**

Klein® Tree & Pole Climbers

1664

Adjustable steel climbers with replaceable gaffs designed for maximum safety when climbing. Nylon web straps are adjustable in 1/4˝ increments from 15˝ to 19˝. Complete with climbing pads, two calf straps, and two ankle straps (26˝).

Klein® Tree Climbers Set with 2-3/4˝ Gaffs

Tree Climbers Set - with 2-3/4˝ gaffs	6 lbs.	**27190**	**$307.75**
		3+	**$286.50**
Replacement Tree Gaffs, 2-3/4˝	13 oz.	**27201**	**$85.50**

Klein® Pole Climbers Set with 1-1/2˝ Gaffs

Pole Climbers Set - with 1-1/2˝ gaffs	6 lbs.	**27191**	**$296.50**
		3+	**$274.95**
Replacement Pole Gaffs, 1-1/2˝	9 oz.	**27202**	**$73.75**

Tree & Pole Climbers Replacement Parts and Accessories

One Pair L-Shaped Climber Pads	13 oz.	**27284**	**$37.50**
One Pair 23˝ Nylon Calf Straps	4 oz.	**27141**	**$15.25**
One Pair 26˝ Nylon Calf Straps	7 oz.	**27142**	**$16.50**
One Pair 26˝ Nylon Ankle Straps with Split Ring	5 oz.	**27143**	**$21.95**

Swiss Tree Grippers

1660

Tree Bicycles

Move safely up, down, or around a tree without damaging the bark! Your hands are left free to work. Constructed of durable, high quality materials for maximum user safety. Use to climb trees up to 26˝ in diameter. Includes two suspension assemblies, a large one for the right foot and a small one for the left foot.

Swiss Tree Grippers	O	31 lb.	**27170**	**$2437.00**

Note: Safety harness and flipline should be ordered in addition to the Swiss Tree Grippers. Call for details.

F Ships Motor Freight. See Shipping Information for details.
O Ships at Oversize rate. See Shipping Information for details.

Replacement Parts for Swiss Tree Grippers

1660

#	Description	Left	Right	Either	Weight	SN	$
1	Left Foot Stirrup	•			3 lbs.	27171	$345.00
2	Left Foot Support Piece	•			1 lb.	27173	$216.95
3	Left Toe Strap	•			3 oz.	27175	$41.95
4	Left Instep Strap	•			2 oz.	27194	$53.50
5	Right Foot Stirrup		•		5 lbs.	27172	$345.00
6	Right Foot Support Piece		•		1 lb.	27174	$216.95
7	Right Toe Strap		•		3 oz.	27176	$41.95
7A	Right Instep Strap		•		3 oz.	27193	$53.50
8	Steel Band, 9´			•	2 lbs.	27185	$343.50
9	Leaf Spring			•	1 lb.	27182	$234.00
10	Hinged Joint			•	8 oz.	27179	$135.50
11	Coil Spring			•	2 oz.	27181	$54.95
12	Band Lock			•	10 oz.	27184	$110.00
13	Rubber Pad			•	7 oz.	27178	$54.95
14	Hinge Pin			•	2 oz.	27180	$30.50
15	Strap Tightener			•	3 oz.	27177	$119.50

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Buckingham® Tree and Pole Climbers
1667

Manufactured in accordance with ASTM F887 Standards

Tree Climbers Set with 2-3/4″ Gaffs

These replaceable gaff, steel climbers feature adjustable shanks for different leg lengths. Complete with nylon leg straps and leather L-pads.

Tree Climbers Set	7 lbs.	**27130**	**$279.25**
		3+	**$257.25**
Tree Climbers with Nylon Foot Strap Only	6 lbs.	**27122**	**$218.95**
Replacement Tree Gaffs - Screw Type, 2-3/4″	10 oz.	**27196**	**$77.75**

Pole Climbers Set with 1-3/4″ Gaffs

These replaceable gaff, steel climbers feature adjustable shanks for different leg lengths. Complete with nylon leg straps and leather L-pads.

Pole Climbers Set - with 1-3/4″ gaffs	7 lbs.	**27132**	**$277.95**
Replacement Pole Gaffs - Screw Type, 1-3/4″	7 oz.	**27161**	**$74.95**

Titanium Tree Climbers with 2-3/4″ Gaffs

A perfect combination, these climbers are strong like steel yet 11% lighter than aluminum! Developed to provide strength, light weight and comfort for total confidence while climbing.

Titanium Tree Climbers	6 lbs.	**27195**	**$407.75**
Replacement Tree Gaffs - Screw Type, 2-3/4″	10 oz.	**27196**	**$77.75**

Permanent Gaff Climbers with 3-1/2″ Gaffs

Tree climbers have 3-1/2″ permanent tree gaffs. Ring for strap attachment. Nylon foot and leg straps, pads, and climbers with sleeves, fasteners, and gaffs included.

Tree Climbers Set - with 3-1/2″ permanent gaffs	7 lbs.	**27136**	**$255.25**
		3+	**$233.75**

Tree & Pole Climbers Replacement Parts and Accessories

For Buckingham or Klein Tree & Pole Climbers.

One Pair L-Shaped Climber Pads	13 oz.	**27284**	**$37.50**
One Pair 23″ Nylon Calf Straps	4 oz.	**27141**	**$15.25**
One Pair 26″ Nylon Calf Straps	7 oz.	**27142**	**$16.50**
One Pair 26″ Nylon Ankle Straps with Split Ring	5 oz.	**27143**	**$21.95**

Buckingham® Velcro® Cinch Pad
6690

Cushion wrap pad measures 4″ wide. Features a cinch loop for easy tightening and 3/4″ of soft cushion for comfort. Velcro® closure.

Velcro Cinch Pad, 1 pair	2 lbs.	**27154**	**$133.25**

Super Climber Pads
1670

For extra comfort while climbing!

Measuring 9″ x 12-1/2″, these pads evenly distribute pressure over your calf for added comfort. Constructed of durable, weather-resistant leather lined with 1/2″ thick black felt. The felt liner and smoothed leather edges prevent rubbing and chafing. Tunnel for climber shank and 1-1/4″ slots for climber straps help hold pad in place. Pad is lockstitched and riveted for long-lasting use. Requires two 26″ climber straps to secure pad and climber shank to leg.

One Set Super Climber Pads	2 lbs.	**27168**	**$49.25**
One Pair 26″ Nylon Calf Straps	7 oz.	**27142**	**$16.50**

Note: Order 2 sets of straps per set of Super Climber Pads.

New! Weaver® Steel Support Pads
4889

Metal insert provides added support and helps ensure proper climber shank position. Made from Sunset harness leather with an English toast suede lining for no-slip comfort. The wrap around calf with a 4″ wide hook and loop strap distributes the pressure evenly for a perfect fit. The climber shank runs through an angled bracket and leather tunnel and is then secured with a brown Brahma Webb® strap. Sold per pair. Climbers not included.

Steel Support Pads, Fits Buckingham and Bashlin Climbers	3 lbs.	**27138**	**$137.25**
Steel Support Pads, Fits Klein and Climb Right Climbers	4 lbs.	**27139**	**$137.25**

New! Weaver® Shin Cup Pads
4889

Pads fit securely on calf with a built-in metal brace for added support and proper climber shank position. Constructed from durable burgundy latigo leather with a 3/4″ thick black felt lining for added comfort and to prevent chafing. Sold per pair. Climbers and climber straps not included.

Shin Cup Pads - Fits Buckingham and Bashlin Climbers	2 oz.	**27167**	**$51.95**
Shin Cup Pads - Fits Klein and Climb Right Climbers	2 oz.	**27169**	**$51.95**
One Pair 23″ Nylon Calf Straps	4 oz.	**27141**	**$15.25**
One Pair 26″ Nylon Calf Straps	7 oz.	**27142**	**$16.50**

DESKTOP. TABLET. MOBILE.
THE NEW
FORESTRY-SUPPLIERS.COM

Buckingham® Climber Footplates
1669

Relief for arch fatigue!

Steel footplates relieve arch fatigue by distributing weight of climber shank across sole of shoes. Attach with two screws to any steel climber (not intended for use with aluminum climbers). Soles covered with rubber for added traction.

Pair	3 lbs.	**27129**	**$109.75**

Gaff Guards
1668

Removable guards slip over gaff of pole or tree climbers when not in use. Fit Klein and Buckingham climbers. Secured by a Velcro® strap.

One Pair	2 oz.	**27121**	**$10.95**

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Split Tails
6666

Constructed of 16-strand, 1/2˝ diameter climbing rope!

For use in a split tail climbing system. Allows you to detach climbing line without untying, making it easier to maneuver. Climbing lines retain almost 90% of tensile strength, whereas a knot tied in a standard climbing system reduces rope strength by nearly half. Available in blue or orange. **Length:** 5′. **Tensile Strength:** 8,200 lbs.

5′ Split Tail, Blue	9 oz.	**83339**	**$18.95**
5′ Split Tail, Orange	9 oz.	**83340**	**$18.95**

Technora Eye to Eye Prusik
7265

Eye to eye lanyard made from Technora works well with all polyester ropes. 6,200 lb. tensile strength. Sewn eyes. 30˝ Overall.

Technora Eye to Eye Prusik	3 oz.	**27205**	**$30.25**

Steel Core Fliplines
6675

Steel core fliplines are constructed of 1/2˝ high visibility orange rope braided over a wire rope core, feature a swivel snap, and provide added safety when working around chainsaws. Easily adjustable using a flipline knot, Prusik Lanyard or mechanical ascender like the Petzl Microscender (27382).

8′ Steel Core Flipline	2 lbs.	**27360**	**$40.75**
10′ Steel Core Flipline	3 lbs.	**27361**	**$43.50**
12′ Steel Core Flipline	3 lbs.	**27362**	**$45.95**

PETZL

Petzl® Grillon Adjustable Lanyard
3774

This compact positioning lanyard features a mechanical adjustment system with a pivoting cam for quick, easy adjustments. A sliding protective sleeve protects the rope from abrasive points of contact. Features two side attachment points as well as a central front attachment point. Requires two suitable climbing carabiners to attach (sold separately). Constructed of nylon semi-static rope. **Length:** 3m.

Petzl Grillon Adjustable Lanyard	1 lb.	**27400**	**$185.00**

Adjustable Lanyards
6673

Features locking snaps. Sliding Prusik allows for use as an adjustable flipline. Constructed of durable 3-strand Dacron® polyester. Two adjustable lengths are available, 3′ to 6′ or 4′ to 9′. **Tensile strength:** 7,500 lbs.

3′ to 6′ Adjustable Lanyard	2 lbs.	**27352**	**$43.75**
4′ to 9′ Adjustable Lanyard	2 lbs.	**27353**	**$48.50**

2-in-1 Lanyard
6674

Lets you stay safetied-in at all times. The prusik and resting snap clip into the same hip D-ring on the adjustment side. The lanyard's third snap surrounds the tree or limb and clips into the opposite D-ring. Use the resting snap to change positions while still safetied-in. Constructed of Dacron®. **Length:** 10′. **Tensile strength:** 7,500 lbs.

2-in-1 Lanyard	3 lbs.	**27368**	**$61.50**

Double Braid Adjustable Lanyards
1675

Tough, double braided polyester rope is polyurethane-coated to minimize abrasion and snagging. Features double locking snap hook on each end. Color may vary. **Tensile:** 9,900 lbs. **Working load limit:** 2,475 lbs.

Double Braid Adjustable Lanyard, 3′ to 6′	2 lbs.	**27330**	**$49.25**
Double Braid Adjustable Lanyard, 4′ to 8′	2 lbs.	**27217**	**$53.95**

MILLER

Miller® Lineman's Safety Strap
1700

Strong 100% nylon strap, 5-1/2′ long, with friction-type adjustable buckle. Metal parts are forged steel attached with solid copper rivets. Bright yellow with red center alerts you to excessive wear. Meets ANSI Standard A 10.14 (1975). Belt not included. Use with double D-ring belts.

Miller Lineman's Safety Strap	3 lbs.	**27209**	**$137.25**

Buckingham SINCE 1886

Buckingham® Pole Strap
6676

Locking snap hooks on each end. Constructed of brown Nybuck, a durable and flexible woven nylon filament. Sealed edges prevent moisture penetration. Strap's center layers are made of contrasting colors to help identify wear. 1-3/4˝W x 7′L.

Buckingham Pole Strap	3 lbs.	**27152**	**$185.95**

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Petzl® Vertex® Best Helmet
3850

Superior comfort and excellent durability in a climbing helmet!

The polycarbonate shell resists impact and wear, and an adjustable chin strap keeps the helmet secure. A single adjustment wheel allows you to adjust the foam headband to two height positions. In addition, the helmet can be customized by mounting a face shield and/or standard hearing protection (Peltor, Bilsom, 3M, Tasco, etc.) in the side slots. The helmet's shell is designed with clearance over the ears to easily accommodate hearing protection. Meets ANSI Z89.1 2003 Type 1 Class E Standard.

VIZIR Visor Attachment - Protective eye shield meets ANSI Z87.1 2010 and CE EN 166 Class 1 Type B.	6 oz.	**24111**	**$54.95**	

White	Black	Red	Orange	Yellow	Weight	Each
24102	24113	24112	24114	24200	1 lb.	$115.00

Petzl® Vertex® Vent Helmet
3850

Comfortable and durable safety helmet with ventilation! Meets requirements for work at height and rescue. Ventilation holes can be closed with sliding shutters for cold/windy conditions. Meets ANSI Z89.1-2009 Type 1 Class C Standard.

VIZIR Visor Attachment - Protective eye shield meets ANSI Z87.1 2010 and CE EN 166 Class 1 Type B.	6 oz.	**24111**	**$54.95**	

White	Black	Red	Orange	Yellow	Weight	Each
24300	24127	24103	24128	24129	2 lbs.	$115.00

Petzl® Alveo Helmets
7793

Lightweight helmet for work at height and rescue. Features include comfort foam that is barely felt on the head, a polystyrene liner for absorbing shock, a CenterFit adjustment system which adjusts the headband and keeps it centered on the head, side slots for mounting hearing protection, inserts for accepting a VIZIR visor, slot for mounting PIXA headlamp, four clips for mounting a headlamp with an elastic headband, and a chin strap for limiting risk of losing helmet during a fall.

VIZIR Visor Attachment - Protective eye shield meets ANSI Z87.1 2010 and CE EN 166 Class 1 Type B.	6 oz.	**24111**	**$54.95**	

Alveo Best

The unventilated shell ensures protection against electrical risks and molten metal splash. Meets ANSI Z89.1-2009 Type I Class E Standard. Meets CE requirements of EN 397 and EN 12492 standards in terms of protection against mechanical impacts. Meets CE requirements of EN 397 and EN 50365 standards in terms of electrical insulation. Meets optional CE requirements of the EN 397 standard: molten metal splash, lateral deformation, use in cold temperatures.

Red	White	Yellow	Weight	Each
24104	24105	24106	1 lb.	$105.00

Alveo Vent

Ventilation holes provide air circulation. Meets ANSI Z89.1-2009 Type I Class C Standard. Meets CE requirements of EN 397 and EN 12492 standards in terms of protection against mechanical impacts. Meets optional CE requirements of the EN 397 standard for lateral deformation and use in low temperatures.

Red	White	Yellow	Weight	Each
24107	24108	24109	1 lb.	$105.00

Forestry Suppliers Lumberjack Hardhat System
3848

6-Point Suspension

Designed for protection and comfort, the lightweight and dielectric AOSafety XLR8 Hardhat with 6-point ratchet suspension features an exclusive patented front visor sealing to prevent debris from falling between the mesh and hardhat. The V1A metal mesh visor and hearing protectors can be raised up and down. The hardhat complies with ANSI Z89.-2009, Type 1, Class C, G and E standards. Hearing protectors meet ANSI S3.19-1974 standards. 21dB NRR.*

Lumberjack 6-Pt. Suspension Hardhat System	2 lbs.	**24433**	**$41.95**
Replacement Hearing Protector with Attachment	1 lb.	**24406**	**$36.95**

*Noise Reduction Rating

Forestry Suppliers Logger's First Aid Kits
3612

OSHA Mandated Kits

These kits contain first aid supplies adequate for small logging work sites consisting of approximately two or three employees. Each kit includes the following: ten 4″ x 4″ gauze pads; two 8″ x 10″ gauze compresses; 16 adhesive bandages; two 2″ wide rolls of gauze bandage; two triangular bandages; 10 antiseptic towelettes; scissors; two rescue blankets; tweezers; one roll of adhesive tape; latex gloves; one CPR mask; two elastic bandages; one tourniquet; 12 diphenhydramine Caps; splint; a writing pad and marker; and complete instructions for requesting emergency assistance. Kits are available in either a heavy-duty, metal case or an economical, plastic case. Both meet OSHA Standard 1910.266 Appendix A and USFS specifications.

Heavy-duty Metal Case	3 lbs.	**25258**	**$47.95**
		4+	**$45.50**
Economy Plastic Case	2 lbs.	**25259**	**$41.50**
		4+	**$38.50**

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Floating Dee Extra Wide Back Saddles
1688

Floating dee on front strap allows freedom of movement.

Extra wide 6″ waist back is foam filled and lined with soft brown leather for back support and comfort. Five rounded nylon loops hold up to 15 lbs. of accessories, and two nylon utility straps, each with a chrome brass 200 snap and a 2″ nickel plated ring, keep tools handy. Each meets ANSI #A10.14 1991.

Weaver Saddle with 1 Floating Dee, 2″ Wide Nylon Leg Straps and Seat Strap

Model 08-01040, Small, 30″ - 34″	6 lbs.	**27259**	**$182.50**
Model 08-01040, Medium, 34″ - 40″	6 lbs.	**27292**	**$182.50**
Model 08-01040, Large, 40″ - 44″	6 lbs.	**27293**	**$182.50**

Weaver Saddle with 2 Floating Dees, 2″ Wide Nylon Leg Straps and Seat Strap

Model 08-01041, Small, 30″ - 34″	6 lbs.	**27148**	**$187.75**
Model 08-01041, Medium, 34″ - 40″	6 lbs.	**27149**	**$187.75**
Model 08-01041, Large, 40″ - 44″	7 lbs.	**27150**	**$187.75**

New! 2 Floating Dees and Padded Nylon Leg Straps

Designed specifically for split-tail climbing! Features two floating dees made from forged aluminum with a black anodized finish.

Small 30″-34″	6 lbs.	**27312**	**$207.95**
Medium 34″-40″	6 lbs.	**27313**	**$207.95**
Large 40″-44″	6 lbs.	**27314**	**$207.95**

Weaver 4-Dee Single Thick Cotton Saddles
1686

Four dees offer several positioning options and add extra stability.

Cotton webbing reinforced with nylon provides comfort and strength. Two nylon utility straps, each with a chrome brass 200 snap and a 2″ nickel plated ring, keep tools handy. Meet ANSI #A10.14 1991.

Weaver 4-Dee Single Thick Cotton Saddle with 2” Wide Nylon Leg Straps

Model 08-01034-SM, Small, 30″ - 34″	5 lbs.	**27285**	**$143.50**
Model 08-01034-MD, Medium, 34″ - 40″	5 lbs.	**27286**	**$143.50**
Model 08-01034-LG, Large, 40″ - 44″	5 lbs.	**27287**	**$143.50**

New! Weaver 4-Dee Single Thick Cotton Saddle with Heavy Duty Coated Webbing Leg Straps

Model 08-01010-SM, Small, 30″ - 34″	4 lbs.	**27315**	**$132.95**
Model 08-01010-MD, Medium, 34″ - 40″	4 lbs.	**27316**	**$132.95**
Model 08-01010-LG, Large, 40″ - 44″	4 lbs.	**27317**	**$132.95**

Weaver® 4-Dee Extra Wide Back Saddles
1687

Foam saddle seating (1/4″ thick) is sandwiched between layers of reinforced rubberized belting material. Soft brown leather lining provides back support and comfort.

Weaver 4-Dee Saddle With Neoprene Leg Straps and Wide Padded Back

Model 08-01035, Small, 30″ - 34″	6 lbs.	**27250**	**$164.25**
Model 08-01035, Medium, 34″ - 40″	6 lbs.	**27251**	**$164.25**
Model 08-01035, Large, 40″ - 44″	6 lbs.	**27252**	**$164.25**

Please refer to this size chart when ordering all Weaver Leather Positioning Saddles

Size	Dee to Dee	Approx. Waist Size
Small	20″	30″ to 34″
Medium	22″	34″ to 40″
Large	24″	40″ to 44″

DESKTOP. TABLET. MOBILE.
THE NEW FORESTRY-SUPPLIERS.COM

Dyna-Stopper Multi-Purpose Wound Dressing
4817

This sterile, non-stick dressing unfolds to 9″ x 5-1/2″ to provide coverage of wounds or burns. Includes stretch gauze roll for use as a pressure bandage. Dyna-Stopper can also be used as an arm sling.

Dyna-Stopper Multi-Purpose Wound Dressing	1 oz.	**25165**	**$9.50**

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Petzl® Avao® Sit Climbing Harness
4847

Designed to provide excellent support, the semi-rigid, contoured belt and leg loops of this climbing harness are lined with breathable, perforated foam for superior comfort. Self-locking DoubleBack buckles on the belt allow for fast, easy adjustment. The ventral attachment point distributes the load between the belt and leg loops during suspended work, and two lateral attachment points transfer the load to the belt when working with feet supported. A rear attachment point allows for the connection of a restraint lanyard. Features five pre-shaped equipment loops with protective sheath. **Certification:** CE EN 358, CE EN 813.

Small/Medium, 27.5″ to 43.3″	3 lbs.	**27407**	**$260.00**
Large/X-Large, 31.4″ to 51.2″	3 lbs.	**27408**	**$260.00**

New! Petzl® AVAO® BOD Full-Body Climbing Harness
4847

Offering dependable fall protection and comfort while working, this full-body harness features X-shaped dorsal construction that reduces pressure points during prolonged suspension. The wide waist belt and leg loops are sculpted and lined with breathable perforated foam. Widely spaced foam shoulder straps reduce neck chafing. Self-locking DoubleBack buckles on the waist belt, leg loops, and shoulder straps allow for quick, easy adjustment. Features six pre-shaped equipment loops as well as ventral, lateral, sternal, dorsal, and rear attachment points. Meets ANSI Z359.1, NFPA 1983 Class III, CSA Z259.10, CE EN 361, CE EN 358, CE EN 813.

Size 1, 27.6″ to 43.3″ Waist	5 lbs.	**27417**	**$395.00**
Size 2, 31.5″ to 51.2″ Waist	5 lbs.	**27418**	**$395.00**

New! Petzl® Sequoia Climbing Harness, 2014 Edition
8685

For double rope ascent techniques.

The extra-wide waist belt and leg loops of this seat harness are lined with perforated foam for outstanding comfort during suspension, and FAST buckles ensure easy opening and closing even when you're wearing gloves. The attachment bridge is linked to two gated rings, allowing for length adjustment and the installation of accessories on the bridge. Features seven pre-shaped equipment loops with protective sheath, an elastic for attaching a first aid kit, and two slots for a carabiner to hold a chainsaw or hand saw. Meets CE EN 358, CE EN 813. Backed by a 3-year manufacturer's guarantee.

Size 1, 25.5″ to 39″ Waist	4 lbs.	**27419**	**$399.00**
Size 2, 33.5″ to 47″ Waist	4 lbs.	**27420**	**$399.00**

Pac-Kit® Climber's Kits
4611

Tough environments require serious attention! Keep a climber's first aid kit handy for treating serious wounds until medical help can be found. The rugged ballistic nylon bag has an ultra secure Velcro® closure and a nickel-plated belt hook.

Climber's Kit Contents include: 1 Hema-Seal Major Wound Bandage, 1 4″ x 4 yd. Conforming Gauze Bandage, and 4 fastening clips.	8 oz.	**25463**	**$9.95**
Climber's Kit w/Wound Seal Contents include: 1 WoundSeal® Rapid Response Bottle, 1 Hema-Seal Major Wound Bandage, 1 4″ x 4 yd. Conforming Gauze Bandage, and 4 fastening clips.	8 oz.	**25464**	**$19.50**

Weaver® Batten Seat Saddle
7786

Comfortable, extra wide back and a batten seat. The 4″ wide batten seat is reinforced with an aluminum bar covered in foam. Batten seat floats on waist belt for easy positioning and comfort and is lined with soft oil-tanned top grain steer hide leather. Features adjustable accessory batten seat straps. The 6″ wide waist back is foam filled and lined with a soft oil tanned top grain steer hide leather plus it features five rounded nylon loops that hold up to 15 lbs. of accessories and two nylon utility straps with a chrome brass 200 snap and a 2″ nickel plated ring that keep tools close at hand. Comes with 1″ high pull granite coated webbing leg straps that help prevent slip-through. Not intended for fall arrest.

Small, 30″ to 34″	6 lbs.	**27228**	**$178.50**
Medium, 34″ to 40″	6 lbs.	**27229**	**$178.50**
Large, 40″ to 44″	6 lbs.	**27231**	**$178.50**

Buckingham® Traverse Tree Saddle
1684

Provides maximum comfort and versatility!

Utilizes two sliding dee rings for overhead suspension to take full advantage of split tail system. Adjustable batten seat section, small dee rings (4 total), and accessory loops. Other features include tongue buckle belt strap, extra firm pad, elastic keepers to hold excess strap, 1″ nylon straps to keep seat section in place, and snaps and loops for hanging handsaw, water bottle, chainsaw, etc. Meets ANSI A 10.14.

Small, 28″ - 32″	7 lbs.	**27302**	**$317.25**
Medium, 32″ - 36″	7 lbs.	**27303**	**$317.22**
Large, 36″ - 40″	8 lbs.	**27304**	**$317.25**

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Samson Climbing Ropes®

Samson® Vortex 24-Strand True 1/2″ Climbing Rope
7947

Lightweight and flexible, this climbing line is a full 1/2″ in diameter, making it easier to grip and handle. Offers excellent knot-holding ability, works well with hardware, and is ideal for footlocking. Nylon core/polyester cover. Available in Cool (green, blue, and white combination) or Hot (orange, red, and white combination).

1/2″ x 120′ Hank, Cool Color 9 lbs.	**83344**	**$144.25**
	2+	**$138.95**
1/2″ x 150′ Hank, Cool Color 12 lbs.	**83364**	**$175.25**
	2+	**$167.95**
1/2″ x 600′ Reel, Cool Color 49 lbs.	**83368**	**$670.00**
	2+	**$650.00**
1/2″ x 120′ Hank, Hot Color 10 lbs.	**83345**	**$144.25**
	2+	**$138.95**
1/2″ x 150′ Hank, Hot Color 12 lbs.	**83365**	**$175.25**
	2+	**$167.95**
1/2″ x 600′ Reel, Hot Color 50 lbs.	**83369**	**$670.00**
	2+	**$650.00**

Samson® Arbor-Plex™ 12-Strand 1/2″ Climbing Rope
1651

Duron™ II polyester – twice as strong as manilla – for more durability, and firm "nubby" surface for good grip. Stays flexible, throws well, good knot holding. Resists chemicals and UV, will not mildew.

1/2″ x 120′ Hank 8 lbs.	**83305**	**$86.25**
	2+	**$80.95**
1/2″ x 150′ Hank 10 lbs.	**83306**	**$106.25**
	2+	**$102.95**
1/2″ x 600′ Reel 46 lbs.	**83307**	**$394.50**

Samson® True Blue™ 12-Strand 1/2″ Braided Climbing Rope
1652

A unique combination of extrusion set blue polyester fiber wrapped over a white polyester core in a 12-strand braid. Each strand of the polyester braid is treated for maximum life and consistent knot control. The outer blue polyester fibers have parallel fiber orientation to minimize fiber wear and prolong working life. Maintains flexibility. Rot-mildew resistant.

1/2″ x 120′ Hank 10 lbs.	**83320**	**$131.75**
	2+	**$123.50**
1/2″ x 150′ Hank 12 lbs.	**83321**	**$163.75**
	2+	**$154.50**
1/2″ x 600′ Reel 58 lbs.	**83322**	**$601.00**

Samson® ArborMaster® 16-Strand 1/2″ Climbing Ropes
1653

Blue Streak™ and Red, Black & White

Same rope, just different colors for color coding and easy recognition of lines in the tree. Smooth surface for "footlock" and exceptional durability. Specially treated polyester with a stabilized nylon core. Exclusive treatment process makes it both soft and supple, yet very strong. Holds its shape well, increases knot holding. 1/2″ Diameter minimizes climber fatigue. High visibility in trees.

Blue Streak,™ 1/2″ x 120′ Hank 9 lbs.	**83324**	**$133.75**
	2+	**$125.75**
Blue Streak,™ 1/2″ x 150′ Hank 12 lbs.	**83325**	**$159.50**
	2+	**$149.50**
Blue Streak,™ 1/2″ x 600′ Reel 54 lbs.	**83326**	**$586.00**
Red, Black & White, 1/2″ x 120′ Hank 9 lbs.	**83354**	**$132.25**
	2+	**$124.25**
Red, Black & White, 1/2″ x 150′ Hank 12 lbs.	**83355**	**$158.00**
	2+	**$148.00**
Red, Black & White, 1/2″ x 600′ Reel 53 lbs.	**83356**	**$586.00**

Samson Climbing Ropes Specifications

	Vortex	Arbor-Plex	True Blue	ArborMaster
Size (diameter)	1/2″	1/2″	1/2″	1/2″
Strand	24	12	12	16
Weight/100 ft.	7.6 lbs.	6.8 lbs.	8.5 lbs.	7.9 lbs.
Average Tensile Strength	8,800 lbs.	6,000 lbs.	7,300 lbs.	8,100 lbs.
Working Elongation % at Various Loads (lbs.)		1.0% @ 200	1.0% @ 200	1.1% @ 200
		1.3% @ 400	1.3% @ 400	1.96% @ 400
		3.0% @ 800	3.0% @ 800	3.25% @ 800
Working Load	880 lbs.	600 lbs.	730 lbs.	810 lbs.

Snaps and Carabiners pages 268 & 269

Friction Saver
16621

Protects trees and ropes from extreme friction.

Place the 1-1/2″ nylon webbing strap in tree crotch and thread climbing line through the two metal rings. Strap can even be placed from ground level (with practice). Reduces friction to zero on the tree and nearly nothing on your ropes. **Available in two sizes:** 24″ or 60″. **Tensile:** 6,000 lbs. **Working load limit:** 1,500 lbs.

24″ Friction Saver	1 lb.	**27344**	**$65.95**
60″ Friction Saver	2 lbs.	**27345**	**$75.25**

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Samson Bull Ropes®

Samson® Arbor-Plex™ 5/8″ & 3/4″ 12-Strand Bull Rope
1655

Considered a "Work Horse" for virtually all rigging uses!

Economical, torque-balanced, 12-strand rope is tightly braided to hold its shape. Excellent wear resistance, high strength, lightweight, snag-resistant, non-rotational, flexible, low stretch, and rot and mildew resistant.

5/8″ x 150′ Coil 18 lbs.		83335	$182.95
		2+	$169.95
5/8″ x 600′ Reel 81 lb.	X	83336	$628.00
3/4″ x 150′ Coil 25 lbs.		83337	$252.00
		2+	$236.00
3/4″ x 600′ Reel 110 lbs.	X	83338	$837.00

Samson® Pro-Master™ 5/8″ & 3/4″ 3-Strand Bull Rope
1654

Firm, balanced 3-strand rope is lightweight and easy to handle. Holds shape even under heavy use. Spun fiber on surface offers excellent grip and knot holding. Stores wet or dry. Excellent chemical resistance.

5/8″ x 150′ Coil 15 lbs.		83331	$129.25
		2+	$122.25
5/8″ x 600′ Reel 69 lbs.		83332	$466.00
3/4″ x 150′ Coil 21 lbs.		83333	$167.75
		3+	$155.75

Samson® 2-in-1® Stable Braid™ 5/8″ & 3/4″ Double Braid Bull Rope
1656

100% Polyester double braid. Flexible and easy to handle. Bright Samthane® coating makes rope highly visible and enhances resistance to abrasion and snagging. High strength, low stretch, low snag, and minimal UV degradation.

5/8″ x 150′ Coil, Red 20 lbs.		83327	$222.00
		2+	$203.00
5/8″ x 600′ Reel, Red 94 lbs.	X	83328	$802.00
3/4″ x 150′ Coil, Orange 27 lbs.		83329	$283.00
		2+	$263.00
3/4″ x 600′ Reel, Orange 112 lbs.	X	83330	$1009.00

X Items 60″ or more require an additional handling charge.

Yale Cordage XTC 16-Strand, 1/2″ Climbing Ropes
7351

XTC is a tight braid consisting of 16 strands of polyester. High twist core of torque balanced polyester keeps the construction firm and round.

Weight/100ft: 7.5 lbs. **Average Tensile Strength:** 6,200 lbs. **Working Load:** 620 lbs.

XTC Spearmint – Half of the cover strands are bright green extrusion-dyed polyester, resulting in coloration that won't fade or run.

1/2″ Climbing Rope, 120′ 10 lbs.	83381	$104.95
	2+	$99.95
1/2″ Climbing Rope, 150′ 13 lbs.	83382	$131.25
	2+	$125.95
1/2″ Climbing Rope, 600′ 58 lbs.	83383	$384.50

XTC Fire – The highest visibility line ever seen in the industry. XTC Fire is specifically designed for the demanding needs of arborists.

1/2″ Climbing Rope, 120′ 10 lbs.	83384	$121.75
	2+	$115.25
1/2″ Climbing Rope, 150′ 13 lbs.	83385	$146.95
	2+	$139.75
1/2″ Climbing Rope, 600′ 58 lbs.	83386	$439.95

Samson Bull Ropes Specifications

	Arbor Plex		Pro-Master		Stable Braid	
Size (diameter)	5/8″	3/4″	5/8″	3/4″	5/8″	3/4″
Strand	12	12	3	3		
Weight/100 ft.	12 lbs.	16.2 lbs.	9.5 lbs.	18.1 lbs.	14.2 lbs.	18.1 lbs.
Average Tensile Strength	9,000 lbs.	12,000 lbs.	8,500 lbs.	10,900 lbs.	16,300 lbs.	20,400 lbs.
Working Elongation % at Various Loads (lbs.)	1.7% @ 900	1.7% @ 1,200	2.0% @ 820	2.0% @ 1,080	1.1% @ 1,630	1.1% @ 2,040
	2.9% @ 1,800	2.9% @ 1,800	3.2% @ 1,640	3.2% @ 2,160	1.7% @ 3,260	1.7% @ 4,080
	3.6% @ 2,700	3.6% @ 3,600	3.9% @ 2,460	3.9% @ 3,240	2.7% @ 4,890	2.7% @ 6,120
Working Load	900 lbs.	1,200 lbs.	850 lbs.	1,090 lbs.	1,630 lbs.	2,040 lbs.

The Tree Climber's Companion
1696

Second Edition

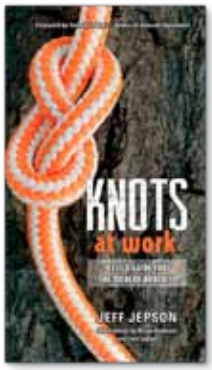
A compact field reference and training manual for tree climbers! Written by Jeff Jepson, a certified Arborist with over 200 illustrations by Bryan Kotwicka. Softcover. 104 Pages.

The Tree Climber's Companion 6 oz.	59625	$12.50

New! Knots at Work
4892

By Jeff Jepson. Illustrations by Bryan Kotwica. Beaver Tree Publishing, 2014. Presents over 50 arborist knots with information on both knot construction (tying the knots) and application (using the knots). Offering more than 200 illustrations and utilizing a handy cross-reference format, this compact book measures 4.5″ x 8″ and is ideal for field use. Softcover. 184 Pages.

Knots at Work 7 oz.	59628	$16.95



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Safety Blue

Safety Blue High-Vee

All Gear Safetylite

All Gear Neolite

New England Ropes® Safety Blue™ 1/2″ Braided 16-Strand Climbing Ropes

8283

Safety Blue™

Braided, nonrotating tree climbing rope. High tenacity blue nylon safety core. Works well in foot locking, doesn't bunch at knot when moving up on the rope. Resists rot, mildew, most chemicals. Handles well wet or dry. Polyester covered polypropylene yarn braided around safety blue core.

1/2″ x 120′ Hank 9 lbs.	**83308**	**$127.25**	
	2+	**$122.25**	
1/2″ x 600′ Coil 52 lbs.	**83309**	**$511.75**	

Safety Blue™ High-Vee

Made to the same exact standards as regular Safety Blue 1/2″ Climbing Rope. Features a bold, bright color pattern of orange and white strands. This color pattern identifies the rope as a critical climbing line to personnel in the tree and on the ground. Orange color won't fade or wear away.

1/2″ x 120′ Hank 9 lbs.	**83270**	**$149.50**
	2+	**$143.75**
1/2″ x 600′ Coil 50 lbs.	**83271**	**$606.00**

All Gear Safetylite 1/2″ Braided 16-Strand Climbing Rope

4324

The neon yellow and International Safety Orange colors of this 16-Strand Polyester Arborist/Working Line make it highly visible for superior safety. The good, firm construction keeps the line round for high performance. 7,500 lbs. Average Breaking Strength. Available in 1/2″ Diameter and in 120′, 150′, and 600′ lengths.

1/2″ x 120′ H.D. Poly Bag 10 lbs.	**83357**	**$113.75**
	3+	**$108.95**
1/2″ x 150′ H.D. Poly Bag 12 lbs.	**83358**	**$140.95**
	3+	**$135.50**
1/2″ x 600′ Reel 53 lbs.	**83359**	**$495.50**

All Gear Neolite 1/2″ Braided 16-Strand Climbing Rope

3664

With superior safety in mind, the neon colors of this rope provide ultimate visibility. Constructed of premium fibers, the rope stays round for high performance and offers excellent resistance to abrasion and snagging. Constructed of 16-strand braided polyester.

1/2″ x 120′ H. D. Poly Bag 10 lbs.	**83351**	**$113.75**
	2+	**$108.95**
1/2″ x 150′ H. D. Poly Bag 12 lbs.	**83352**	**$140.95**
	2+	**$135.50**
1/2″ x 600′ Reel 50 lbs.	**83353**	**$495.50**

Gerber® E-Z Out™ Rescue Knife

2560

The E-Z Out Rescue Knife has a fully serrated blade with a rounded safety tip. A hole in the blade allows for quick, one-handed opening. The high-visibility yellow nylon handle features black Kraton® non-slip rubber inserts and a removable stainless steel pocket clip.

Overall Length: 8″. **Length Closed:** 4.62″. **Length of Blade:** 3.5″. **Weight:** 3 oz.

Gerber E-Z Out Rescue Knife	3 oz.	**25288**	**$33.95**
		3+	**$31.95**

		Climbing Rope			
		Safety Blue	High-Vee	Safetylite	Neolite
Size (diameter)		1/2″	1/2″	1/2″	1/2″
Strand		16	16	16	16
Weight/100 ft.		7.0 lbs.	7.0 lbs.	7.6 lbs.	7.6 lbs.
Average Tensile Strength		7,000 lbs.	7,000 lbs.	7,500 lbs.	7,500 lbs.
Working Elongation %	at 200 lbs.	1.5%	1.5%	1.7%	1.7%
	at 400 lbs.	2.4%	2.4%	3.5%	3.5%
	at 800 lbs.	3.8%	3.8%	7.2%	7.2%

New England Ropes® KM-III Static Kernmantle Rope

6662

Designed for rescue and rappelling operations.

Meets or exceeds NFPA Standard for one and two-person rescue ropes. Continuous filament polyester cover braided over nylon core. Superior chemical and abrasion resistance. Torque-balanced to eliminate spin. Available in white with double blue tracer or orange with double blue tracer. The white rope has a tensile strength of 7,500 lbs. for the 7/16″ diameter rope and 10,000 lbs. for the 1/2″ diameter rope. Tensile strength of orange rope is approximately 10% less.

Style	Diameter	Length	Tensile Strength	Weight	SN	$
White	7/16″	150′	7,500 lbs.	9 lbs.	**83360**	**$122.25**
	7/16″	600′	7,500 lbs.	39 lbs.	**83361**	**$413.75**
	1/2″	150′	10,000 lbs.	12 lbs.	**83362**	**$156.95**
	1/2″	600′	10,000 lbs.	59 lbs.	**83363**	**$536.25**
Orange	1/2″	150′	9,900 lbs.	13 lbs.	**83366**	**$179.95**
	1/2″	600′	9,900 lbs.	55 lbs.	**83367**	**$613.75**

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New England Ropes® Multiline® II 5/8″ & 3/4″ 3-Strand Bull Rope

1647

Long-wearing, easy-handling line for lowering limbs, equipment. 75% Stronger, 25% lighter than manila. Very low working elasticity; excellent rendering capability on winches. Composite rope with polypropylene core in the center of each strand securely wrapped with cover yarns of 100% polyester.

5/8″ x 150′ Coil 16 lbs.		**83310**	**$121.95** 2+ **$116.50**
5/8″ x 600′ Reel 72 lbs.	X	**83311**	**$389.00**
3/4″ x 150′ Coil 24 lbs.		**83312**	**$159.50** 2+ **$150.95**
3/4″ x 600′ Reel 99 lbs.	X	**83313**	**$544.00**

New England Ropes® Treeline 5/8″ & 3/4″ Braided 12-Strand Bull Rope

1648

Provides maximum strength and durability in lowering operations. The polypropylene core of each strand is tightly sheathed with multiple, firmly twisted polyester yarns which have been treated with a special finish to provide superior abrasion resistance, excellent knot holding and long service life. Non-rotating so loads will not spin.

5/8″ x 150′ Coil 17 lbs.		**83316**	**$177.95** 2+ **$168.95**
5/8″ x 600′ Reel 79 lbs.	X	**83317**	**$599.50**
3/4″ x 150′ Coil 23 lbs.		**83318**	**$230.50** 2+ **$220.25**
3/4″ x 600′ Reel 96 lbs.	X	**83319**	**$762.95**

		Bull Rope			
		Multiline II		Treeline	
Size (diameter)		5/8″	3/4″	5/8″	3/4″
Strand		3	3	12	12
Weight/100 ft.		9.5 lbs.	13.2 lbs.	11 lbs.	15.4 lbs.
Average Tensile Strength		8,200 lbs.	10,500 lbs.	8,600 lbs.	12,000 lbs.
Working Elongation %	at 200 lbs.	1.2%	0.8%	0.6%	0.5%
	at 400 lbs.	2.5%	1.8%	1.0%	0.8%
	at 800 lbs.	4.4%	3.2%	1.9%	1.7%

Petzl® Cordex Gloves page 265

Nylon Utility Rope

1650

Nylon rope is plied yarn construction. 100′ Minimum order. Longer lengths available in additional increments of 25′. Prices are per foot.

Diameter	Working Load	Avg. Break	Wt./100′	SN	100′	600+
1/2″	630 lbs.	6,300 lbs.	7 lbs.	**83280**	**$0.45**	**$0.35**
5/8″	1,000 lbs.	10,000 lbs.	10.5 lbs.	**83281**	**$0.65**	**$0.50**
3/4″	1,350 lbs.	13,500 lbs.	14.5 lbs.	**83282**	**$0.90**	**$0.70**

Rope Thimble

1689

Use this plastic rope thimble when attaching hooks to prevent wear on your ropes.

For 1/2″ Rope 1 oz.	**27340**	**$0.85**

Hollow Braided Poly Rope

3223

This 1/4″ colorfast, highly visible yellow rope is weather-resistant. 100% hollow braided polypropylene. **Tensile Strength:** 990 lbs. **Working Load:** 198 lbs. 1,000′ Reel.

Hollow Braided Poly Rope, 1/4″ x 1000′ 8 lbs.	**83314**	**$41.50** 4+ **$39.50**

Maasdam Pow'R-Rope Puller

1514

Manufacturer's Warranty Lifetime

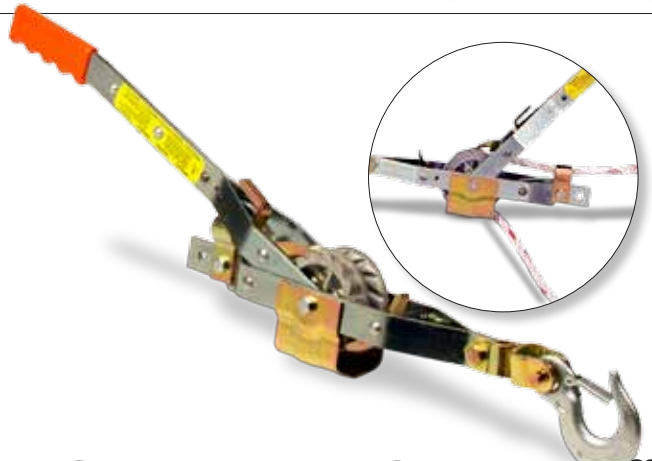
Made in USA

Heavy duty rope puller.

This rope puller has heavy-duty features including 1,500 lb. capacity, 10:1 leverage, unlimited lift, and trouble-free automatic letdown. Increase capacity by using pulley blocks. Constructed of aircraft quality materials. Requires 1/2″ rope (12-strand or less), but is ideally suited for use with 3-strand rope. Manufacturer's lifetime warranty. Made in the USA. **Capacity:** 1,500 lbs. **Leverage:** 10:1.

Maasdam Pow'R-Rope Puller	6 lbs.	**69016**	**$58.95**
Maasdam Pow'R-Rope Puller, Includes 100′ of 1/2″, 3-Strand Poly-Dacron Rope	13 lbs.	**69026**	**$89.00**

X Items 60″ or more require an additional handling charge.



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New! Weaver® Throw Line Storage Cube

4890

This 16-1/2″ cube organizes and stores throw lines and weights when open, then collapses to a compact triangle for easy storage when not in use. Durable with plenty of storage, the cube has a roomy outside pocket and two smaller interior pockets. The end of the throw line secures with a hook and loop strap and dee ring.

Throw Line Storage Cube	1 lb.	**27318**	**$25.75**

Big Shot

8469

Ideal for shooting throw bag and line through tree limbs. Delivers line up to 200′. Fits directly onto Jameson poles. Kit comes complete with the big shot, one 4′ extension pole, and one 4′ base pole.

Big Shot	6 lbs.	**83259**	**$140.50**

New! Bullet Throw Weight

1659

Sleek, aerodynamic design in contrasting colors that are easy to see. The moving action of the #8 coated lead shot in the Cordura® covered latex pouches helps prevent hang-ups in trees. A 7/8″ welded nickel-plated ring for rope attachment is box-stitched to each weight. Two-tone color is black/blaze orange.

8 oz. Bullet Throw Weight 8 oz.	**83225**	**$14.95**
10 oz. Bullet Throw Weight 10 oz.	**83226**	**$14.95**
12 oz. Bullet Throw Weight 12 oz.	**83227**	**$14.95**
150′ Polyethylene (Slick) Throw Line 8 oz.	**83267**	**$10.95**

New! Throw Weight

1659

The aerodynamic design helps increase the range of the throw. The moving action of the #8 coated lead shot in the Cordura® covered latex pouches helps prevent hang-ups in trees. A 7/8″ welded nickel-plated ring for rope attachment is box-stitched to each weight.

12 oz. Throw Weight 13 oz.	**83228**	**$11.50**
14 oz. Throw Weight 15 oz.	**83229**	**$11.50**
16 oz. Throw Weight 1 lb.	**83264**	**$11.50**
150′ Polyethylene (Slick) Throw Line 8 oz.	**83267**	**$10.95**

Samson Zing-It™ Throw Line

3778

Specifically designed for the professional arborist!

This 8-strand, solid braid throw line offers high strength for pulling down "hangers", low stretch for superior control, and outstanding abrasion resistance for increased durability. Zing-It also helps you achieve higher throws with lighter weights. A special slick coating allows Zing-It to easily glide over the roughest bark.

Weight per 100′: 1.75mm line, 0.12 lbs.; 2.2mm line, 0.16 lbs. **Average strength:** 1.75mm line, 560 lbs.; 2.2mm line, 670 lbs.

1.75mm, 180′L 7 oz.	**83272**	**$32.50**
2.2mm, 180′L 8 oz.	**83273**	**$37.25**

Linemug

1659

Features external ring for clipping to saddle, internal ring for tying off the end of the throw line, and drawstring to keep line and shot pouch (both sold separately) inside when not in use. Linemug is 4″ in diameter and 6″ in height and holds over 150 feet of lightweight line. The line plays out smoothly when you throw and stuffs back in easily. Clip the Linemug to the front of your saddle when you throw, and clip to the back of your saddle when you climb.

Linemug 3 oz.	**83265**	**$13.25**
150′ Polyethylene (Slick) Throw Line 8 oz.	**83267**	**$10.95**

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CMI Rope Bags
6691

Keeps rope clean and protects it from sharp equipment.

Bottom of bag features a 5/8″ grommet for easy rope deployment. Cordura® nylon, double-stitched for durability. Each bag has 1-1/2″ top-mounted carrying handles which can be looped over your knees to make stuffing rope in the bag quick and easy. The large size bag also features an over-the-shoulder strap. **Color:** Yellow.

Medium CMI Rope Bag

Holds up to 150′ of 1/2″ rope or 100′ of 5/8″ rope. 14″H X 11″ diameter.

Medium CMI Rope Bag	8 oz.	**83200**	**$26.75**

Large CMI Rope Bag

Holds up to 300′ of 1/2″ rope or 200′ of 5/8″ rope. 22″H X 11″ diameter.

Large CMI Rope Bag	11 oz.	**83201**	**$34.95**

Weaver® Rope Bags
1663

Designed to make stuffing rope easy!

Constructed from 1,200-denier nylon, each rope bag features a spiral wire attached to the exterior of the bag to prevent it from collapsing while rope is being stuffed.

Basic Rope Bag

Keeps rope coiled and tangle-free. The drawstring top closure offers quick, easy access. Holds 150′ of 1/2″ or 9/16″ rope. **Color:** Red. **Dimensions:** 14″H x 12″ diameter.

Weaver Basic Rope Bag	3 lbs.	**83261**	**$32.25**

Deluxe Rope Bag

Zippered top closure and a grommet for feeding rope through. Flap covering grommet protects rope. Two outside pockets. 1″ ring for saddle attachment. Holds 150′ of 1/2″ or 9/16″ rope. **Color:** Red. **Dimensions:** 15″H x 11″ diameter.

Deluxe Rope Bag	3 lbs.	**83274**	**$42.75**

Bull Rope Deployment Bag

Drawstring top closure and padded shoulder strap. Two outside pockets to store block and rope. Holds a 5/8″ x 200′ lowering line. **Color:** Blue. **Dimensions:** 18″H x 15″ diameter.

Weaver Bull Rope Deployment Bag	5 lbs.	**83260**	**$55.50**

Youngstown Ropework XT™ Gloves
7674

Specially designed for arborists, rescue personnel, and other rope access professionals. This ergonomic glove features ultra tacky Ropegrip™ palm reinforcement to provide a sure grip. The top of the glove is lined with Kevlar® for cut-resistance, and the foam padded palm base dampens shock. Terry cloth thumb for wiping away sweat. Supportive cuff features an adjustable Velcro® closure and a heavy duty grommet.

Medium	5 oz.	**91211**	**$32.50**
Large	5 oz.	**91212**	**$32.50**
X-Large	5 oz.	**91213**	**$32.50**

Petzl® Cordex Gloves
8310

These belay/rappel gloves provide outstanding hand protection plus the dexterity needed to tie knots and work with hardware. The low-profile neoprene cuff with a Velcro closure features a reinforced carabiner hole for attaching the gloves to your harness.

Petzl® Cordex

Cordex Lightweight gloves feature double-layered leather for protection in the palm and other high-wear areas. The back is made of abrasion resistant, breathable stretch nylon, ensuring comfort and fit.

Cordex, Medium	5 oz.	**90959**	**$39.95**
Cordex, Large	5 oz.	**90960**	**$39.95**
Cordex, X-Large	5 oz.	**90961**	**$39.95**

Petzl® Cordex Plus

Cordex Plus Medium weight gloves offer extra protection without sacrificing dexterity. Double-layered leather and padding protect the palm from heat generated during long rappels or lowers. Fingertips and other high-wear areas are reinforced for increased durability. The back is made of leather with abrasion resistant, stretch nylon at key flex areas.

Cordex Plus, Medium	3 oz.	**90956**	**$49.95**
Cordex Plus, Large	6 oz.	**90957**	**$49.95**
Cordex Plus, X-Large	7 oz.	**90958**	**$49.95**

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Split Tails
6666

Constructed of 16-strand, 1/2″ diameter climbing rope!

For use in a split tail climbing system. Allows you to detach climbing line without untying, making it easier to maneuver. Climbing lines retain almost 90% of tensile strength, whereas a knot tied in a standard climbing system reduces rope strength by nearly half. Available in blue or orange. **Length:** 5′. **Tensile Strength:** 8,200 lbs.

5′ Split Tail, Blue 9 oz.	**83339**	**$18.95**
5′ Split Tail, Orange 9 oz.	**83340**	**$18.95**

Samson® 3/8″ Prusik Cord
8366

3/8″ Dia., high quality, double braid polyester cord that is soft and flexible with great gripping ability. An economical choice when heat resistance is not a factor. Sold by the foot.

3/8″ Prusik Cord 1 oz.	**27210**	**$1.30**
	50+	**$1.05**
	100+	**$0.80**

Technora Eye to Eye Prusik
7265

Eye to eye lanyard made from Technora works well with all polyester ropes. 6,200 lb. tensile strength. Sewn eyes. 30″ Overall.

Technora Eye to Eye Prusik 3 oz.	**27205**	**$30.25**

1

2

See the HAAS Tree Ascender Instructional video on our website www.forestry-suppliers.com

3

4

1 New! Petzl® ZIGZAG® Mechanical Prusik, 2014 Edition
4957

The ZIGZAG allows you to efficiently move around in a tree using classic Prusik pulley system technique. Friction links provide progressive braking action, and varying the pressure on the release lever precisely controls the speed of descent. The pulley is mounted on sealed ball bearings to allow slack to be easily taken up. A swivel constantly keeps the device in position for better rope glide. Features steel construction, an upper connection point to easily connect the end of the double rope, and a flexible ring that maintains the connector in the major axis position. Only for use on double ropes. **Rope Diameter:** 11.5 mm to 13 mm.

Petzl ZIGZAG Mechanical Prusik, 2014 Edition	13 oz.	**27379**	**$275.00**

2 New! HAAS Tree Ascender System
4893

This revolutionary system allows for quick, easy ascents! The HAAS's fully integrated knee ascender captures 100% of the advancement made by a traditional foot ascender worn on your opposite side. The bungee design runs the length of the lower tether to provide full operational range of pull for faster, better coordinated climbing. More ergonomic than foot locking, the HAAS features an adjustable foot loop and can be used in single rope or double rope systems. Works with ropes up to 1/2″ in diameter. Traditional foot ascender not included.

HAAS Tree Ascender System	13 oz.	**27366**	**$149.95**

3 Petzl® Pantin Foot Ascender
2226

This foot-mounted rope clamp/grab makes rope climbing easy by keeping a permanent tension on the rope. Climbing is also faster and less tiring because the user's body is held upright. For use on 8 mm to 13 mm rope. **Note:** This product is not personal protective equipment (PPE).

Petzl Pantin Left Foot Ascender	7 oz.	**27390**	**$89.95**
Petzl Pantin Right Foot Ascender	8 oz.	**27388**	**$89.95**

4 CMI Foot Ascender
8349

This boot-mounted device maintains tension on the rope, allowing for easier advancement of the main ascender, and promotes better use of body mechanics by keeping your body in an upright position. The body is crafted from anodized aluminum, and the hard-coated cams carry an exclusive wear-out guarantee from the manufacturer. Available in right- and left-foot models. **Dimensions:** 3.1″ x 2.2″. **Weight:** 11.2 oz.

Right Foot Ascender	12 oz.	**27386**	**$64.50**
Left Foot Ascender	12 oz.	**27387**	**$64.50**

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CMI Ultrascenders
1695

Lightweight aluminum Ultrascenders lock in one direction and can be pushed in the other. A safety mechanism is integrated into the handle channel for maximum ease of use in long "over the lip" stretches. Thumb notch in the cam simplifies full cam retraction. Molded, plastic-lined handgrip. Attach on ropes from 8 mm to 1/2″ in diameter. Three holes provided for different clip-in positions, depending on use. Use with optional ascender straps (below) for quick, easy ascents into trees using a sit and stand motion (carabiners are required for attaching straps to Ultrascenders). **Breaking strength:** 4,600 lbs. Red.

Ultrascenders, One Pair	1 lb.	**27506**	**$141.25**

Petzl® Ascension Rope Grabs
3773

Safely climb fixed single ropes!

The spring-loaded, chrome/steel cam provides a secure grip for climbing and also slides upward easily. An ergonomic notched nylon catch allows the cam to be held in the open position for one-handed installation on or removal from the rope. The cam's self-cleaning slot removes obstructions such as mud or ice from the rope. The ergonomic handle provides excellent grip and keeps the handle aligned with the direction you're pulling. Constructed of aluminum alloy, the rope grab accepts ropes from 8mm to 13mm. The right- and left-handed models are color-coded for easy recognition.

Left-Handed Rope Grab	9 oz.	**27398**	**$79.95**
Right-Handed Rope Grab	9 oz.	**27399**	**$79.95**

CMI Ropewalker Ascender
2110

An advanced version of the Gibbs ascender, the Ropewalker can easily accommodate ropes up to 5/8″ in diameter. Features include adjustable spring tension, reversible cable and pin, and "mud vents" which help prevent dirt from caking up on the rope. Red anodized aluminum. **Minimum breaking strength:** 7,500 lbs.

CMI Ropewalker Ascender	7 oz.	**27383**	**$66.50**
	2+		**$63.25**

Petzl® Microcender™
6669

Compact yet durable rope grabbing device.

Features curved cam and rounded teeth to protect rope. Easily slides in one direction, then locks in place as tension is applied in the opposite direction. Fits conveniently in shirt pocket. Should be used on 7/16″ and 1/2″ ropes. **Breaking strength:** 3,500 lbs. (15.57 kN).

Petzl Microcender	7 oz.	**27382**	**$65.95**

Note: 1 kN = 224.8 lbs.

Figure 8 Descender Rings
1703

Designed and engineered for use with a variety of ropes and configurations.

For descending or control over a falling object. The Standard 8 ring can be used with 3/8″ to 1/2″ diameter ropes while the Rescue 8 ring can be used with ropes ranging from 3/8″ to 5/8″ in diameter and features extended "horns" on the upper portion of the large ring to prevent rope from sliding up and locking off.

Aluminum Standard 8 Ring, 6,750 lb. ABS	5 oz.	**27504**	**$9.30**
Aluminum Rescue 8 Ring, 9,000 lb. ABS	10 oz.	**27505**	**$18.25**
Steel Rescue 8 Ring, 12,000 lb. ABS	2 lbs.	**27526**	**$35.95**

Petzl® Stop Descender
6668

Ideal for use in caving and rescue work.

Simply release the handle of the descender to stop or considerably slow your descent. The auto braking feature can be disabled by clipping a carabiner in the hole of the descender's handle. Rope can be inserted or removed without unclipping the descender. Use the descender with clean, flexible rope from 10 mm to 11 mm in diameter. Control surfaces constructed of stainless steel. Safe working load: 330 lbs. (150 kg). Breaking strength: 3,150 lbs. (14 kN).

Petzl Stop Descender	13 oz.	**27381**	**$140.00**

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Stainless Steel Spring Hook
6784

Stainless Steel Spring Hook* – 2″L, 1/4″ Throat Opening*
1 oz. **27500** **$1.55**

Galvanized Steel Spring Hook
6784

Galvanized Steel Spring Hook* – 2-3/8″L, 1/4″ Throat Opening*
1 oz. **27501** **$0.95**

Key Ring Mini Carabiner
6683

Length: 3-1/8″. **Throat Opening:** 1/2″. **Test:** 1,320 lbs. **Note:** Not for personal support.

Key Ring Mini Carabiner*
1 oz. **27527** **$6.50**
10+ **$5.50**

Anchor Shackles with Screw Pin
1506

Shackle bodies are drop-forged carbon steel with working load limit permanently shown on each shackle. Screw pin meets design requirements of Federal Specification RR-C-271, Type IVA, Grade A, Class 2. Standard finish.

1/2″ Shackle (13/16″ Gate)
Working Load Limit: 2 tons
12 oz. **95111** **$9.50**

5/8″ Shackle (1-1/16″ Gate)
Working Load Limit: 3-1/4 tons
1 lb. **95113** **$16.10**

*The Working Load Limit of a chain is the maximum load in pounds that should ever be applied to a chain, even when new. Do not exceed working load limits.

***Note:** Not for personal support.

Snaps
1690

Non-Locking Snap
5-3/16″L, 5/8″ Throat Opening, 5,000 lbs. Test*
9 oz. **27502** **$5.25**

Locking Snaps
6″L, 5/8″ Throat Opening, 5,000 lbs. Test†
11 oz. **27337** **$9.25**
6+ **$8.50**

6-1/16″L, 15/16″ Throat Opening, 5,000 lbs. Test
12 oz. **27153** **$23.25**

Swivel Locking Snap
6-3/4″L, 11/16″ Throat Opening, 5,000 lbs. Test
12 oz. **27338** **$47.25**

***Note:** Not for personal support.

†Meets all current standards for OSHA, NFPA, and ANSI.

D Carabiner
1693

Aluminum, 4-1/8″L, 5/8″ Throat Opening, 5,395 lbs. Test*
2 oz. **27515** **$7.90**
10+ **$7.25**

Ace Locking Screw Gate, 4-1/8″L, 9/16″ Throat Opening, 24KN (5,395 lbs.) Test
3 oz. **27528** **$8.95**

Oval Carabiner
1693

Aluminum, 4-3/16″L, 5/8″ Throat Opening, 4,945 lbs. Test*
3 oz. **27517** **$7.75**
10+ **$6.95**

Aluminum with Locking Screw Gate, 4-1/4″L, 9/16″ Throat Opening, 4,945 lbs. Test*
3 oz. **27529** **$10.25**

***Note:** Not for personal support.

Big D (Offset D)
1693

Aluminum Locking (Offset D), 4-5/8″L, 1-1/16″ Throat Opening, 30KN (6,743 lbs.) Test
4 oz. **27518** **$20.95**

Big D
1693

Steel Locking, 4-5/8″L, 1-1/16″ Throat Opening, 50KN (11,240 lbs.) Test
10 oz. **27519** **$21.95**

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Aluminum Double-Lock Safety Snap Hooks
3781

Meets ANSI Z359.1-1992 standards.

Safety Snap with "O" Ring

Rated: 30kN (6,744 lbs.); **Gate Opening:** 1"; **Dimensions:** 5-1/2" x 2-3/4"

Safety Snap with "O" Ring
5 oz. **27146** **$18.20**

Aluminum Double-Lock Safety Snap

Rated: 27kN (6,000 lbs.); **Gate Opening:** 7/8"; **Dimensions:** 6" x 2-3/4"

Aluminum Double-Lock Safety Snap
7 oz. **27145** **$14.95**

Ladder Hook
3757

Clips on ladder rung for fall protection. Meets or exceeds strength standards for OSHA, NFPA, and ANSI.

Minimum tensile strength: 5,400 lbs. **Length:** 9". **Width:** 4.5". **Bowl depth:** 1.625". **Latch to bowl:** 1.625". **Opens to:** 2.25". **Eye:** 0.75".

Ladder Hook
1 lb. **27356** **$22.75**

Tree Climbing Basics DVD
8306

With this DVD, Peter "Treeman" Jenkins takes you into the world of recreational rope and harness tree climbing. Easy and safe to follow, the step-by-step instructions for tying climbing knots is especially well-done and is excellent for recreational climbers as well as professional tree service training. Includes a handy pamphlet of tree climbing shout signals. Segments include: Tree Selection and Risk Assessment, General Rules for Safe Climbing, Basic Tree Climbing Gear, Setting Your Climbing Ropes, Tree Climbing Knots, Climbing Techniques, and Tree Climbing Ethics. Produced by Big Tree Publishing, Atlanta, GA. **Running Time:** 1 hour 45 minutes.

Tree Climbing Basics DVD
3 oz. ▲ **59627** **$19.95**

Petzl® Carabiners
1693

Petzl® AM'D D Carabiner

Ball Lock, Aluminum with Self-Locking Ball, 4-3/8"L, 7/8" Throat Opening, 28KN (6,295 lbs.) Test**
3 oz. **27533** **$18.95**

Triact-Lock, Aluminum with Automatic Lock/Rapid Unlock, 4-3/8"L, 7/8" Throat Opening, 28KN (6,295 lbs.) Test**
4 oz. **27396** **$18.95**

Petzl® William Pear-Shaped Carabiner

Ball Lock, Aluminum with Self-Locking Ball, 4"L, 1" Throat Opening, 25KN (5,620 lbs.) Test**
4 oz. **27532** **$19.95**

Triact-Lock, Aluminum Locking with Automatic Lock/Rapid Unlock - 4"L, 1" Throat Opening, 25KN (5,620 lbs. Test**
4 oz. **27538** **$19.95**

The Tree Climber's Companion
1696

Second Edition

Revised and expanded. A compact field reference and training manual for tree climbers! Written by Jeff Jepson, a certified Arborist with over 200 illustrations by Bryan Kotwicka. Includes P.R.E.P. (revised climbing system), tying in procedure, climbing with spurs, ascending and descending techniques, knots for the tree climber, safety standards and more. Softcover. 104 Pages.

The Tree Climber's Companion
6 oz. **59625** **$12.50**

▲ **Note:** Non-returnable if opened or seal is broken.

Bentgate Carabiner
1693

Aluminum, 4-1/2"L, 1-1/4" Throat Opening, 4,945 lbs. Test*
4 oz. **27524** **$15.25**

XL-D Autolock Carabiner
1693

Steel, 4-5/8"L, 1-1/16" Throat Opening, 50KN (11,240 lbs.) Test**
10 oz. **27523** **$23.95**

***Note:** Not for personal support. **Meets ANSI standards for acceptable climbing Carabiners.

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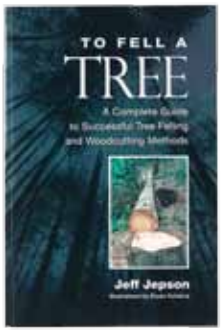

To Fell a Tree
7353

By Jeff Jepson. Illustrations by Bryan Kotwica. Beaver Tree Publishing, 2009. Written for the professional tree cutter as well as the weekend woodcutter to provide a complete guide to successful tree felling and woodcutting methods. Step-by-step methods and more than 200 illustrations. Topics include preparations before the work begins, felling a tree using a three-step procedure, felling difficult trees, and limbing and bucking the tree. Other topics include: potential work hazards, chain saw safety, personal protective equipment, protecting people and property, felling storm-damaged trees, moving limbs and logs, and methods for splitting and stacking wood. 160 Pages. Softcover.

To Fell A Tree 10 oz.	**59624**	**$18.95**

Sewn Loop Runners
6671

1″ Wide tubular webbing has a tensile strength of 6,000 lbs. Use as speedline chokers, for line redirections, in miniature false crotch support systems, as footsteps where none exist, or as limb handles. Color may vary.

1″ x 26″ Runner 2 oz.	**27163**	**$4.95**
	6+	**$4.25**
1″ x 30″ Runner 3 oz.	**27164**	**$5.95**
	6+	**$4.95**
1″ x 36″ Runner 3 oz.	**27165**	**$7.25**
	6+	**$5.95**
1″ x 48″ Runner 4 oz.	**27166**	**$9.95**
	6+	**$8.50**

CMI Double Sheave Micro Pulley
7163

Double sheave rescue model. Purple anodized aluminum sideplates, two 1-1/4″ aluminum sheaves, bushing, and aluminum axle. **Minimum Breaking Strength:** 7,000 lbs. **Rope Capacity:** 1/2″. **Size:** 3.5″ x 1.75″.

CMI Double Sheave Micro Pulley 4 oz.	**27534**	**$43.50**

CMI Micro Rope Pulley
1705

Strongest, lightest pulley of its type available!

Aluminum sideplates hold 1-1/4″ aluminum sheave with permanently lubricated sintered bronze bushing. Works with ropes up to 1/2″ diameter. **Minimum Breaking Strength:** 7,000 lbs.

CMI Micro Rope Pulley 3 oz.	**27511**	**$26.75**

CMI 2-3/8″ Rope Pulley
6857

Accepts rope up to 5/8″ diameter and features a "wide-skirt" sideplate design which holds 2.37″ aluminum sheave with permanently lubricated sintered bronze bushing. **Minimum Breaking Strength:** 6,000 lbs.

CMI Aluminum Pulley 8 oz.	**27509**	**$42.25**

CMI Double-Ended Rope Pulley
6858

Double-end pulleys feature extra rigging hole at bottom of pulley which allows two pulleys to be daisy chained together in block and tackle fashion. Lower hole can be used to direct the load. Stainless steel sideplates hold 2.37″ sheave with bronze bushing. Runs on ropes up to 1/2″ diameter. **Minimum Breaking Strength:** 8,500 lbs.

CMI Double-Ended Rope Pulley 12 oz.	**27514**	**$46.50**

CMI 2″ Double Rope Pulley
6859

Features stainless steel sideplates, aluminum sheaves, becket, and tie-in openings large enough to accommodate two carabiners. Runs on ropes up to 1/2″ diameter. Non-sealed Needle Bearings. **Minimum Breaking Strength:** 11,000 lbs.

2″ Double Pulley 14 oz.	**27513**	**$59.25**

CMI Heavy-Duty Aluminum Rope Pulley
6860

Extra large rigging point accepts largest carabiners – two of them and the extra wide, skirted sideplates fully enclose 5/8″ rope. Features stainless steel sideplates holding a 4″ aluminum sheave with permanently lubricated sintered bronze bushing. Works with ropes up to 5/8″ diameter. **Minimum Breaking Strength:** 16,000 lbs.

CMI Heavy-Duty Aluminum Rope Pulley 2 lbs.	**27508**	**$70.75**

PETZL

Petzl® Tandem Pulley
6670

Double in-line pulley is ideal for making mechanical advantage hauling systems or tyrolean traverses. Provides excellent stability for horizontal traversing. Does not twist on rope. Self-lubricating bearings and fixed sides. Works with ropes up to 1/2″ in diameter. **Minimum Breaking Strength:** 5,400 lbs.

Petzl Tandem Pulley 8 oz.	**27380**	**$63.95**

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Bollard Friction Brakes
1708

Ideal for tedious take downs, easy on ropes.

Great for take downs over buildings, driveways, delicate landscapes, fences, or anywhere else a ground man must lower heavy objects. Helps maximize lifespan of ropes by softening abuse and keeping trash of tree's bark away. Available in two models: a plain type which only lets objects down and a ratchet type which lifts up in addition to letting down. Both are constructed of steel and include 18 ft. of 4″ nylon webbing and winch bar. Shipped assembled. **Tensile:** 16,000 lbs. **Working load limit:** 4,000 lbs.

Bollard Friction Brake, Plain Type	45 lbs.	**27334**	**$357.50**
		2+	**$324.25**
Bollard Friction Brake, Ratcheting Type	44 lbs.	**27335**	**$542.95**
		2+	**$507.95**

Port-A-Wrap III
6684

Lowers wood with ropes safely and easily.

Working lines can be wrapped and unwrapped quickly without removing the Port-A-Wrap III from anchor point. Requires sling (or similar choker) and clevis (or strong carabiner) to anchor to tree. Anchoring point can be either tree being lowered or nearby tree. "Top leg" of tool requires only one wrap and is designed so running line can be easily guided to working destination. "Bottom leg" accommodates several wraps and features long hitching pin for cleating line. Rope retention bar eliminates loss of wrap and can be used for clipping in a pulley for greater mechanical advantage. **Safe working load:** 2,000 lbs.

Large Nickel-Plated Port-A-Wrap III – for use with ropes from 5/8″ to 3/4″	8 lbs.	**27347**	**$181.50**

Fiddle Block with Rope
4342

The mechanical advantage you generate with this set allows you to lift and lower the heaviest of loads. The upper block has an integrated cam device to hold forward progress of rope. Other features include a uni-body anodized aluminum shell (side plates) and hard anodized aluminum sheaves with non-corroding Delrin ball bearings. All other parts are stainless steel. **Tensile Strength:** 8,300 lbs.

Fiddle Block with Rope	6 lbs.	**27357**	**$324.00**

Whoopie Slings
1711

Fit a wide range of tree circumferences.

The rope sheath clamps down on the tail that's spliced through it, restricting any slippage when load is applied. Great for attaching Port-A-Wrap (sold separately). Cordura sleeves for protection in the bend. **Tensile:** 5/8″ dia. sling, 13,000 lbs.; 3/4″ dia. sling, 17,500 lbs. **Working load limit:** 5/8″ dia. sling, 3,250 lbs.; 3/4″ dia. sling, 4,375 lbs.

5/8″ Dia. Rope	2 lbs.	**27342**	**$68.50**
3/4″ Dia. Rope	4 lbs.	**27343**	**$78.75**

Eye Slings
1710

Lower heavy logs or limbs safely.

Tied under the area to be cut or over the limb you're preparing to cut, false crotches allow you to lower heavy logs or tricky limbs smoothly. Made of strong, double braid polyester rope and coated with polyurethane for abrasion resistance. Colors may vary. **Tensile:** 3/4″ dia. slings, 19,600 lbs. **Working load limit:** 3/4″ dia. slings, 4,900 lbs.

Sling, 12′L x 3/4″ Dia.	2 lbs.	**27325**	**$64.25**
Sling, 16′L x 3/4″ Dia.	3 lbs.	**27326**	**$70.25**

Rope and Accessories pages 260 thru 265

Heavy-Duty Snatch Block
1513

Heavy-duty, one ton capacity snatch block is great for a variety of lifting/pulling applications. Made of galvanized steel. Features a 3-1/2″ wheel, side opening and swivel hook. Maximum 1/2″ diameter rope.

Heavy-Duty Snatch Block	8 lbs.	**67323**	**$36.75**

CMI Arborist Pulleys
6685

Ideal for use in false crotch systems.

Upper bushing maximizes sling strength while wide sideplates protect rope from coming in contact with tree bark. Rigging upper bushing is easy, even while wearing gloves, using the knurled knobs. Constructed of stainless steel and aluminum. Two sizes available. One model accommodates rope up to 5/8″ in diameter, has a breaking strength of 28,000 lbs., and a safe load of 2 tons. The other model accommodates 3/4″ diameter rope, has a breaking strength of 40,000 lbs., and a safe load of 3 tons.

5/8″ Capacity	2 lbs.	**27350**	**$121.75**
3/4″ Capacity	6 lbs.	**27351**	**$194.25**

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H.K. Porter Cable Cutter pages 395 & 709

Seedling Protector Tubes pages 162 & 163

Jackson® Professional Tools Three-Pound Engineer Hammer

5786

A double-face, forged steel hammer head makes this tool perfect for heavy hammering, demolition work, and driving spikes or wedges. Three-pound head with 16˝ hickory handle.

Jackson Three-Pound Engineer Hammer 4 lbs.		**67233**	**$16.50**
		4+	**$15.25**

Prolock 1/2˝ Poly Chain Lock

2071

Use as an adjustable tie for just about anything: hang tools, hoses, ropes, fasten gates, support trees, etc.

Ideal for supporting trees and large plants to stakes! Made of durable, high-density polyethylene with UV protection which helps prevent cracking and deterioration. 1/2˝W x 250˙L Reel comes in a convenient dispensing carton for easy storage and dispensing - just cut what you need.

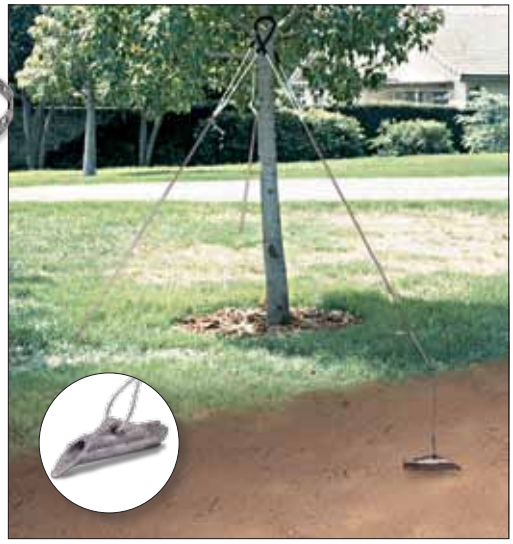
Prolock 1/2˝ Poly Chain Lock 4 lbs.		**79139**	**$24.25**
		4+	**$22.50**

Duckbill® Earth Anchor

6350

No rods, stakes, pipes, or stems above ground!

An upward pull on anchors rotates duckbill into a load-lock position approximately 15° from horizontal. Further tension causes anchor to plane sideways through undisturbed soil, increasing holding power. No rods, stakes, pipes, or stems above ground. Made of tinzalloy aluminum alloy, will not corrode or rust. Cable is 1/16˝ high strength galvanized steel. Driving rod required to drive anchor vertically into undisturbed soil to required depth. Order driving rod separately.



Model 40-DB-1 Duckbill Earth Anchor

Holding capacity to 300 lbs. in normal soil. 1/16˝ x 20˝ Cable. Duckbill is 3˝ Long x 1/2˝ diameter.

Model 40-DB-1	1 oz.	**79130**	**$3.70**
		50+	**$3.40**
		100+	**$3.00**
Driving Rod for Model 40	11 oz.	**79132**	**$7.90**

Tree-Mate-O

4066

Made in USA

Supports newly planted trees up to 2˝ in diameter without girdling!

Adjustable and durable, the Tree-Mate-O provides protective, flexible support, allowing a newly planted tree to gently sway while improving the form, taper, and root strength of the tree. To use, simply drive a "T" or "U" post into the ground 10˝ from the tree, remove the 3˝ snap-out section of the Tree-Mate-O and secure it to the post, position the tree in the ring, replace the snap-out section, wrap the EPDM band around the tree below the Tree-Mate-O ring, and hook band ends up, over the side tabs of the Tree-Mate-O. The Tree-Mate-O can be used with all types of trees and other similar tall plants plus it is reusable. Fits both green "T" type fence and light duty "U" posts. Comes with one EPDM rubber band. Made in the USA.

Tree-Mate-O Tree Support	9 oz.	**79143**	**$6.95**
		24+	**$6.55**
		48+	**$5.95**
EPDM Rubber Band	1 oz.	**79144**	**$0.95**
		25+	**$0.59**

Zip-It Tree Tie

7376

Installs in seconds! The Zip-It incorporates the ease and strength of a UV-rated zip tie with a flexible nylon hose to support trees without destructive scarring. No special tools are needed for installation, and the ties can be easily adjusted during the growth of the tree. The 40˝L Zip-It supports all 15-gallon and most 24˝ box tree installations. Sold individually.

Zip-It Tree Tie, each	2 oz.	**79141**	**$1.75**
		100+	**$1.50**
		400+	**$1.40**

Model 40 DTS Duckbill Earth Anchor Kit

Contains 3 Model 40 Duckbill Anchors with 12˙ of cable attached to each, 3 tree collars, and 3 cable clamps – all pre-assembled. Anchor holds 300 lbs. (135 kg) in normal soil.

Model 40 DTS Kit	12 oz.	**79134**	**$21.95**
		12+	**$18.75**

Model 68-DB-1 Duckbill Earth Anchor

Holding capacity to 1,100 lbs. in normal soil. 1/8˝ x 30˝ Cable. Duckbill is 4-3/4˝ L x 1˝ Diameter.

Model 68-DB-1	5 oz.	**79131**	**$7.65**
		24+	**$6.85**
		96+	**$6.20**
Driving Rod for Model 68	2 lbs.	**79133**	**$9.75**

Model 68 DTS Duckbill Earth Anchor Kit

For tree diameters up to 6˝

Contains 3 Model 68 Duckbill Anchors with 13˙ of cable attached to each with a turnbuckle mid line, 3 tree collars, and 6 cable clamps – all pre-assembled. Anchor holds 1,100 lbs. (500 kg) in normal soil.

Model 68 DTS Kit	3 lbs.	**79135**	**$40.95**
		6+	**$37.75**

New! Model 88 Duckbill Earth Anchor

Ideal for rocky or hard soils, as well as for use with power installation equipment. Holding capacity to 3,000 lbs. in normal soil. 1/4˝ x 42˝ Cable. Duckbill is 6.32˝ L x 2.36˝ Tall.

Model 88 Duckbill Earth Anchor	1 lb.	**79122**	**$17.75**
		24+	**$16.95**
		96+	**$15.75**
Driving Rod for Model 88	6 lbs.	**79124**	**$45.50**

New! Model 88DTS Duckbill® Earth Anchor Kit

This earth anchor kit includes 3 Model 88 Duckbill anchors, 15 feet of wire rope per anchor attached, 3 tree collars, and six 3/16˝ wire rope clamps. Designed for trees up to 11˝ in diameter.

Model 88DTS Duckbill Earth Anchor Kit	7 lbs.	**79123**	**$98.50**

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ArborTie® Heavy Duty Tree Anchoring Kit

8059

Professional anchoring of trees up to a 6″ caliper.

Made in USA

An ideal method for safely securing trees in high wind areas or for any trees that need additional support. The tough Steel Eye Stakes are easy to install, suitable for most soil conditions and can be used multiple times. The 3/4″W ArborTie® Green is a flat, woven polypropylene material that never damages bark and has a 900 lb. Test Strength. Made in the USA. Comes with three heavy duty, 15″ Steel Eye Helix Anchors and three 10′ lengths of ArborTie® Green.

Heavy Duty Arbor Tie Tree Anchoring Kit	5 lbs.	**79214**	**$28.75**
30″ Heavy Duty Steel-Eye Helix Anchors, pack of 12	24 lbs.	**79231**	**$100.95**
		3+	**$91.50**

ArborTie®

6907

Safest method for staking and guying trees!

Made of soft polypropylene materials with an exclusive weave, ArborTie won't cut into tree bark, doesn't unravel like rope or string, and is easy to install. Fastens to any stake or anchoring system with traditional knots or nails. Also ideal for guying, it expands as the tree grows in caliper and thus prevents girdling. **Break strength:** 900 lbs. **Color:** Green. 3/4″ Wide.

ArborTie, 100′ Roll	1 lb.	**79138**	**$22.25**
ArborTie, 250′ Roll	2 lbs.	**79136**	**$42.50**
		4+	**$39.95**
ArborTie, 3,000′ Roll	29 lbs.	**79137**	**$407.00**
		2+	**$362.00**

Ross Tree Gard

1972

Easy to install and adjust.

Helps prevent sun scorch, mower and trimmer damage, rodent girdling and split bark caused by early frosts. Top-quality polyethylene. Measures 24″ high.

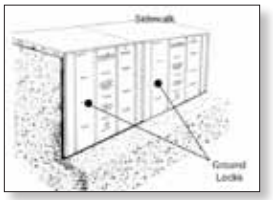
Pack of Two 4 oz.		**13368**	**$6.50**
		24+	**$5.95**
		48+	**$5.50**

Universal Root Barrier Panels

2212

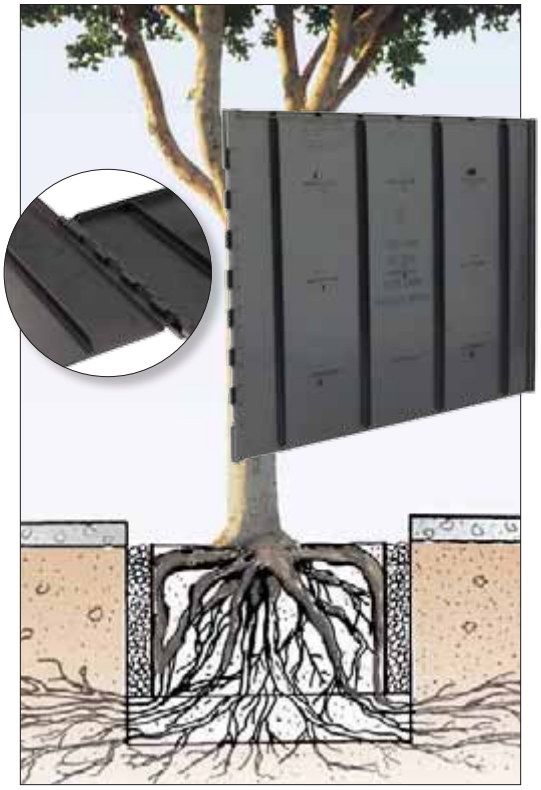
Protect your expensive hardscapes!

These barrier panels are scientifically designed to prevent tree roots from cracking and uplifting sidewalks, curbs, paths and paving. Made of durable and flexible polypropylene with added ultraviolet inhibitors. Available in 2 sizes – 18″ panels or 24″ panels. Both models can be used for either surround or linear applications. The 18″ panels assemble in seconds with the included, easy-to-install joiner strips and are widely used in street tree applications with trees that will reach up to an 18″ trunk caliper at maturity. The 24″ panels feature a zipper joining system that provides for instant assembly, without the use of a joiner strip and are used in conjunction with curb and gutter, parkways and other street tree applications with trees that will reach up to a 24″ trunk caliper at maturity.



Root Barrier Panels direct tree roots downward, stopping roots from damaging sidewalks, curbs and paving. They also prevent roots from uplifting lawns and other planted areas, thus protecting against the high replacement cost of damaged landscapes.

18″H x 24″L Panels, Carton of 26	41 lb.	**79190**	**$189.00**
		4+	**$178.00**
24″H x 24″L Panels, Carton of 20	41 lb.	**79191**	**$175.00**
		4+	**$162.00**



ArborGard+® Tree Trunk Protector

4060

Prevents damage from trimmers, mowers, and rodents.

Polyethylene protector expands with tree growth and will not lose its shape even in the hottest sun. Holes in the protector allow bark to breathe and condition tree to prevent sun scald. A single protector fits trunks up to 4″ in diameter. More than one protector can be joined together for larger trees. **Dimensions:** 9″H x 4″ diameter.

ArborGard+ Tree Trunk Protector 3 oz.		**13369**	**$2.25**
		50+	**$2.05**
		100+	**$1.85**

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Green Garde® JD9-C High Pressure Spray Gun

2128

The spray gun for high pressure spraying jobs!

Extremely tough, versatile and reliable, the JD9-C features stainless steel construction, chemical-resistant Viton® inner seals and a fully adjustable nozzle which quickly switches from a fine mist to a long, pin-pointing stream with a few twists of your wrist. The JD9-C works with all types of herbicides, pesticides and fertilizers and is ideal for small tree spraying, perimeter control of insects, lawn-care chemical application, and various other jobs where high volume, high pressure spraying is needed. To use the JD9-C as a root feeder, the optional root-feeding needle is required. **Maximum Spraying Pressure:** 1,000 psi.

JD9-C Spray Gun 2 lbs.	**13617**	**$159.75**

13613 13615 13614

Optional Flooding Nozzles

1 gpm	1 oz.	**13613**	**$26.25**
2 gpm	1 oz.	**13615**	**$26.25**
4 gpm	1 oz.	**13614**	**$26.25**

Green Garde® Heavy-Duty Root Feeder

Penetrates the tree's root zone up to 10″ deep. Features include stainless steel construction, chrome-plated handle and foot plate, and an O-ring seal around the two-hole tip. **Dimensions:** 41″L x 5/8″ Dia.

Green Garde Heavy-Duty Root Feeder 6 lbs.	**13618**	**$329.75**
Replacement Root Feeder Needle Tip 1 oz.	**13619**	**$55.95**

Arbor Care 15-8-4

2125

Ideal for soil injection for both deciduous and evergreen trees!

To assure a safe, reliable and efficient product, Arbor Care 15-8-4 provides a continuous steady source of slow release nitrogen from methylene diurea (MDU) along with soluble, non-chloride potassium. The N release period, when used for deep root injection, extends three to six months depending on the soil and climate conditions. There is no danger of phytotoxicity. Arbor Care is a true solution, ideal for foliar spray application and soil injection for trees and ornamentals. No special agitation is needed. 15-8-4 is compatible with fungicides, herbicides and insecticides and can be mixed and sprayed in 1 application. 15-8-4 has an extremely low salt index.

Application Rates:

Root Injection Rates: 1 gallon and 5 oz. per 100 gallons of water. 15-8-4 should be injected into the top 4″ to 8″ of soil where feeder roots extend. Start application of fertilizer approximately 2-3 feet from tree trunk and extend the same distance beyond the drip line. A grid pattern should be laid out. Spacing should be every 2-1/2 ft. to a depth of 4″ to 8″. A minimum of 5 gal. of tank mix should be applied per inch of tree diameter. Inject approximately 1/2 gal. of fertilizer solution at each point.

2-1/2 Gallon	26 lbs.	**92909**	**$58.75**
		2+	**$49.25**

Autumn Care 6-12-12

2126

For fall ferilization of trees, ornamentals & vines!

Autumn Care 6-12-12 provides a high ratio of Phosphorus and Potassium in solution for fall fertilization of trees, ornamentals and vines. 6-12-12 contains 40% Slow Release Nitrogen (MDU - methylene diurea) with an extremely low salt index. This slow release nitrogen provides excellent residual release, does not leach and will remain in the soil for spring uptake. Autumn Care is a true solution and is ideal for spray applications for turf, foliar feeding and root injection for trees and ornamentals. 6-12-12 will not settle out of solution and needs no special agitation. It is non-clogging and non-abrasive to equipment with a near neutral pH. 6-12-12 is ideal for IPM units since it is compatible with fungicides, herbicides and insecticides and can be mixed and sprayed in one application.

Application Rates:

Trees & Ornamentals: 1.75 gallons per 100 gallons of water. Apply Fall through early winter to all trees, ornamentals and vines. Inject no lower than 8″ with correctly calibrated fertilizer injector equipment. Each gallon of 6-12-12 contains 0.69 lbs. of nitrogen. Apply 5 gallons of tank mix per inch of trunk diameter.

2-1/2 Gallon	29 lbs.	**92910**	**$53.50**
		2+	**$45.50**

Essential® Plus

2127

Biostimulant & Soil Conditioner!

Essential Plus is a concentrated source of rich, natural organic materials which improve soil structure and improve plant health. A natural rooting hormone in combination with kelp extract stimulate plant growth and rooting while the vitamins, sugars and amino acids found in Essential Plus make plants strong and healthy. Humic acid is also included for improving and enhancing soil quality. Essential Plus is safe for all varieties of annuals, perennials, herbs and vegetables.

Application Rates:

Annuals, Perennials, Herbs & Vegetables: 1 quart makes 16 gallons of solution and covers 160 sq. ft. of planted area (Repeat every 28 days).

Trees, Shrubs & Woody Ornamentals: 1 quart makes 64 gallons of solution and treats 640 sq. ft. (Apply monthly during growing season).

DBH Method: Mix 4 tablespoons with 1 gallon of water per inch of trunk DBH.

Transplants: 1 quart makes 16 gallons of solution and treats four 5-gal. root balls (Repeat every 14 days).

Turf Grass: 1 quart covers 10,666 sq. ft. turf grass (Apply every 28 days during growing season).

2-1/2 Gallon	24 lbs.	**92915**	**$156.50**
		2+	**$142.75**

NASTEK™ Plant Stress Detection Glasses

7815

See plant and turf stress 2 to 10 days before it is visible to the naked eye! Utilizing technology developed by NASA scientists, the premium quality polycarbonate lens blocks out the green spectrum reflected from chlorophyll found in healthy vegetation by making it appear black or gray. Plants and turf impacted by drought, disease, or poor nutrition appear as glowing red, coral, or pink. The polycarbonate frame provides a comfortable wraparound fit, and the quick change snap-in lens system allows you to exchange the plant stress detection lens for the included flame copper sun protection lens (400 nanometer UV A-B-C). Soft case and micro-fiber cleaning cloth included.

NASTEK Plant Stress Detection Glasses	4 oz.	**23382**	**$67.95**

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Jobe's® Tree & Shrub Fertilizer Spikes
7354

The slow-release formula of these fertilizer spikes ensures a constant supply of nutrients at the roots. The pre-measured spikes make fertilizing easy. Simply insert the spikes into the ground at the tree's dripline. Use three spikes for every 2″ diameter of tree trunk measured at chest height. Five spikes feed a tree with a 3″ diameter trunk. The spikes feed for 60 days, and best results are obtained with three yearly applications (spring, mid-summer, and fall).

Fruit Tree Spikes – 8-11-11, Bag of 5 Spikes	1 lb.	**92940**	**$3.15**
		32+	**$2.80**
		160+	**$2.50**
Tree & Shrub Spikes – 15-3-3, Bag of 5 Spikes	1 lb.	**92941**	**$3.15**
		32+	**$2.80**
		160+	**$2.50**

ACECAP® Systemic Insecticide Implants
6645

EPA approved.

Registered for control of Aphids, Bronze Birch Borers, Gypsy Moths, Scale, Pine Tip Moths, Thrips, Web worms, Whitefly, Emerald Ash Borer and 18 other destructive insects. Contains 98.9% Acephate, a non-restricted use systemic insecticide. Within 2 to 4 days after application, the insecticide translocates throughout the tree, kills insects, and provides continued protection. Effective from 12 weeks in heavy insect infestations and up to 18 weeks in deciduous trees. EPA approved for indoor landscaping where foliar sprays and soil systemics cannot be used. 3/8″ in diameter and can be used in trees having trunk diameters of 3″ or greater. Apply at 4″ intervals around the DBH. **Caution:** Not for use in trees where fruit, nuts, or syrup is harvested for sale or consumption.

3/8″, Pack of 25	Ⓡ10	3 oz.	**92911**	**$29.25**
			4+	**$27.75**
3/8″, Pack of 75	Ⓡ10	6 oz.	**92921**	**$74.95**
			4+	**$70.95**
New! Acecap Tree Care, 1/2″, 50 per Pack	Ⓡ10	1 lb.	**92931**	**$66.75**
			4+	**$59.95**

MEDICAP MD® Systemic Nutrient Implants for Trees
6646

12-4-4

Contains a mixture of highly water soluble nutrients including nitrogen, phosphoric acid, soluble potash, iron, manganese, and zinc to stimulate tree growth. Especially helpful in trees affected by confined root areas, construction damage, poor soil conditions, disease stress, air pollution, flood or frost damage, transplant shock, fire damage, or surgery or pruning shock. Safe for use in trees with edible fruits and nuts and all ornamental deciduous and conifers. Results can be seen 21 to 30 days from date of application, with maximum control in 45 days. Implants can last for 2 to 3 years.

3/8″, Pack of 25	Ⓡ10	3 oz.	**92912**	**$25.95**
			4+	**$22.50**
3/8″, Pack of 75	Ⓡ10	6 oz.	**92917**	**$66.50**
			4+	**$59.95**

DIEHARD™ Mycorrhizal Inoculants
6640

Mycorrhizal fungi promote rapid root development by colonizing roots. Ideal for landscape trees and shrubs and forestry applications as well!

DIEHARD™ Transplant

For inoculation of transplanted landscape trees and shrubs. Diehard™ Transplant contains endo- and ectomycorrhizae fungi, biostimulants, beneficial bacteria, and Horta-Sorb® water management gel to help slow the release of soluble components in the inoculant. **Application:** An 8 oz. bag treats 8 1-gallon containers or 2 caliper inches of a tree or shrub. Mix in backfill when planting.

Diehard Transplant, 20-8 oz. bags	11 lbs.	**92962**	**$132.25**
		4+	**$123.25**

DIEHARD™ Root Reviver

Use as a vertimulch for established trees in decline as well as for newly transplanted trees and shrubs. Root Reviver contains 16 strains of mycorrhizal fungi, biostimulants, beneficial bacteria, and Horta-Sorb® water management gel. **Application:** For established trees, apply a 6 oz. scoop per hole (2″ wide x 10″ deep) in a 2.5 ft. grid. For stress recovery in small and newly planted trees and shrubs, punch 4 holes per inch caliper around the root ball, apply a 6 oz. scoop per hole, and water in. For transplants, apply four 6 oz. scoops per inch caliper or per foot diameter root ball and mix with backfill in upper 8″ of the planting hole.

Diehard Root Reviver, 25 lb. box	26 lbs.	**92966**	**$94.75**
		2+	**$88.75**

DIEHARD™ Root Dips

Use these root dips to inoculate the bare roots of plants before planting. The root dips work in nearly all species except rhododendrons, azaleas, and laurels. DieHard™ Root Dip contains low host specificity endo- and ectomycorrhizae fungi. DieHard™ Ecto Root Dip contains ectomycorrhizae fungi only and is ideal for aspen, arborvitae, beech, birch, chestnut, fir hemlock, hickory, oak, pecan, pine, poplar, and spruce. Both root dips contain Horta-Sorb™ SM, a co-polymer gel which absorbs and holds water to keep plant roots from drying out. Also contain humic acids, biostimulants, beneficial bacteria, soluble sea kelp, and yucca plant extracts to promote rapid root development. **Application:** Mix a 15 oz. package of DieHard™ Root Dip with 10 gallons of water to treat 3,000 seedlings. Mix a 15 oz. package of DieHard™ Ecto Root Dip with 25 gallons of water to treat 10,000 seedlings.

Diehard Root Dip, 15 oz. package	1 lb.	**92964**	**$27.50**
Diehard Ecto Root Dip, 15 oz. package	1 lb.	**92965**	**$17.75**

DIEHARD™ Injectables

Use with root injection equipment to treat mature and newly planted trees and shrubs. The injectables work in nearly all species of trees and shrubs except rhododendrons, azaleas, and laurels. DieHard™ Injectable contains both endo- and ectomycorrhizal fungi while DieHard™ Ecto Injectable contains ectomycorrhizal fungi only. The ecto-only formula is ideal for alder, arborvitae, aspen, basswood, beech, birch, chestnut, chinquapin, fir, hemlock, hickory, larch, linden, madrone, oak, pecan, pine, poplar, and spruce. **Application:** Mix contents of 8 oz. bag with 100 gallons of water and inject on a 2-1/2 foot grid pattern.

Diehard Injectable, 8 oz. bag	9 oz.	**92967**	**$39.25**
		12+	**$35.25**
Diehard Ecto Injectable, 8 oz. bag	9 oz.	**92968**	**$25.50**
		12+	**$22.95**

Ⓡ10 Restricted. Cannot be sold in CA.

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Manufacturer's Warranty Lifetime

Gilmour GARDENING INNOVATION

Gilmour® 6-Ply Commercial Duty Water Hoses

8358

3/4″ Inside diameter for maximum flow.

Made in USA

Easy to handle and weather resistant, this 3/4″ industrial strength hose features six-ply double-reinforced construction, a burst strength of 500 psi, a metal spring protective collar to prevent kinks at the faucet, and heavy duty brass couplings with O-ring for tight seals. Manufacturer's lifetime warranty. Made in the USA.

3/4″ x 50′L Hose 9 lbs.	**67740**	**$36.75**
	4+	**$33.95**
3/4″ x 75′L Hose 14 lbs.	**67741**	**$49.95**
	4+	**$47.50**
3/4″ x 100′L Hose 20 lbs.	**67742**	**$65.95**

Manufacturer's Warranty Lifetime

Flexogen® Water Hoses

6318

The last hose you'll ever have to buy!

5/8″ Hose has patented 8-layer construction for long life. Glossy smooth cover resists abrasion. Extremely lightweight and flexible. Resists kinking and twisting in all types of weather. Burst strength of 500 psi. Features heavy-gauge brass couplings and FlowGuard collar to prevent kinks near faucet. Lifetime warranty from the manufacturer.

5/8″ x 75′L Hose 12 lbs.	**67736**	**$50.50**
	4+	**$48.25**
5/8″ x 100′L Hose 16 lbs.	**67738**	**$67.75**
	2+	**$64.50**

Gilmour GARDENING INNOVATION

Gilmour® Select-A-Spray Nozzle

7292

This rugged nozzle features a five-position dial with seven spray patterns: full action (cone, sharp stream, full flow), gentle shower, jet, flood, and mist. A hold-open clip allows for continuous spraying, and self-adjusting "duck" packing provides a lifetime leak proof seal. The nozzle features a heavy-duty die cast zinc body, cushioned vinyl grip, and all-brass valve system with permanent adjusting nut.

Gilmour Select-A-Spray Nozzle 13 oz.	**67744**	**$13.95**

Gilmour GARDENING INNOVATION

Gilmour® Power Flow Heavy Duty Nozzle

8359

This durable nozzle won't break or leak and features an adjustable spray (cone, sharp stream, full action). For optimal performance, use with 5/8″ or larger hose.

Gilmour Power Flow Heavy Duty Nozzle 1 lb.	**67743**	**$10.95**
	6+	**$9.50**

Brass Adjustable Nozzle

7197

Heavy-duty, solid brass construction with four large openings at the nozzle tip for full flow. The precise tip angle eliminates side spray and it is adjustable from fine spray to needle stream to heavy rinse. Fast 3 turns from close to open. Replaceable front and rear O-ring seals for leakproof shut-off. 3/4″ GHT (garden hose) sized threads.

Brass Nozzle 5 oz.	**67728**	**$10.75**
	6+	**$9.95**

Manufacturer's Warranty 2 Year

Dual Outlet Electronic Water Timer

7293

Easy to set and easy to read, this timer features a customizable run time from 1 to 360 minutes, a rain delay option (24, 36, or 73 hours), and a manual on/off button for instant watering. The timer helps eliminate over-watering and can be set to water during ideal times to minimize evaporation. Other features include a large LCD display, a Safeguard valve that automatically closes when the battery is low, and a metal swivel coupling with an ergonomic grip. Two-year warranty from the manufacturer. **Power:** 2 AA batteries (not included).

Dual Outlet Electronic Water Timer	2 lbs.	**67745**	**$42.25**

Gilmour High Rise Telescoping Sprinkler

8333

This long-lasting metal head sprinkler with extra-large water jet is mounted on a three-legged telescoping tripod which reaches a height of 58″ and produces water coverage up to 8,500 sq. ft. (106 ft. diameter) at 90 psi! Other features include spiked feet for added stability, trip levers for full or partial coverage with reversing full circle setting, deflector dial to set distance, a patented impulse arm which saves water by eliminating back and side splash, and a diffuser screw which allows for easy fingertip adjustment of water stream for even coverage. The sprinkler head has 3/4″ NPT connection to base.

Gilmour High Rise Telescoping Sprinkler	9 lbs.	**67739**	**$77.95**
		3+	**$70.95**

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Manufacturer's Warranty Lifetime

Yard Butler™ Free Standing Swivel Hose Reels

7597

This hose reel features a swiveling turret design that rotates 360° for ultimate convenience. The reel holds up to 200 feet of 5/8″ hose, enabling it to deliver water anywhere within a total coverage area of over three acres. Features all-steel construction with an anti-rust finish. Select from Post Mount or Patio Base models (Post Mount model is designed for embedding in concrete to 11.5″). Manufacturer's limited lifetime guarantee.

Hose Reel Diameter: 18″. **Post Mount Model Dimensions - Mid-Section Post:** 24″, 2″ square. **Post Mount Receiver:** 18″ total length with 11.5″ buried length. **Total Height Above Ground When Installed:** 4′. **Patio Base Model Height:** 40″.

Free Standing Swivel Hose Reel with Post Mount 21 lbs.	O	**67722**	**$136.50**
Free Standing Swivel Hose Reel with Patio Base 22 lbs.	O	**67726**	**$157.25**
6′ Hose/Faucet Extension 1 lb.		**67731**	**$13.95**

Manufacturer's Warranty Lifetime

Yard Butler™ Wall Mount Swivel Hose Reel

7597

A pivoting swing arm allows this hose reel to swivel 180° so that the hose can be used at any angle from the wall. The reel holds up to 100 feet of 5/8″ hose and features an extra wide, heavy-duty wall bracket mounting bar. Features all-steel construction with an anti-rust finish. Limited lifetime guarantee from the manufacturer.

Wall Mount Swivel Hose Reel 16 lbs.	**67723**	**$104.95**

6′ Hose/ Faucet Extension

7597

Heavy-duty 500 PSI burst strength Flexogen hose extends faucet 6′ for easier connection and flow control; impact-resistant polymer spike holds hose faucet securely.

6′ Hose/Faucet Extension 1 lb.	**67731**	**$13.95**

Manufacturer's Warranty Lifetime

Liberty Garden™ Industrial Two-Wheel Hose Reel Cart

7760

This rugged hose reel features a low center of gravity to prevent it from tipping over during use and holds up to 300′ of 5/8″ hose. An attached wire basket is perfect for storing tools. Features 13 gauge steel construction with a powder coat finish, all brass/galvanized fixtures, a 90° solid brass swivel, a 5′ inlet hose, and two pneumatic tires with metal hubs. Assembly required. Manufacturer's limited lifetime warranty.

Liberty Garden Industrial Two-Wheel Hose Reel Cart	O	38 lbs.	**67725**	**$199.95**

Manufacturer's Warranty Lifetime

Ames Reel Easy® Hose Reel

8343

Extra large capacity!

This large capacity hose reel holds 400′ of 5/8″ hose and features a heavy-duty frame, a 6′ leader hose, a chrome handle with cushion grip, and four 10″ pneumatic wheels. Assembly required. Manufacturer's lifetime warranty.

Ames Reel Easy Hose Reel	O	47 lbs.	**67720**	**$195.95**
			2+	**$179.25**

O Oversize. Ships at Oversize rate. See Shipping Information for details.

Far View Rain and Sprinkler Gauge

5480

English

For lawn, garden, nursery, or general use. Capacity: 5″ with 0.1″ graduations. Magnifier funnel makes accumulation easy to read from a distance! Mounted on a 16″ sharpened steel frame. Push it into your lawn, garden, or field as a rain or sprinkler gauge. Also mounts on a post.

Far View Rain and Sprinkler Gauge 11 oz.	E	**88990**	**$12.50**
		12+	**$11.25**

Backpack Sprayers pages 174 thru 177

[search engine powered by magazooms.com]

Deep Drip™ Tree Watering Stakes
7205

Targeted irrigation that goes straight to the roots!

Promotes strong root development by delivering water and fertilizer directly to tree roots. Water flows freely through stake holes while an internal filter prevents dirt and debris from entering the stake. No lost water to evaporation or run-off. Deep root-level saturation allows shorter watering periods while stakes aerate the surrounding soil. Can be placed in the hole during planting or driven around an existing tree.

14″ Stake – For shrubs, flower pots, and small trees	4 oz.	**79161**	**$8.95**
		12+	**$8.25**
		25+	**$7.50**
24″ Stake – For average box trees and palms	10 oz.	**79162**	**$9.25**
		12+	**$8.50**
		25+	**$7.75**
36″ Stake – For established trees and large palms	1 lb.	**79163**	**$9.95**
		12+	**$9.25**
		25+	**$8.25**

Ooze Tube® Tree Watering System
4617

Ideal for establishing trees at under-irrigated sites!

Designed by an ISA®-certified arborist, the patented Ooze Tube uses a unique drip emitter system to control the rate of water flow to a tree. Drip emitters attach to the bottom of the Ooze Tube, allowing the water in the tube to empty gradually as inlet pressure in each drip emitter drops. When the water output is reduced, the tree is weaned off the controlled water supply, sends out feeder roots, and becomes better established. The Ooze Tube installs easily and securely using a wooden stake (included). Made in USA.

15-Gallon Ooze Tube – Fits up to 2″ diameter tree. Drips for up to 2 weeks. Includes tube, one drip emitter, and a wooden stake.	2 lbs.	**79159**	**$12.25**
		30+	**$11.75**
25-Gallon Ooze Tube – Fits 2″ to 5″ diameter tree. Drips for 1 to 4 weeks (depending on the number of drip emitters used). Includes tube, four drip emitters, and a wooden stake.	2 lbs.	**79160**	**$16.75**
		20+	**$15.95**

New! DeWitt DEW Right Tree Watering Bag
4896

20-Gallon tree watering bag designed to provide a drip irrigation system directly to tree roots over an extended period of time. Helps eliminate the water stress new trees endure after transplanting while preventing water run-off and evaporation. Bag is emptied in 5-8 hours and should be refilled 1-2 times per week. A single bag fits trees up to 3″ dia. For larger trees, attach 2 bags together to fit trees 3″-5″ dia. Heavy-duty, green-coated polypropylene bags are UV stabilized to endure extended exposure to sunlight. Safe to use with nutrient or chemical additives.

DeWitt DEW Right Tree Watering Bag	11 oz.	**79150**	**$13.95**
		12+	**$12.50**
		36+	**$11.50**

Treegator®
6648

Made in USA

Reduces watering frequency by 50% and significantly reduces transplant shock.

Made of reinforced, UV treated 10 mil polyethylene. Fits around tree trunk. Simply fill to desired level and let water drip. One Treegator® holds approximately 20 gallons of water and drips 6 to 10 hours with two holes open. Use more than one Treegator® by zipping bags together. One bag fits tree 1″ - 4″ in diameter. Two bags fit tree 5″ - 12″ in diameter. Heavy duty nylon zippers, polypro straps, and strong, durable heat sealed edges. Five-year manufacturer's warranty. Made in the USA.

Treegator	12 oz.	**79128**	**$21.50**
		10+	**$19.95**
		20+	**$18.50**
		30+	**$16.95**

Treegator® Jr. Pro
6649

Made in USA

The ideal portable drip irrigation system for low-branch trees and shrubs!

One unit holds approximately 15 gallons of water, with a drip time of up to 6 hours. Helps reduce tree loss and enables you to use less water to irrigate more trees. Made of brown, tough PVC material with strong heat-sealed seams. Removable vinyl emitter system helps prevent clogging. Fits trees up to 4″ in diameter. Three-year manufacturer's warranty. Made in the USA. **Note:** For best results, use on level ground.

Treegator Jr. Pro	1 lb.	**79129**	**$19.55**
		10+	**$17.95**
		20+	**$16.80**
		30+	**$15.75**

[search engine powered by magazooms.com]

X Scape® Area Calculator
6899

When it comes to measuring landscape beddings, greens, tee boxes or bunkers, the X Scape area calculator is truly the only tool you need.

A true time saver! X Scape accurately determines areas based on a three-component system which uses ultrasonic waves to measure precise distances from a perimeter to a fixed point, then calculate and maintain a summary total of the area — in feet^2 or meter^2! With X Scape, you simply place the yellow 360° transponder onto its staff which is then positioned in the pin slot of a standard cup or stuck in the ground. Measurements are made by walking the perimeter with the X Scape calculator and gathering readings by aiming the hand unit toward the transponder. Depending on the size and shape of the area you measure, between 10 and 36 (36 is recommended) readings will be sufficient to generate an accurate result, but the more readings you take, the more accurate your reading will be. And the results are displayed right on the screen. Includes area calculator, transponder and transponder staff.

Technical Data: Maximum Distance: 65 ft./20m. **Resolution:** 0.1 ft./0.01m. **Accuracy:** ±1%. **Maximum Area:** 13266.5 ft^2/1232.5 m^2. **Minimum Area:** 3 ft^2/1m^2. **Current Consumption:** 20mA.

X Scape Area Meter Set	C	2 oz.	**91107**	**$695.00**
AA cell Alkaline Batteries, pack of 4		7 oz.	**02352**	**$3.25**

New! Turfchek II - Rough Grass Height Cut Gauge
4833

Ideal for golf courses and athletic fields! Use to determine the actual cutting height of the grass, as well as the quality of the cut. Made of high impact plastic with grass height printed on it in inches and millimeters. Simply push the two outside teeth into the soil until the serrated teeth at the bottom of the unit come in firm contact with the soil. The inch side shows height of cut in 1/4″ increments from 1/2″ to 2-1/2″ and then in 1/2″ increments from 2-1/2″ to 5-1/2″ tall. The millimeter side shows height of cut in 6 mm increments from 6 mm to 60 mm and then 12 mm increments from 60 mm to 132 mm tall.

Turfchek II - Rough Grass Height Cut Gauge	8 oz.	**13336**	**$38.95**

Grass Height Prism Gauge
4322

Features graduated measurement lines inscribed on one face of the prism that are superimposed on the turf allowing you to measure the actual height of the turfgrass and compare it with mower bench settings. The "quality" of cut may also be inspected by comparing the turf over the viewing plane of the prism. Graduated lines are inscribed at 0.10 intervals to 0.5 inch, then at 0.75, 1.0, and 1.5 inch.

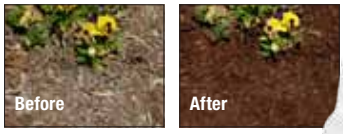
Grass Height Prism Gauge	2 lbs.	**13325**	**$219.00**
		2+	**$207.00**
Optional Film Transparency – An overlay with graduation lines at 0.025″ intervals which allow the user to more closely measure the height of cut.	1 oz.	**13326**	**$10.95**

Green Lawnger™ Turf Colorant
7013

Restores healthy, brilliant green color to dormant or discolored turf.

Easily applied using a sprayer, the colorant yields a natural color which lasts 10 to 14 weeks or until colored grass is removed by mowing. Won't wash off or wear off. Control color shade by the amount applied. One gallon covers 4,000 to 12,000 square feet of turf, depending on the rate of colorant used, type and condition of grass, and turf color desired. A 1:7 colorant to water ratio is recommended for dormant turf and a 1:15 ratio on other turf. May also pre-apply to divot sand mix to give mix a natural green color.

1 Gallon	9 lbs.	**77006**	**$68.95**
		4+	**$63.25**
2.5 Gallons	23 lbs.	**77007**	**$158.95**
		2+	**$151.50**



Mulch Magic®
6651

Bring the color back to faded mulch!

Simply mix this solution with water and apply to faded mulch using a backpack or hand-held sprayer. Higher use rates provide a darker, longer lasting color. Color lasts on most mulches for more than a year. Mixing 3 to 4 oz. of Mulch Magic® in a gallon of water will treat 200 to 400 square feet of mulch.

1/2 Gallon Jug, Dark Brown – Provides the look of Eastern hardwood bark	7 lbs.	**77001**	**$43.25**
		4+	**$40.50**

Talstar® Xtra Granular Insecticide
7755

Featuring Verge™ Granule Technology

Proven to eliminate dangerous fire ant colonies in four hours or less, this broad spectrum control insecticide is labeled for use against most ants, as well as chinch bugs, fleas, ticks, mole crickets, crane flies and many other lawn pests. Approved for broadcast lawn, perimeter and mound treatments on a wide variety of application sites, including residential lawns, institutional grounds, around buildings (public, commercial and industrial), parks, recreational areas, and athletic fields. Unique sand core granular structure prevents granules from drifting off target and provides better penetration into mulch.

Active Ingredient: Zeta-Cypermethrin, 0.05%; Bifenthrin, 0.20%. **Broadcast Application Rate:** 0.125-0.50 lbs. / Acre.

Talstar Xtra Insecticide, 25 lb. Bag 25 lbs.	B10	**17115**	**$39.75**

Amdro® Yard Treatment Fire Ant Bait
8338

This bait provides 3-way protection against fire ants: it kills the Queen, it sterilizes new invading Queens, and it prevents new mounds from forming. Broadcast treatment treats up to 10,000 sq. ft. and provides season long control. For best results, apply when ants are active (typically when soil temperature is greater than 60°F). Warning: This product is not for use on vegetable or other food crops, timber or plants grown for sale or other commercial use, or for commercial seed production, or for research purposes.

Amdro Yard Treatment Fire Ant Bait, 5 lbs. 5 lbs.	B10	**17100**	**$25.50**

B10 Restricted. Cannot be sold in CA.

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Extech® Digital Soil Moisture Meter with 8″ Probe

7990

Utilizing an 8″ heavy-duty stainless steel probe, this meter measures soil moisture content from 0 to 50%. Data hold freezes the reading on the display, and the min/max function records minimum and maximum moisture readings. The meter offers easy one-hand operation and features a rugged, water-resistant housing. Batteries and sensor cap included.

Moisture Content Measurement Range: 0 to 50%. **Maximum Resolution:** 0.1%. Accuracy ±(5% + 5 digits). **Power:** 4 AAA batteries (included). **Dimensions:** 14.7″ x 1.6″ x 1.6″. **Weight:** 9.4 oz.

Extech Digital Soil Moisture Meter with 8″ Probe	14 oz.	**77151**	**$279.95**

Kelway® Soil pH and Moisture Meter

3050

On-the-spot soil pH and moisture percentages.

A sensitive electrode measures pH values from 3.5 to 8, soil moisture from 0 to 100%. Requires no chemical, distilled water, or outside electric power source. Numerous readings can be easily taken over a large area. 6-1/2″L. Leather-like case with belt loop, conditioning film, and full instructions included.

pH Accuracy: ±0.2. **Moisture accuracy:** ±10%.

Kelway Soil pH and Moisture Meter	11 oz.	**94302**	**$125.75**
Replacement Conditioning Film, 12 sheets	1 oz.	**94304**	**$11.95**

Lincoln Soil Moisture Meters

3052

Easy to use, each soil moisture meter reads in a scale of "1" to "10," with "1" being completely dry and "10" indicating full saturation. To use, insert brass probe into soil. Sensing element is located in the tip of probe. A chart on the back of each unit indicates relative moisture readings. To calibrate, simply adjust meter to any soil type. Complete instructions, Soil Moisture Management Handbook, and wilt point tables for various plants are included. All meters operate on one AA battery (included).

9″ Probe – Top Read	1 lb.	**77104**	**$95.25**
		3+	**$90.75**
24″ Probe – Top Read	1 lb.	**77105**	**$101.95**
		3+	**$96.95**
36″ Probe – Top Read with T-handle	15 oz.	**77311**	**$111.95**
		3+	**$106.25**
AA cell Alkaline Batteries, pack of 4	7 oz.	**02352**	**$3.25**

Turf-Tec Infiltration Rings

2233

Determines the downward flow of water through the turf and soil!

Use this field instrument to measure the rate of water infiltration on all turfgrass areas. This tool consists of a 6″ inner ring and a 12″ outer ring with a gripped handle attached for easy insertion into the soil. Made of sturdy, rustproof galvanized metal.

Turf-Tec Infiltration Rings	6 lbs.	**76976**	**$240.00**

Turf-Tec Infiltrometer

3046

Determine the infiltration rate of your turf easily to keep turf diseases to a minimum!

You can use the percolation rate of your turf to adjust irrigation rates to save water and minimize runoff. To use, simply set timer for 15 minutes and insert double ring cutting blades into ground about 2″ until depth limiting ring is against surface. Fill both rings with clean water and start timer. Fifteen minutes later, when timer beeps, the position of the pointer on the scale gives you water infiltration rate for 15 minutes in inches or millimeters. Multiply amount registered by four to determine infiltration rate for one hour. Features include sturdy, welded construction, double ring cylinder for accuracy, case hardened cutter blades, saturn depth limiting ring, countdown timer with beeping alarm, quick on/off switch, water level scale in inches and millimeters, and easy to read pointer. Measures 33″H x 17″W x 7″D.

Turf-Tec Infiltrometer	C	11 lbs.	**76946**	**$474.95**
			2+	**$443.50**

C Combination English and Metric

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Dynamax SM150 Portable Soil Moisture Kit

4768

Offering fast measurement of volumetric soil moisture content, this portable kit includes an SM150 soil moisture sensor and an HH150 hand-held soil moisture meter. Using the kit, you can easily monitor the status of thousands of plants daily. Simply insert the SM150's 2″L stainless steel pins into the soil and press the "on-read" button on the HH150 meter. Measurements are obtained in seconds and appear on the meter's LED display. The SM150 sensor can be inserted into most soils and substrates with very little force, preserving the soil structure around the measurement rods and ensuring accurate representative readings. The research-grade sensor is stable across wide ranges of temperatures and salinity. 1m cable and carrying case also included.

SM150 Soil Moisture Sensor - Accuracy: ±3.0% vol over 0 to 70% vol and 0 to 60°C. **Measurement Range:** 0 to 100% vol but less accurate above 70% vol. **Salinity Error:** ±5% vol over 100 to 1,000 mS.m-1 and 0 to 60% vol. **Power Requirement:** 5 to 14 VDC, 18mA for 1s. **Operating Range:** -20°C to 60°C. **Environment:** IP68. **Dimensions: Overall,** 5.63″L x 1.57″ dia.; Probe, 2″L. **Weight:** 0.22 lbs.

HH150 Meter - Accuracy: 0.5% of full scale over 5°C to 40°C. **Resolution:** 0.1% of voltage reading. **Battery:** 2 AAA batteries (included). **Battery Life:** 10,000 readings. Complies with CE, FCC, and ROHS.

Dynamax SM150 Portable Soil Moisture Kit	R	2 lbs.	**77379**	**$635.00**

Dynamax TH150 Portable Soil Moisture Kit

4769

Ideal for golf course, sports turf, and greenhouse applications, the TH150 kit is easy to install and reliably measures volumetric soil moisture content to help determine irrigation requirements. The kit includes an SM150 soil moisture sensor, an HH150 soil moisture meter, a cable, and a 26″L handle for convenient installation. To obtain a measurement, insert the SM150's 2″L stainless steel pins into the soil and press the HH150 moisture meter's "on-read" button. Measurements are shown within seconds on the meter's LED display. The SM150 sensor can be inserted into most soils and substrates with very little force, preserving the soil structure around the measurement rods and ensuring accurate representative readings. The research-grade sensor is also stable across wide ranges of temperatures and salinity.

SM150 Soil Moisture Sensor - Accuracy: ±3.0% vol over 0 to 70% vol and 0 to 60°C. **Measurement Range:** 0 to 100% vol but less accurate above 70% vol. **Salinity Error:** ±5% vol over 100 to 1,000 mS.m-1 and 0 to 60% vol. **Power Requirement:** 5 to 14 VDC, 18mA for 1s. **Operating Range:** -20°C to 60°C. **Environment:** IP68. **Dimensions: Overall,** 5.63″L x 1.57″ dia.; Probe, 2″L. **Weight:** 0.22 lbs.

HH150 Meter - Accuracy: 0.5% of full scale over 5°C to 40°C. **Resolution:** 0.1% of voltage reading. **Battery:** 2 AAA batteries (included). **Battery Life:** 10,000 readings. Complies with CE, FCC, and ROHS.

Dynamax TH150 Portable Soil Moisture Kit	R	3 lbs.	**77380**	**$675.00**

Dynamax TH300 Portable Soil Moisture Kit

4770

Combining measurement reliability with storage capability, the TH300 is perfect for recording volumetric soil moisture content measurements on golf courses, on sports turf, and in greenhouses. Such measurements allow for reliable determination of irrigation requirements. Designed for quick installation, the kit includes an SM150 soil moisture sensor, an HH2 soil moisture meter, a cable, and a 26″L handle. In just seconds, soil moisture content is measured, displayed, and stored in memory. Up to 1,100 time-stamped readings can be stored in the HH2 meter for later download to a PC. Soil moisture content is measured with little or no temperature or salinity effects, and results are shown on the HH2's LCD display. The research-grade SM150 sensor can be inserted into most soils and substrates with very little force, preserving the soil structure around the 2″L measurement rods and ensuring accurate representative readings.

SM150 Soil Moisture Sensor - Accuracy: ±3.0% vol over 0 to 70% vol and 0 to 60°C. **Measurement Range:** 0 to 100% vol but less accurate above 70% vol. **Salinity Error:** ±5% vol over 100 to 1,000 mS.m-1 and 0 to 60% vol. **Power Requirement:** 5 to 14 VDC, 18mA for 1s. **Operating Range:** -20°C to 60°C. **Environment:** IP68. **Dimensions: Overall,** 5.63″L x 1.57″ dia.; Probe, 2″L. **Weight:** 0.22 lbs.

HH2 Meter - Soil Moisture Range: 0 to saturation, 0 to 1,500 mV. **Measurement Accuracy:** ± (0.13% of mV reading + 1.0 mV). **Resolution:** 1 mV. **Memory:** Up to 1,100 readings. **Battery:** 9V alkaline (included). **Sealing/Environment:** IP52 protected from deposit of dust and water drops falling at an angle of 15 degrees from the vertical on the front face only. **Operating Temperature Range:** 0 to 40°C. **Display Panel:** 16 x 2 character LCD with 7 button keypad. **Connector:** 1 x male 25-pin D connector for RS-232 link to PC and also for connecting sensors. Complete with push-on protective cap. **PC Communications:** Windows PC retrieval software supplied with RS-232 cable. **Dimensions:** 5.91″x 3.15″x 1.57″. **Weight:** 1 lb.

Dynamax TH300 Portable Soil Moisture Kit	R	3 lbs.	**77381**	**$1100.00**

Greenlee® Wire and Valve Locator

1 Manufacturer's Warranty 1 Year

8699

Quickly and accurately track buried irrigation system wiring and valves with this precision instrument. Locate wire paths, buried valve solenoids, wire breaks, and more. A high power transmitter allows for extended long range locating and use on higher resistance wire paths. Adjustable transmit power allows you to select the best signal for maximum performance. A lightweight, long-nose receiver wand lets you move quickly and locate long wire paths. The receiver provides both audible and visual indications of signal strength. To receive audible signals, use either the rugged headphones which block out ambient noise or the speaker. Includes transmitter, receiver, headphones, ground stake, carry case, and complete instructions. One year limited warranty from the manufacturer.

Transmitter Frequency: 1748 Hz. **Transmitter Power:** 750 Vpp, 285 Vrms. **Automatic Shut-Off:** Transmitter, turn-off bumper; Receiver, 90 minutes. **Power:** Transmitter, 8 D cell batteries (included); Receiver, 1 9V battery (included). **Battery Life:** Transmitter, 50 hours nominal; Receiver, 100 hours nominal. **Case Dimensions:** 33.5″ x 8.25″ x 3.75″.

Greenlee Wire and Valve Locator	11 lbs.	**43186**	**$680.25**

R Restricted. Cannot be sold internationally.

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1 WATERMARK Monitor Model 900M
3763

°Fahrenheit / °Celsius
Conserve water, energy and reduce leaching of applied nutrients with data gathered from the WATERMARK Monitor! This battery-operated data-logger automatically reads up to 8 WATERMARK sensors and allows you to set the frequency of readings. The Monitor mounts easily in the field and the sensors are placed in the root zone at depths where monitoring is desired. Real-time soil moisture readings can be viewed in the field with the press of a button. Software is included to program the Monitor and download the collected readings which can be viewed in a graphical display on your computer. The WATERMARK Monitor includes an outdoor mount, a 9V battery, and 8 sensors (1 soil temperature and 7 WATERMARK). Optional soil moisture and soil temperature sensors are available.

Soil moisture accuracy: ±5%. **Soil temperature accuracy:** ±5°.

WATERMARK Monitor Model 900M	C	4 lbs.	**77392**	**$737.95**
			2+	**$705.75**
WATERMARK Soil Moisture Sensor		4 oz.	**77372**	**$41.75**
			10+	**$39.00**
Soil Temperature Sensor		3 oz.	**77373**	**$41.75**
			10+	**$39.00**

WATERMARK Monitor Model 900M Data Shuttle Kit
Designed for downloading and transferring data collected by the WATERMARK 900M Monitor. Allows you to quickly capture and transfer collected data to a host computer for analysis. The one-touch download button and status indicator light make for easy operation and assure the user of a successful download. Provided software allows the Shuttle to interface with the WaterGraph program. Comes complete with battery, cable, nylon case, and instructions, MMC card, card reader (USB connection), and software.

Data Shuttle Kit	8 oz.	**77394**	**$275.00**

Note: The Data Shuttle does not have a display screen and is not intended to be a reading device.

Soil Probes
pages 304 thru 307

2 Watermark Soil Moisture Sensor and Digital Meter by Irrometer
3053

Solid state, electrical resistance type sensor provides accurate readings from 0 to 200 centibars, covering the entire soil moisture range required in irrigated agriculture! In operation, soil moisture is constantly being absorbed or released from sensor. As soil dries out, sensor moisture is reduced and electrical resistance between electrodes is increased. Resistance is read by the hand-held WATERMARK digital meter (sold separately below) which gives a digital readout in centibars of soil water suction. Digital meter features soil temperature compensation which adjusts for the effect soil temperature has on electrical resistance reading.

Temperature scale can be adjusted to use either °F or °C scales. To use, bury sensor to desired depth, connect alligator clips located on meter to the sensor, and view results on digital display. Sensor is manufactured from non-corrosive parts and measures .875″ dia. x 3.25″L. Meter can read an unlimited number of WATERMARK Sensors. **Accuracy:** ±3%. **Dimensions:** 3-3/4″W x 5-3/4″H.

WATERMARK Digital Meter with carrying case	C	11 oz.	**77383**	**$280.00**
Soil Moisture Sensor with 5′ cable	C	3 oz.	**77382**	**$38.75**
			10+	**$35.25**

3 IRROMETER Soil Sampling Access Tubes
7227

Easily obtain soil water samples from the root zones of crops. The collected samples can then be analyzed for nitrate levels, salinity, EC, and other chemical elements associated with soil water management in irrigation (fertigation). Simply place the soil sampling access tube in the soil and use the soil sampling vacuum pump to create a full vacuum for capturing the sample. A ceramic tip allows soil water to enter the tube. Each soil sampling access tube comes complete with a suction line, stopper, and clamp. Remove the sample using a disposable soil sampling syringe.

12″ Soil Sampling Access Tube	5 oz.	**77673**	**$31.95**
24″ Soil Sampling Access Tube	8 oz.	**77674**	**$31.95**
Soil Sampling Vacuum Pump	10 oz.	**77677**	**$99.50**
Disposable Soil Sampling Syringe	2 oz.	**77678**	**$7.50**
30″ Soil Coring Tool (required with initial order), Provides proper hole diameter for best contact between porous tip and soil. 30″ Long.	1 lb.	**77393**	**$147.75**

4 Delmhorst® KS-D1 Digital Soil Moisture Tester
6812

An unbeatable system for measuring soil moisture available to plants.

Features reliable temperature stable semiconductor technology with calibration checks. Operates on one 9V battery (included). Gypsum blocks are cast around stainless steel electrodes. Range is 0.1 to 15 bars tension. 3-1/2″ Digital display has 0-100 arbitrary scale. Meter readings can be converted into terms of available soil moisture or soil moisture tension by referring to calibration curves found in operating instructions. Carrying case, battery, and instructions included. Order gypsum blocks separately.

Delmhorst KS-D1 Digital Soil Moisture Tester	2 lbs.	**77056**	**$348.50**
Model GB-1 Gypsum Block with 6′ leadwire, Pack of 10	11 oz.	**77054**	**$132.00**
		3+	**$120.00**

C Combination English and Metric

Aquaterr Digital Soil Moisture, Temperature, and Salinity Meters
www.forestry-suppliers.com

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"Jet-Fill" Tensiometer Model 2725 ARL

3058

For fixed installation in the field for irrigation control research.

Vacuum gauge with large 2″ easy-reading dial face is graduated from 0 to 100 centibars of soil suction. Hermetically-sealed, resilient, neoprene jacket protects against weather and shock. Neoprene O-ring stem seal permits dial gauge to be removed or oriented in convenient reading position with perfect vacuum seal assured, and thus provides desirable flexibility for transportation and use of instrument.

A push of the button instantly removes accumulated air and fills unit with water. Replaceable screw-on porous ceramic tip has ten times the transmission rate of other ceramic tips, yet limits air collection to less than 1/3 of other tips. Angle molded port in sidewall provides rigid, strong connection and keeps vacuum gauge filled with water. Large reservoir holds sufficient water for months of servicing.

Clear plastic, 7/8″ O.D., rigid, heavy-wall body tube essential for accurate readings at high soil suction values is immune to weather effects and soil chemical action. The vent screw located on the side of the gauge is used to equalize the pressure at your elevation. Size of unit is distance from installation line to center of tip. Installation line molded into body tubing. Complete instructions included.

12″	M	15 oz.	**77385**	**$147.50**
			5+	**$130.95**
24″	M	1 lb.	**77387**	**$162.75**
			5+	**$145.95**

Accessories

30″ Soil Coring Tool (required with initial order), Provides proper hole diameter for best contact between porous tip and soil. 30″ Long.	1 lb.	**77393**	**$147.75**
Service Kit (required with initial order), Includes Vacuum Hand Pump, Filling Bottle Assembly, Soil-Moisture Blue Fluid, Thin Blade Screwdriver, Monthly Chart Forms	2 lbs.	**77396**	**$265.95**
Replacement Screw-On Tip	2 oz.	**77398**	**$31.95**

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Model R Irrometer

3059

General-use Irrometer for row, tree, and field crops.

The Model R is the standard one-piece Irrometer for general use with irrigated row, tree, and field crops, but can also be used in greenhouse and nursery applications or for monitoring Vadoze Zones. Features a tough Butyrate plastic body that is impervious to soil chemicals or electrolysis, a fixed porous ceramic tip designed to give quick response to variations in soil moisture, and a hermetically sealed gauge that indicates soil suction from 0 to 100 centibars (gauge operates counter-clockwise). A large reservoir with a screw cap for filling holds a reserve supply of water to replace water lost by action of drying soil. Partial unscrewing of cap releases air, and refills the tube from the reservoir. All joints are permanently sealed. Irrometer fluid, supplied with the Service Unit accessory, adds color to the water for easy water level observation. The Model R Irrometer requires the Service Unit accessory and the Soil Coring Tool with the initial order. **Range:** 0-100 cb (kPa). **Operating Temperature:** >20° F.

6″	M	12 oz.	**77500**	**$78.50**
			5+	**$72.75**
12″	M	14 oz.	**77501**	**$81.75**
			5+	**$75.75**
24″	M	1 lb.	**77503**	**$87.95**
			5+	**$81.75**
36″	M	1 lb.	**77504**	**$94.25**
			5+	**$87.75**

Accessories

30″ Soil Coring Tool (required with initial order), Provides proper hole diameter for best contact between porous tip and soil. 30″ Long.	1 lb.	**77393**	**$147.75**
Service Unit Kit (required with initial order), Includes Vacuum Hand Pump, 1 oz. Irromerter Fluid, 25 Monthly Chart Forms.	10 oz.	**77516**	**$63.25**
Test Pump Service Unit, For Model R Irrometer. Same as Service Unit, except hand vacuum pump has test gauge for checking the exact calibration of IRROMETER gauge at the same time air is evacuated.	15 oz.	**77517**	**$103.75**
Replacement Irrometer Fluid, 1 oz. bottle of concentrated dye for coloring water. Use 1/2 capful per gallon of water to fill about 20 empty Irrometers.	2 oz.	**77519**	**$6.75**

Tensiometer "Quick-Draw" Soil Moisture Probe Model 2900F

3060

Quick, accurate direct readings of available moisture from saturation through optimum plant growth range.

Reaction time in sandy loam is 3-5 minutes, in heavy clay 12-15 minutes. Large 2″ diameter dial gauge reads directly in centibars of soil suction, the basic measurement used by soil scientists. Probe readings are unaffected by differing soil types, soil temperatures or salinity conditions. Probe indicates moisture conditions in relationship to plant growth and is invaluable as a teaching aid to show basic forces involved in soil moisture movement. Requires no adjustments or calibration, no batteries to deteriorate or replace. As a water-filled tensiometer, it measures hydraulic force of soil water through the porous ceramic tip of instrument and can be easily maintained for years of continuous service. Comes complete in protective case with accessory coring tool, cleaning rod, and instructions. Length is measured from mid-portion of ceramic tip upward to a point approximately 2-1/2″ below gauge.

18″ Model	4 lbs.	**77364**	**$401.00**
Replacement Sensing Tip with O-Rings	1 oz.	**77400**	**$21.25**
Replacement O-Ring Tip Seal (two required)	1 oz.	**77405**	**$1.95**

How Tensiometers and Irrometers Work.

Tensiometers and Irrometers continuously measure and display soil moisture at the root zone of the plant. Using this information, you know when to irrigate and when not to. You can prevent over-irrigation, waste of water and fertilizer. You can also increase the yield and quality of crops by eliminating soil sampling, calibrations and guesswork from your irrigation program. These instruments consist of a sealed water-filled tube, equipped with a porous tip at the bottom. The tube is installed in the ground at desired root zone depths. In dry soil, water is drawn out of the instrument. The reduced water volume in the instrument creates a partial vacuum which is registered on the gauge. This vacuum draws water back into the tube as irrigation and rainfall reverse this action. Readings are in centibars of soil suction – showing you exactly how hard the roots need to work to extract needed moisture from the soil.

M Metric

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Turf-Tec Soil pH Meter
2897

Ideal for field testing soil pH in the mat, thatch and above and below the root zone for a complete pH reading of the entire root zone profile - without taking samples! Thanks to the adjustable foot, pH can be easily checked at the 1″, 2″, 3″ and 4″ depths to see the variation of the soil layers and determine whether pH problems exist in different layers of the profile. Simply insert the probe to desired depth, allow to stand for 60 seconds, and read the pH scale display window. For all turfgrass areas. Made from weatherproof non-corrosive metal. **Readout:** 3.5 to 9.0. **Overall Height:** 48″ Tall.

Turf-Tec pH Meter 3 lbs.		**94328**	**$299.00**

Hanna Instruments® Soil Test™ Direct Soil EC Tester
4631

Lightweight and portable, this pocket tester directly measures soil conductivity and temperature. The penetration probe features a built-in temperature sensor, allowing for measurements that are automatically temperature compensated. The conductivity range can be calibrated at one point, and tester calibration is done in a standardized solution. Includes tester, 4.5″ penetration conductivity probe, calibration screwdriver, batteries, and instructions.

Range: Conductivity, 0.00 to 4.00 mS/cm (dS/m); Temperature, 0.0 to 50.0°C. **Resolution:** Conductivity, 0.01 mS/cm; Temperature, 0.1°C. **Accuracy:** Conductivity, ±0.05 mS/cm (0.00 to 2.00 mS/cm), ±0.30 mS/cm (2.00 to 4.00 mS/cm); Temperature, ±1°C. **Temperature Compensation:** Automatic, temperature coefficient (β) fixed at 2%/°C. **Calibration:** Manual 1 point. **Battery:** Four 1.5V batteries (included). **Operating Temperature:** 0 to 50°C. **Dimensions:** 6.4″ x 1.6″ x 1.0″. **Weight:** 3.5 oz.

Hanna Instruments Soil Test Direct Soil EC Tester	5 oz.	**76868**	**$86.00**
Replacement Batteries; six 1.5V Alkaline	2 oz.	**76206**	**$16.75**

Hanna Instruments® Direct Soil pH Measurement Kit
4628

Using this comprehensive kit, you can easily test the pH of soil directly or after preparation of a diluted sample. The specialized soil pH and temperature probe features a rugged, conical tip that can be inserted directly into moist or soft soil. When working in harder soils, use the included plastic auger to perforate the ground. The waterproof meter features a multi-level LCD display that shows pH and temperature, two buttons for simple operation, on-screen tutorial messages, automatic temperature compensation, and automatic one-point or two-point calibration. Battery percentage is displayed during startup, and the Battery Error Prevention System alerts you if low battery power could adversely impact readings. Includes meter, pH electrode, soil auger, soil preparation solution, pH 4.01 buffer solution sachet, pH 7.01 buffer solution sachet, cleaning solution sachet for inorganic soil deposits, cleaning solution sachet for organic soil deposits, 100 mL plastic beaker, batteries, hard carrying case, and instructions.

Range: pH, -2.00 pH to 16.00 pH; Temperature, 23.0°F to 221.0°F (-5.0°C to 105.0°C). **Resolution:** pH, 0.01 pH; Temperature, 0.1°F (0.1°C). **Accuracy at 20°C:** pH, ±0.02 pH; Temperature, ±1.0°F (up to 140°F), ±2°F (outside) or ±0.5°C (up to 60°C), ±1°C (outside). **pH Calibration:** Automatic one-point or two-point calibration with two sets of memorized buffers (Standard 4.01, 7.01, 10.01 or NIST 4.01, 6.86, 9.18). **Temperature Compensation:** Automatic, 23°F to 221°F (-5°C to 105°C). **pH Electrode:** Glass body, pre-amplified pH electrode for soil measurement with internal temperature sensor, DIN connector and 1m (3.3′) cable included. **Battery:** 3 AAA 1.5V (included). **Battery Life:** Approximately 1,200 hours of continuous use, auto-off after 8 minutes of non-use. **Operating Environment:** 32°F to 122°F (0 to 50°C), RH max 100%. **Weight:** 7.2 oz.

Hanna Instruments Direct Soil pH Measurement Kit	3 lbs.	**76850**	**$360.00**
Replacement pH Electrode	5 oz.	**76851**	**$140.95**
AAA cell Alkaline Batteries, pack of 4	2 oz.	**02362**	**$3.25**

Kelway® SST Salinity Tester
3045

Great for controlling fertilizer input and content of your soil!

Determines electrical conductivity of soil and features a direct readout gauge plus a chart which tells your soil condition. Readings available on two scales: millimhos for soil solutions and PPM for hydroponics or water. By using this tester, you can save money through reduced use of excess fertilizers and profit improvement from better crops and larger yields. Includes built-in electrode (cell), pre-marked test jar to help you make a soil in water solution easily, battery, thermometer, and carrying case. **Range:** 0-10 millimhos; 0-6400 ppm. **Dimensions:** 5″ x 3″ x 2″.

Kelway SST Salinity Tester	C	1 lb.	**76239**	**$193.00**
			2+	**$183.00**

C Combination English and Metric

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Torsional Vane Shear Tester
3043

Use in the field or lab to quickly determine shear strength of cohesive soils.

To use, place rod tip on reasonably flat soil surface at least 25 mm in diameter, insert vanes into soil, and turn torque head until failure develops. The point at which vanes break free in soil is automatically locked on the dial so you can record soil's maximum shear value. Divisions on dial are as small as 0.05 kg/cm², allowing visual interpretation to nearest 0.01 kg/cm². Three vanes are provided so you can select the kg/cm² range you need: 1, 0.2 or 2.5. Use tester simultaneously with a penetrometer to rapidly evaluate internal friction degree of soil in shear strength or to determine if soil is essentially cohesive. Tester is approximately 3-1/8″L. Two-pocket carrying case with belt loop included. Case is 8″L x 6″W x 2-1/2″H.

Torsional Vane Shear Tester	M	9 oz.	**77299**	**$204.00**

Soil Compaction Tester
3042

Test soil compaction down to subsoiling depths.

Long, stainless steel rod (with depth marks of 3″, 6″, 9″, 12″, 15″, and 18″) can be inserted to 24″, allowing you to test compaction levels as far down as subsoiling depths. As you insert rod, compaction needle rotates within the stainless steel housing, indicating compaction levels in psi (in three ranges: 0-200 psi, 200-300 psi and 300+ psi) along a color-coded dial. Incremental 3″ depth markings along shaft help you monitor and record changes in compaction levels at different depths. Features two interchangeable stainless steel tips (3/4″, 1/2″), and rugged, molded plastic housing/handle.

Soil Compaction Tester	E	5 lbs.	**77143**	**$244.50**
1/2″ Replacement Tip		1 oz.	**77146**	**$21.95**
3/4″ Replacement Tip		1 oz.	**77147**	**$31.95**

E English M Metric C Combination English and Metric

agraTronix™

Agratronix™ Soil Compaction Tester
2938

Quickly determine the extent of subsurface soil compaction with this tester! A color-coded, stainless steel dial indicates if growing conditions are good (green), fair (yellow), or poor (red). The dial is liquid-filled to reduce shock. The tester features a durable molded housing, rubber hand grips, and a 24″ stainless steel rod with an adjustable shock collar that guards against damage during transport or storage. Two tips are included (1/2″ tip for firm soil and 3/4″ tip for soft soil) and store conveniently in the tester housing.

Penetration Depth: up to 24″ in 3″ increments. **Testing Range:** Good growing conditions, 0 to 200 psi; Fair growing conditions, 200 to 300 psi; Poor growing conditions, 300 psi and above.

Agratronix Soil Compaction Tester	5 lbs.	**77153**	**$203.35**

Pocket Penetrometer

Forestry Suppliers Lang Penetrometer
3041

Measures soil compaction quickly, accurately, and conveniently.

Press probe into soil and read resistance to penetration expressed in pounds. Reads from 1 to 20 in unit increments and calibrates easily with adjustment at base of unit. Green Generation model features color-coded scale of recommended readings for the forest industry, agriculture, and turf managers and allows you to calculate soil compaction from 0 to 630.77 psi. Measures 18-3/4″ long.

Green Generation Model for Turf Managers			
1 lb.	E	**77108**	**$265.00**
		2+	**$250.00**

Pocket Penetrometer
3044

Measures the compressive strength of soil easily.

Spring-operated penetrometer is used to measure compressive strength of soil by pushing a ground and polished 1/4″ diameter loading piston into soil to a depth of 0.25″. End area is 0.05 square inch. Compressive load in tons per square foot or kg per square cm is indicated by reading scale on piston barrel. Maximum reading reach is shown by friction ring. Made of anodized aluminum. Allen wrench and plastic carrying case with belt loop are included. 6-1/4″ Long.

Pocket Penetrometer			
5 oz.	C	**77114**	**$55.75**
		3+	**$52.95**
Adapter Foot for use in sensitive soils. 1″ Dia.			
1 oz.		**77116**	**$20.00**

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Apogee Instruments Quantum Light Meters

7564

Manufacturer's Warranty 1 Year

These meters approximate radiation between 400 and 700 nanometers, the most important wavelengths for driving photosynthesis and plant growth. The meters measure instantaneous Photosynthetic Photon Flux (PPF) in µmol m^{-2} s^{-1}. A blue lens filters spectra for improved response. Each meter stores up to 99 manually stored data points and automatically stores 99 consecutive 30-minute averages. Other features include a cosine-corrected head and sun and electric calibration. One-year manufacturer's warranty.

Measurement Range: 0 to 2,999 µmol m. **Operating Environment:** 0°C to 50°C; less than 90% non-condensing relative humidity up to 30°C, less than 70% relative humidity from 30°C to 50°C. **Power:** standard 3 Volt coin cell battery.

MQ100 Quantum Light Meter 6 oz.		**92527**	**$347.00**
MQ200 Quantum Light Meter with Remote Sensor 8 oz.		**92528**	**$399.00**

Soil Stability Kit

7374

A valuable tool for quantifying soil stability, this affordable kit allows for rapid data collection and easy field evaluation of relatively undisturbed soil samples. Using the kit, 18 samples can be tested in the field in 10 minutes with no drying or weighing required. This is the specified kit in the Monitoring Manual for Grassland, Shrubland and Savanna Ecosystems; Interpreting Indicators of Rangeland Health; and National Rangeland Inventory Protocol.

Soil Stability Kit 12 oz.		**78511**	**$42.85**

Chlorophyll Content Meter Model CCM-300

8309

Designed specifically for affordable, efficient testing of difficult-to-measure samples, this meter provides reliable results regardless of the size, thickness, or shape of the leaf or sample. Easily obtain the chlorophyll content of conifer needles, turfgrasses, immature rice, small leaf grain grasses, fruit, CAM plants (agave, prickly pear, cactus, and pineapple), arabidopsis, moss, lichens, stems, petioles, and filamentous algae on rocks. This lightweight meter uses a proven fluorescence ratio technique that allows light to be absorbed by the sample at one wavelength and then re-emitted as fluorescence at longer wavelengths. Measurement modes include single point measurement, measurement averaging for 2 to 30 samples, averaging with 2 sigma outlier removal, and median determination. The meter features 2 GB of non-volatile flash memory, a USB 1.1 output, and a user-friendly 240 x 320 pixel color touch screen and data display. CCM-300 Fluorometer, fiberoptic, sample clip, battery charger, 4 AA NiMH rechargeable batteries, USB cable, and manual included.

Measured Parameters: CFR or Chlorophyll Fluorescence Ratio - fluorescence emission ratio of intensity at 735nm/700nm or readout of relative chlorophyll content in mg/m-2. **Detector:** Two solid state, high sensitivity detectors. Band limiting filter sets provided. Dual wavelength detection at the same time. 700nm to 710nm and 730nm to 740nm. **Measurement Area:** 3mm diameter circle, external diameter of 4mm. Instrument will reliably measure samples that are much smaller than 3mm. **Resolution:** Ratio 0.01 or 1 mg/m^{-2}. **Repeatability:** Dependent on signal strength. For samples with low signal strength, averaging of multiple measurements is recommended. For samples with good signal strength, ratio values of ±0.03 or better are common. **Storage Capacity:** Up to 2 GB of non-volatile flash memory. **Operating Temperature Range:** 0 to 50°C. **Power:** 2 rechargeable AA batteries. **Auto-Off Interval:** Programmable from 0 to 20 minutes (with no key press or download). **Dimensions:** 4.7″ x 3.5″ x 1.2″.

Chlorophyll Content Meter, Model CCM-300	1 lb.	**76420**	**$2695.00**

Chlorophyll Content Meter Model CCM-200 Plus

8309

Measures chlorophyll in intact leaf samples.

A valuable tool for use in improving nitrogen and fertilizer management programs as well as in studies focusing on crop stress, leaf senescence, plant breeding, health determination, and quality control. This compact, handheld meter provides fast, accurate chlorophyll readings using intact leaves of plants and crops – no detachment of samples necessary! Using precision LEDs that emit specific wavelengths in the red and infrared ranges, the meter analyzes the ratio of the two wavelengths to determine the chlorophyll concentration index (CCI). To obtain a measurement, simply press the meter's chamber to the sample. Black foam on the testing chamber blocks the outside light while optical analysis is made, and each measurement only takes seconds. **The meter utilizes three measurement modes:** straight single measurements, user selectable from 2-30 measurement averaging, and user selectable 10-30 measurement averaging with applied sigma 2 standard deviation to eliminate fliers and replace with additional measurements. The meter features a built-in data logger with 8 MB of memory for storing up to 160,000 straight measurements or 94,000 measurements with GPS data. Measurements can be entered, reviewed, or deleted with the meter or

transferred to a computer. A 132 x 28 pixel graphics display features high resolution characters and on-screen graphic display of data. The meter features UPS 1.1 standard I/O for downloading data and NMEA 0183 GPS data input through an RS-232 port. Software and case included.

Measured Parameters: Optical absorbance in two wavebands. **Detector:** Silicon photodiode with integral amplifier for absorbance measurement and source power monitoring for temperature compensation. **Measurement Area:** 3/8″ diameter circle. **Resolution:** ±0.1 CCI unit. **Accuracy:** ±1 CCI unit. **Storage Capacity:** 160,000 straight measurements; 94,000 measurements with GPS data. **Operating Temperature Range:** 0 to 50°C. **Power:** 9V alkaline battery. **Auto-Off Interval:** 4 minutes (with no key press or download). **Dimensions:** 6″L x 3.25″W x 1″D.

Chlorophyll Content Meter Model CCM-200 Plus	1 lb.	**76425**	**$1295.00**

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DELMHORST INSTRUMENT CO. WHEN ACCURACY IS THE POINT

F-2000 Hay Moisture Meter Package

8370

1 Manufacturer's Warranty 1 Year

Easily monitor hay moisture content, a key factor in producing better quality hay and minimizing economic losses. Proper moisture control at baling is critical for reducing mold development and preserving leaves, color, and feed value. Features include a temperature-stable circuit which ensures calibration is not affected by ambient temperature, built-in battery and calibration check, and an ergonomic design. Features a digital display that indicates moisture content from 6% to 40%. The F-2000 can average up to 100 accumulated readings and displays the average and highest of accumulated readings. Package includes meter and 10″ prod for testing standard bales. Three-year manufacturer's warranty. **Power:** One 9V battery (included).

F-2000 Hay Moisture Meter Package	1 lb.	**79041**	**$293.50**

10″ prod 79042

Delmhorst® Hay Moisture Meter Replacement Parts & Accessories

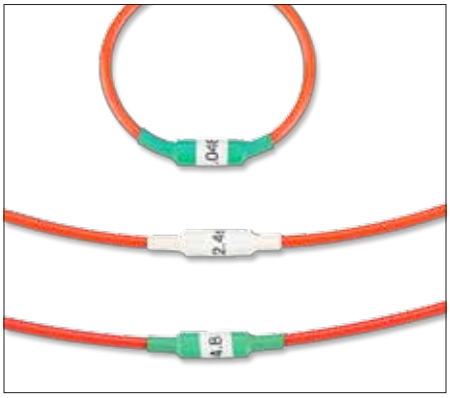
Use the 18″ or 36″ prods for testing hay in large square bales or round bales. A short pin prod is also available for testing hay in the windrow. Each prod requires a handle (79043, sold separately) for use. The handle attaches to the connector on top of the meter and minimizes the stress placed on the meter case when testing high density or larger bales.

10″ Replacement Prod	4 oz.	**79042**	**$57.50**
18″ Prod	4 oz.	**79044**	**$57.50**
36″ Prod	9 oz.	**79045**	**$67.00**
Short Pin Prod	3 oz.	**79046**	**$38.00**
H-4 Handle for 79044, 79045, and 79046 Prods	14 oz.	**79043**	**$61.50**
Carrying Case for Moisture Meter	2 lbs.	**79047**	**$35.25**

Vegetation Sampling Hoops

7375

Designed for use in vegetation surveys. These brightly colored hoops are constructed from high quality, vinyl-coated steel cable with bonded color stripes to mark each quarter circle.



0.5 Square Meter Large Hoop	M	6 oz.	**78503**	**$25.00**
4.8 Square Foot Large Hoop	E	6 oz.	**78504**	**$25.00**
9.6 Square Foot Large Hoop	E	8 oz.	**78505**	**$25.00**
0.25 Square Meter Small Hoop	M	8 oz.	**78506**	**$22.00**
0.96 Square Foot Small Hoop	E	2 oz.	**78507**	**$22.00**
1.92 Square Foot Small Hoop	E	4 oz.	**78508**	**$22.00**
2.4 Square Foot Small Hoop	E	4 oz.	**78509**	**$22.00**
0.048 Square Foot Very Small Hoop	E	1 oz.	**78510**	**$5.95**

M Metric E English

agraTronix

2 Manufacturer's Warranty 2 Year

Agratronix™ MT-PRO™ Grain Moisture Tester

8709

With a direct readout for over 40 different grain scales, you can easily customize this tester to meet your measurement needs. Multi-Point™ calibration allows for fine tuned adjustments to specific moisture ranges of each scale as opposed to adjusting the entire curve. The tester features a built-in calibration button and an average button for displaying the average of saved test results. Other features include a high-frequency capacitive circuit for improved accuracy and an enhanced temperature compensation circuit. Results are shown on a backlit, multi-language display. Carrying case with shoulder strap included. Two-year manufacturer's warranty.

Operating Range (Moisture): 5% to 40% depending on grain tested. **Operating Range (Temperature):** 32°F to 113°F (0°C to 45°C). **Repeatability:** ±0.5% in normal moisture range for stored grain. **Accuracy:** ±0.5% in normal range for stored grain. **Display Resolution:** 0.1% moisture. **Power:** two 9 volt batteries (included).

Agratronix MT-PRO Grain Moisture Tester	3 lbs.	**79028**	**$309.50**

Oakfield Hay Sampler

8384

Constructed of heavy-duty stainless steel, this sampler quickly and easily extracts samples from hay bales for investigation of moisture and nutrient content. The sampler features a replaceable serrated screw-on tip that cuts through hay. Once the sample is obtained, simply remove it from the side of the tube, with nothing to take apart. The Hex Adapter (sold separately) is required for operation and allows you to use the sampler with a power drill.

Hay Sampler with Removable Tip and Dowel	1 lb.	**79036**	**$138.95**
Replacement Screw-On Serrated Tip	1 oz.	**79038**	**$25.95**
Hex Adapter for 1/2″ Chuck - For use with power drill	4 oz.	**79037**	**$29.95**

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77172

LaMotte

LaMotte® Combination Soil Test Sets With Soil Booklets

3063

Choose from two inexpensive combination soil test kits for measuring pH, nitrogen, phosphorus, and potassium. Easy, step-by-step instructions for test procedures. Measurements are made in graduated plastic test tubes. Test result readings are measured against mylar-laminated color charts. **Results:** High, Medium, Low. Two booklets, "A Study of Soil Science" and the "LaMotte Soil Handbook," provide background information and data for interpretation of test results.

30 pH, 15 nitrogen, 20 phosphorus, 15 potassium, 6 test tubes with stand, 2 booklets and polypropylene case	A	3 lbs.	**77170**	**$56.95**
60 pH, 30 nitrogen, 40 phosphorus, 30 potassium, 10 test tubes with stand, 2 booklets and polypropylene case	A	9 lbs.	**77172**	**$102.50**
Demineralized Water, 60 ml		3 oz.	**77777**	**$5.50**
			12+	**$4.95**

1

LaMotte

1 LaMotte® Soil Analysis Kit

3065

Designed to help you maintain balanced fertility levels in agricultural soils.

Tests for nitrate nitrogen, potassium, phosphorus, magnesium, manganese, aluminum, sulfates, ammonia nitrogen, nitrite nitrogen, chlorides, ferric iron, calcium, humus, and pH. Contains solutions and equipment for 50 tests for each element and 100 tests for pH. **Results** for nitrite nitrogen, nitrate nitrogen, phosphorus, and potassium are given in lbs./acre. Humus results are given in a %. All other parameters are given in ppm. Major element qualitative tests can be performed on green plant tissue for nitrogen, phosphorous, and potassium. Complete instructions included.

LaMotte Soil Analysis Kit	A	18 lbs.	**77070**	**$633.95**
Refill Package	A	9 lbs.	**77069**	**$387.95**

2

2 LaMotte® Model AM-31 Soil Test Kit

3062

All the essential materials for establishing an accurate, detailed soil evaluation program.

Individual modules of chemical test equipment provided for soil pH, nitrogen, phosphorus, and potassium. **Results:** lbs./acre. Each module includes detailed instructions and sufficient reagents for making 50 tests. Also contains LaMotte Soil Texture and Classification Unit, soil sampling tube, and soil sampling bags. Soil science handbook and complete instructions included. Materials are arranged in lightweight carrying case.

LaMotte Model AM-31 Soil Test Kit	A	16 lbs.	**77173**	**$432.95**
Refill – provides reagents for 50 tests	A	7 lbs.	**77174**	**$240.95**

3

3 LaMotte® Model AM-32 Soil Test Kit

3064

Test for nine important factors in plant nutrition.

Provides four individual modules of test equipment covering nine test factors important in plant nutrition. **Module A:** calcium and chlorides. **Module B:** ammonia and nitrite nitrogen. **Module C:** magnesium and manganese. **Module D:** iron, aluminum, and sulfate. Reagents provided for making 50 tests on each factor. **Results:** ppm. Soil science handbook and complete instructions included. All materials supplied in lightweight carrying case.

LaMotte Model AM-32 Soil Test Kit	I	17 lbs.	**77175**	**$542.25**
Refill – provides reagents for 50 tests	I	9 lbs.	**77176**	**$322.50**

LaMotte

LaMotte® Soil Texture Unit

3066

Classify soils according to their clay-silt-sand composition.

Included are three calibrated conical tubes with a stand, in addition to dispersing reagent and flocculating reagent that work together to speed settling of finely divided particles. Instructions explain method for breaking down soil samples into sand, silt and clay fractions. "A Study of Soil Science" provides background information on weathering and its relationship to soil formation. Provides for 50 tests.

Texture Kit	2 lbs.	**77330**	**$66.50**
Refill – provides reagents for 50 tests	6 oz.	**77331**	**$17.95**

A Extra Charge if Shipped by Air. See Shipping Information for details.
I Extra Charge if Shipped by International Air. See Shipping Information for details.

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LaMotte

LaMotte® Imhoff Cone and Stand
3319

Use in determining the settleability of sediment in water.

Constructed of impact-resistant plastic, this clear, conical tube is calibrated 0 to 1000 ml. Furnished with a sturdy stand, a long plastic stirring rod, and a plug at the tip of the cone which allows the removal of sediment.

LaMotte Imhoff Cone and Stand	Ⓜ	6 lbs.	**76917**	**$110.50**

LaMotte

LaMotte® Soil N-P-K Kit
6813

Specified in The GLOBE™ Program

Determine the high/medium/low concentrations of nitrogen, phosphorus, and potassium in soil. Includes enough TesTab tablet reagents to run 50 tests each for nitrogen, phosphorus and potassium; 1 extraction tube; 3 capped test tubes; 1 eyedropper; laminated comparison color chart; MSDS sheets; and instructions. GLOBE™ Program specified.

LaMotte Soil N-P-K Kit	8 oz.	**77960**	**$28.75**
		6+	**$27.75**

LaMotte® Soil pH TesTabs® Kit
8656

An alternative to liquid pH indicators, this kit utilizes TesTabs for measuring soil pH. Kit includes non-hazardous tablet reagents for 50 tests. Distilled or deionized water is recommended for use. Laminated color chart and instructions included. **Color Chart Values:** 4.0, 5.0, 6.0, 7.0, 8.0, 9.0, 10.0, 11.0.

LaMotte Soil pH TesTabs Kit	5 oz.	**77938**	**$14.70**
Demineralized Water, 60 ml	3 oz.	**77777**	**$5.50**
		12+	**$4.95**

Lovibond® Soil pH Test Kit
3068

Exceptional accuracy for any type of soil – sand, clay or peat.

Measure soil pH from 4.0 to 8.5 in 0.5 pH increments. Inert white powder draws special pH reagent to soil surface for positive comparison to color chart (supplied). White powder covers soil sample to eliminate soil color from interfering with pH reagent color. Contents sufficient for 200 tests. Complete in plastic box.

Lovibond Soil pH Test Kit	ⓘ	7 oz.	**77181**	**$39.50**
			3+	**$36.50**

Reagents

Reagent M Powder Refills, 30g for 200 tests		3 oz.	**77182**	**$13.60**
Reagent N Solution Refill, 1 oz. for 200 tests	ⓘ	2 oz.	**77185**	**$14.25**

Ⓜ Metric
ⓘ Extra Charge if Shipped by International Air.

New! Globe Professional Edition Soil Color Book
3890

This professional edition includes Hues 10R to 5Y and Gley colors from 10Y to 5B. Organized in a "waterfall" design, every color in each six-page set is visible at the same time, and the last page of each set functions as a convenient tab. Large color stripes measuring approximately 11/16″ wide provide for easy color comparison. The book features lacquer-coated color stripes printed on water-resistant stock that can be cleaned with water and liquid soap if needed.

Globe Professional Edition Soil Color Book			
7 oz.		**77384**	**$115.00**

GLOBE PROGRAM

The GLOBE Soil Color Book
3890

Meets The GLOBE Program Specifications

Second Edition. This water-resistant soil book features a unique "waterfall" page design with each of the 208 extra-large color samples stripe-coated across the page for easy comparison to soil samples, while also preserving the three-dimensional color order throughout the book. Features 8 hues (7.5R - 5Y), 23 Gley colors, a soil structure ruler, and diagrams and instructions for determining soil color, structure, texture, consistence, and free carbonates. Constructed of water-resistant, non-paper stock. Chart may be exposed to moisture and cleaned after use without damage. **Page sizes vary according to "waterfall" effect:** 2″, 2-1/4″, 2-1/2″, 2-3/4″. **Color stripe size:** approx. 11/16″ wide.

The Globe Soil Color Book			
6 oz.		**77369**	**$50.00**

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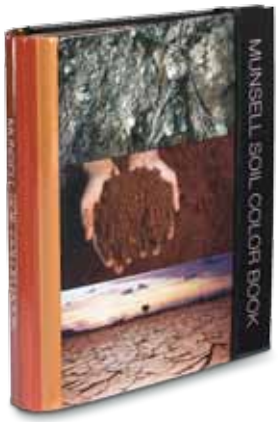


Munsell® Soil Color Book
7322

Use to judge color of rocks, archaeological specimens, animal pelage, and many natural products in this color range.

This revised edition features the same colors available in previous books plus additional color charts. Included are a 10Y and 5GY soil chart for glauconite soils, a 5R soil chart for Australia and Southeast Asia, and a 7.5R soil chart for tropical and semi-tropical soils. A Munsell high value, low chroma "white" page shows half steps from 8.5 to 9.5 in value with chromas of 1 and 2 for N, 7.5YR, 10YR, and 2.5Y. Use this page to describe carbonate, silica, gypsum, and soluble salt precipitates and evaporites common to arid and semi-arid environments as well as very light-colored parent materials such as diatomaceous earth and volcanic ash. The book's light gray pages decrease sun glare. The color chips are recessed into each water-resistant page to allow dirt and debris to be wiped off easily with less effect on the color chips. 2009 Revised Edition. **Chart Size:** 6″ x 8″.

Munsell Soil Color Book	15 oz.	**77321**	**$191.50**
		3+	**$181.25**
Replacement Munsell Soil Color Pages - Includes 7.5 YR and 10 YR pages	2 oz.	**77375**	**$72.50**

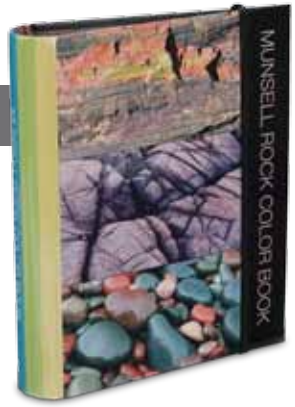
Munsell® Plant Tissue Color Chart
1635

Accurately determine and record color from nutrient deficiency in plant tissues.

Contains 320 matte color chips mounted on charts for 17 hues: 2.5R, 5R, 10R, 2.5YR, 5YR, 7.5YR, 2.5Y, 5Y, 2.5GY, 5GY, 7.5GY, 2.5G, 5G, 7.5G, 5BG, 2.5B, and 5RP. Instructions, binder, and masks included. 1977 Edition.

Munsell Plant Tissue Color Chart	1 lb.	**77361**	**$183.50**

X-Rite ColorChecker® Chart
page 316



Munsell® Geological Rock-Color Chart
3081

This new edition is a revision of the previously published Geological Society of America (GSA) Rock-Color Chart prepared by the Rock-Color Chart Committee. Included are 115 color chips with the Munsell numerical designation for identifying the range of rock colors. Works with either wet or dry specimens. Excellent for describing the color of medium to fine-grained rocks. Also helpful when working with coarse-grained rocks. A neutral mask is included for isolating individual colors. Loose leaf binder. 2009 Revised Washable Edition. **Page Dimensions:** 4-3/8″ x 7-1/4″. **Binder Dimensions:** 6″ x 7-3/4″ x 1″.

Munsell Geological Rock-Color Chart	9 oz.	**77333**	**$75.50**

Munsell® Book of Color - Glossy Collection
2289

With 1,605 colors, this is the most useful color guide there is! Ideal for evidence collection, the hue, value and chroma scales in the Munsell Book of Color make it easy to evaluate and compare the color of virtually any material. And, because the chips are removable, you can quickly compare and coordinate colors with ease. The guide is arranged on 40 constant hue charts (2.5, 5, 7.5 and 10 positions of each hue) plus 4 Munsell Gray charts.

Value Range: 2/ to 9/ in whole steps, with 8.5/ added to Y charts. **Chroma Range:** /2 to maximum achievable in equal steps of 2. Also includes 37-step Neutral Value Scale. **Chart Size:** 12″ x 9.75″. **Chip Size:** 3/4″ x 1-5/8″.

Munsell® Book of Color	16 lbs.	**77900**	**$1025.00**

Munsell® Bead Color Book
7984

Ideal for analyzing beads in the field, this book includes 176 Munsell Color standards to aid in reliable, consistent classification of bead colors. The set of color charts enables you to precisely name and compare bead colors from various archaeological sites or beaded objects. Bead color is a valuable tool in determining the region of the world that a bead is from and the types of materials used in producing the bead. **Page Dimensions:** 4.4″ x 7.25″. **Binder Dimensions:** 6″ x 8″ x 1.625″.

Munsell Bead Color Book	12 oz.	**77329**	**$170.00**

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Field Guide for Soil and Stratigraphic Analysis
2073

Makes analyzing and logging soil and stratigraphy in the field easy!

The front side of this field guide consists of a flow chart which lists key descriptive elements used to characterize and differentiate soil and stratigraphic units on soil boring logs. Commonly used terms from geologic, engineering, and soil science disciplines are included. The back of the field guide includes a user-friendly flow chart for easy assignment of a group name and USCS (Unified Soil Classification System) symbol in the field. Plastic coated, 8-1/2″ x 11″ guide.

Field Guide for Soil and Stratigraphic Analysis	2 oz.	**77351**	**$15.95**

USDA Soil Texturing Field Flow Chart
2074

Use this single-sided, plastic-coated guide for assisting with soil texturing procedures and assigning a Texture Class using the USDA texture triangle. The Flow Chart uses step-wise procedures (adopted from Foth and others, 1992) for estimating sand, silt, and clay content, and it uses the ribbon method to estimate the fine-grained fraction followed by placing the fraction within the texture triangle to determine Texture Class (ex: sandy loam). The guide provides instruction for determining Subclass (ex: fine sandy loam) and assigning Textural Class Modifiers for rock fragments greater than 2mm (ex: gravelly silt loam) and organic Compositional Textural Modifiers (ex: peaty sandy clay loam). **Dimensions:** 8.5″ x 11″.

USDA Soil Texturing Field Flow Chart	2 oz.	**77352**	**$15.95**

USDA Calibrated Soil Identification Kit
2074

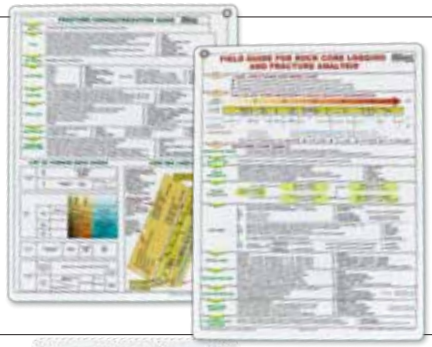
This USDA Soil Texture kit consists of eight air-dried soil samples which have been calibrated by passing through particle-size screens and confirmed for fine-grained percentages using a hydrometer. Each sample is approximately 250 ml (a little more than a cup) and is stored in a plastic zip-lock bag along with a sample ID with the USDA Textural Name and the precise grain size percentages. Texture ranges from loamy sand to silt loam to clay. Kit includes a quiz sheet and an answer sheet listing of the Texture Class name contained within the kit, as well as sand, silt, and clay fraction percentage. The soil specimens are collected from the Red River Valley near Fargo, North Dakota; near Detroit Lakes, Minnesota; in the Missouri River bottom near Onawa, Iowa, and near Ames, Iowa.

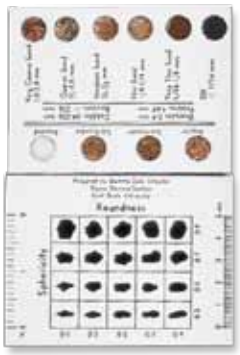
USDA Calibrated Soil Identification Kit	4 lbs.	**77360**	**$159.00**

New! Field Guide For Rock Core Logging And Fracture Analysis
4825

This field guide helps you think on your feet in the field. Use it to improve the accuracy of your rock core logs; reliably measure core recoveries: Total, Solid and Modified; measure Rock Quality Designation (RQD) with QA/QC steps; prepare consistent descriptions; analyze rock as the drilling program progresses; quickly characterize fractures and their distribution; build the geologic framework from boring to boring; identify general rock types; obtain guidance for placing and labeling cores in the box; and reduce log editing time. Double-sided, plastic-coated guide is clear, consistent, and concise. A list of general rock names is included for helping identify common rock types and schematic is provided for helping properly label the rock core box and place the rock core.

Field Guide For Rock Core Logging And Fracture Analysis	1 oz.	**77397**	**$17.95**





Sand Grain Sizing Folder
3077

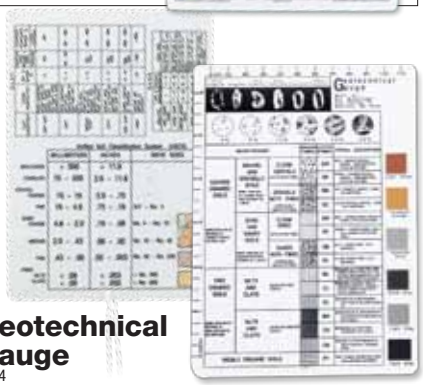
Pocket-sized folder enables the field geologist to quickly and accurately identify grain size and shape, grain sorting, roundness, and sphericity of a sample. Consists of sphericity/roundness measuring chart; printed examples of well-sorted and poorly-sorted grain samples in fine, medium, and coarse ranges; four actual grain samples illustrating angular, subangular, subrounded, and rounded shapes; **six grain size samples:** silt, very fine sand, fine sand, medium sand, coarse sand, and very coarse sand. Measurement limits for granules, pebbles, cobbles, and boulders indicated.

Sand Grain Sizing Folder	2 oz.	**77332**	**$7.95**
		10+	**$6.95**

Sand Gauge
3080

Flexible, waterproof plastic card has sand grains ranging from very coarse sand to fine silt permanently fused on plastic card. Additional features include size classification for large clasts, bed thickness classification, roundness chart with actual sand grains, field checklist for organizing notes, geologic time scale, and two carbonate classification charts. Gauge measures 2.5″ x 3.5″ and has nylon string for carrying convenience.

Sand Gauge	1 oz.	**77326**	**$16.75**
		10+	**$15.50**



Geotechnical Gauge
3204

Make accurate and consistent observations every time! Features include centimeter and inches scale, roundness chart, chart for estimating percentage composition, 6 common Munsell® soil colors, Unified Soil Classification System (USCS), soil compaction tests for clay and sand, and size classification chart with actual sand grains from coarse to silt permanently fused to plastic card. Flexible, waterproof plastic card has nylon string for carrying convenience and measures 5″ x 7″.

Geotechnical Gauge	C	1 oz.	**77325**	**$18.50**
			10+	**$17.50**

C Combination English and Metric

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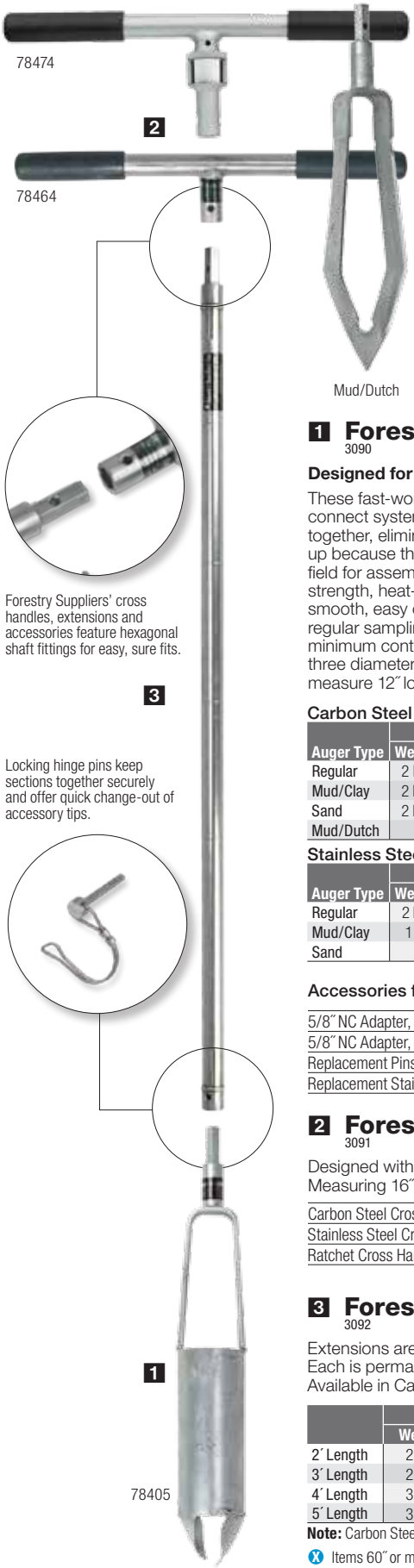
Forestry Suppliers, Inc. One-Piece Augers
6834

Quality one-piece augers with no thread-on or quick-connect extensions.

Simple one-piece design is ideal for soil sampling, tree planting, and placing gypsum blocks or tensiometers. Features include 13″ cross handle with vinyl grips and 42″ extension rod. Augers have maximum sampling depth of approximately 55″. Buckets are made of carbon steel. Available in either 3″ or 4″ diameter. Choose regular auger for sandy or clay loams and clay auger for heavy, wet clays.

One-Piece 3″ Regular Auger 6 lbs.	X	67180	$199.75
		2+	$186.25
One-Piece 3″ Clay Auger 5 lbs.		67184	$227.00
		2+	$210.00
One-Piece 4″ Regular Auger 6 lbs.	X	67181	$215.75
		2+	$200.25
One-Piece 4″ Clay Auger 6 lbs.		67185	$257.00
		2+	$238.00

X Items 60″ or more require an additional handling charge.



1 Forestry Suppliers Bucket Augers
3090

Designed for the toughest applications!

These fast-working bucket augers utilize a simple, reliable hex drive quick connect system which uses a one-piece pin for securely holding tools together, eliminating problems of stripped or worn threads. Will not freeze up because there are no spring-loaded pins. No tools are needed in the field for assembling or disassembling! Bits on all augers are made from high strength, heat-treated material, eliminating rough hardfacing and facilitating smooth, easy cutting action. Available in Carbon Steel which is great for regular sampling applications or Stainless Steel which is recommended when minimum contamination of sample is important. Bucket Augers are available in three diameters – 2″, 3″ or 4″. All 2″ diameter augers and the Mud/Dutch auger measure 12″ long while all other 3″ augers and all 4″ augers measure 18″ long.

Carbon Steel Auger Buckets

	2″ Diameter			3″ Diameter			4″ Diameter		
Auger Type	Weight	SN	$	Weight	SN	$	Weight	SN	$
Regular	2 lbs.	78401	$159.50	4 lbs.	78405	$148.50	4 lbs.	78421	$159.50
Mud/Clay	2 lbs.	78400	$183.50	3 lbs.	78404	$178.00	4 lbs.	78420	$202.00
Sand	2 lbs.	78402	$165.00	4 lbs.	78406	$159.50	5 lbs.	78422	$183.50
Mud/Dutch				2 lbs.	78408	$165.00			

Stainless Steel Auger Buckets

	2″ Diameter			3″ Diameter			4″ Diameter		
Auger Type	Weight	SN	$	Weight	SN	$	Weight	SN	$
Regular	2 lbs.	78411	$249.00	4 lbs.	78415	$242.00	4 lbs.	78431	$273.00
Mud/Clay	1 lb.	78410	$279.00	3 lbs.	78414	$279.00	3 lbs.	78430	$296.00
Sand				4 lbs.	78416	$255.00			

Accessories for Forestry Suppliers Bucket Augers

5/8″ NC Adapter, Threaded male to pin-type female	8 oz.	78498	$28.00
5/8″ NC Adapter, Threaded female to pin-type male	8 oz.	78499	$33.00
Replacement Pins	1 oz.	78470	$2.60
Replacement Stainless Steel Quick-Connect Pin	1 oz.	78471	$4.60

2 Forestry Suppliers Cross Handles
3091

Designed with comfort in mind, each handle features durable, vinyl grips. Measuring 16″ long, these cross handles provide plenty of driving force.

Carbon Steel Cross Handle	1 lb.	78454	$39.95
Stainless Steel Cross Handle	1 lb.	78464	$48.00
Ratchet Cross Handle	2 lbs.	78474	$138.75

3 Forestry Suppliers Extensions
3092

Extensions are constructed of high strength 1″ tubing for extra durability. Each is permanently marked in 6″ increments for easy depth measurements! Available in Carbon Steel or Stainless Steel in 2′, 3′, 4′, or 5′ lengths.

	Carbon Steel				Stainless Steel			
	Weight		SN	$	Weight		SN	$
2′ Length	2 lbs.		78450	$65.00	2 lbs.		78460	$93.75
3′ Length	2 lbs.		78451	$68.95	2 lbs.		78461	$97.75
4′ Length	3 lbs.		78452	$72.95	3 lbs.		78462	$101.75
5′ Length	3 lbs.	X	78453	$75.50	3 lbs.	X	78463	$109.95

Note: Carbon Steel extension fittings are carbon steel, remainder of extension is stainless steel.

X Items 60″ or more require an additional handling charge.

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1 New! Forestry Suppliers Auger Kits
3090

Using the proven hex drive connecting system and reliable locking pin design of the Forestry Suppliers Bucket Augers, these kits come complete with everything you need to handle your soil sampling needs! **Kits include:** 3″ diameter Regular, Mud/Clay, and Sand Auger Buckets; three 4′ extensions; a cross handle; eight locking pins; and a heavy-duty weatherproof case for convenient storage and transportation. Available in carbon steel or stainless steel.

Stainless Steel Auger Kit	44 lbs.	**67191**	**$1495.00**
Carbon Steel Auger Kit	44 lbs.	**67190**	**$1075.00**

1

AMS

2 AMS Deluxe Fiberglass Auger Kit
2402

Ideal for use in areas where buried electric cables may be present, this fiberglass auger kit is designed to help protect against possible electric shock. The two-piece 36″ tile probe features a rounded safety tip, detachable plastic handle, and zinc-plated extension rod. Perfect for locating irrigation, power, and water lines, the tile probe should be utilized as a primary device in determining if it is safe to use a hand auger at the sampling location. The two 4 ft. fiberglass extensions are sealed with a protective, non-conductive coating that is moisture-resistant and prevents fiberglass bloom and splintering. Insulated leather gloves are also included to eliminate the risk of fiberglass slivers. Threaded fittings on the extensions are wrench flatted and zinc-plated. Both a regular auger and a mud auger are included to provide versatility depending on the soil conditions. An 18″ rubber-coated cross handle allows you to work easily with less effort. The AMS Signature Series thread design on the extensions, augers, and cross handle ensures easy connection and disassembly. Vinyl carrying case included.

AMS Deluxe Fiberglass Auger Kit	17 lbs.	**77813**	**$764.95**

2

3 AMS Basic Soil Sampling Mini Kits
3106

For basic sampling of regular to heavy clay soils.

Everything you need for basic sampling of regular to heavy clay soils can be found in these convenient, portable mini kits. Each kit comes complete with soft, poly-canvas case that is durable, waterproof, and compact for easy transportation. Augers available in 3-1/4″ or 2-1/4″ sizes, as well as original thread-on style or quick-connect design for fast, easy set up. **Kits contain:** one regular auger, one mud auger, four 3′ extensions, one rubber-coated cross handle, and one poly-canvas case.

3-1/4″ Thread-On Mini Kit	14 lbs.	**77872**	**$626.00**
3-1/4″ Quick-Connect Mini Kit	20 lbs.	**77874**	**$801.00**
2-1/4″ Thread-On Mini Kit	14 lbs.	**77876**	**$654.00**
2-1/4″ Quick-Connect Mini Kit	18 lbs.	**77878**	**$811.00**
Soil Sampler Carrying Case	1 lb.	**77871**	**$118.25**

3

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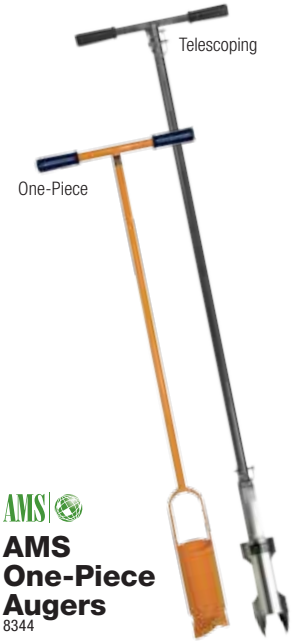

AMS One-Piece Augers
8344

The individual parts of this lightweight one-piece auger are welded together so that you'll never spend valuable time threading pieces together or looking for parts! The hard surface carbon steel auger bits are sharpened. Each auger is powder-coated (except for the Open-Face Clay Auger which is gold-zinc plated) for rust resistance. Features a 16″ rubber-gripped cross handle.

2-3/4″ x 51″ Regular Auger	4 lbs.	**77601**	**$159.50**
4″ x 53″ Regular Auger	6 lbs.	**77602**	**$159.50**
2-3/4″ x 51″ Mud Auger	4 lbs.	**77603**	**$164.95**
4″ x 53″ Mud Auger	6 lbs.	**77604**	**$164.95**
2-1/2″ x 52″ Open-Face Clay Auger	5 lbs.	**77637**	**$208.95**

AMS Telescoping Augers
3107

Everything you need in one convenient piece.

Simply adjust these chrome molybdenum augers anywhere from 5′4″ to 9′, and they're ready to go – no extensions, no tools. Available in regular and mud models. Comes complete with standard auger head and cross handle.

2-1/4″ Telescoping Regular Soil Auger	7 lbs.	**78337**	**$304.00**
2-1/4″ Telescoping Mud Soil Auger	7 lbs.	**78336**	**$331.70**
2-3/4″ Telescoping Regular Soil Auger	8 lbs.	**78339**	**$299.40**
2-3/4″ Telescoping Mud Soil Auger	8 lbs.	**78338**	**$329.50**
3-1/4″ Telescoping Regular Auger	8 lbs.	**78333**	**$287.95**
3-1/4″ Telescoping Mud Auger	8 lbs.	**78334**	**$321.25**
4″ Telescoping Regular Soil Auger	9 lbs.	**78340**	**$300.80**
Replacement Pins	1 oz.	**78470**	**$2.60**

77822

77825

Thread-On

Quick-Connect

Ratchet

AMS Eijkelkamp Edelman Thread-On Augers
7477

The vaulted design of these augers promotes soil digging and ensures a firm hold on the sample in the auger. Soil samples are guided into the auger body by two vaulted vertical cutting blades. The drilling bits are made from untreated steel to guard against contamination of collected soil samples. The augers feature 5/8″ thread-on connections. Use the Coarse Sand Auger in very non-cohesive, dry, sandy soils. The Combination Auger is ideal for use in a variety of soils because it provides a secure hold on sandy material and allows for easy removal of more cohesive mud and clay soils from the auger body. Use the Stony Soil Auger in soils with significant gravel content.

Combination Auger, 2-3/4″ dia.	1 lb.	**77822**	**$192.75**
Stony Soil Auger, 2-3/4″ dia.	2 lbs.	**77825**	**$207.25**

AMS Cross Handles
3097

Rubber coated handles for comfort, less fatigue.

Rubber-Coated Chrome Moly Cross Handle, Thread-On, 5/8″ NC	1 lb.	**77620**	**$39.75**
Quick-Connect, Rubber-Coated Chrome Moly	1 lb.	**67369**	**$65.25**

18″ Ratchet Cross Handles

Thread-on or quick-connect models. Both feature forward and reverse action. Constructed of aircraft-quality chrome molybdenum steel.

Thread-On Ratchet	3 lbs.	**77885**	**$124.75**
Quick-Connect Ratchet	4 lbs.	**77886**	**$145.50**

AMS Extensions
3098

Maximum strength and minimum torque for tough soil sampling conditions. May be stacked to 30 feet. 7/8″ O.D. **Chrome Moly Thread-On –** Aircraft-quality chrome molybdenum thread-on. **Chrome Moly Quick-Connect –** Aircraft-quality chrome molybdenum quick connect. **Stainless Steel Thread-On –** Quality stainless steel seamless tubing with thread-on connection.

	Chrome Moly Thread-On				Stainless Steel Thread-On				Chrome Moly Quick-Connect			
Length	Weight	SN		$	Weight	SN		$	Weight	SN		$
2′	1 lb.	**77580**		**$56.75**	1 lb.	**67370**		**$84.50**	2 lbs.	**77611**		**$88.95**
3′	2 lbs.	**77442**		**$59.25**	2 lbs.	**67371**		**$87.50**	3 lbs.	**77612**		**$91.50**
4′	2 lbs.	**77443**		**$61.50**	2 lbs.	**67372**		**$90.25**	3 lbs.	**77613**		**$94.95**
5′	2 lbs.	**77444**	X	**$64.50**	2 lbs.	**67373**	X	**$92.95**	4 lbs.	**77614**	X	**$98.75**

AMS Quick-Connect Accessories
6836

Replacement Button Ring	1 oz.	**77622**	**$4.75**
Adapter for attaching thread-on auger to quick-connect extensions	1 lb.	**77617**	**$51.95**
Repair Kit – screw, pin, and spring	1 oz.	**77615**	**$17.50**
5/8″ Threaded Male to Quick Connect Female Adapter	1 lb.	**77618**	**$51.50**

Thread-On Vs. Quick-Connect Systems

Thread-On

Similar to nuts and bolts, this system of augers, cross handles, and extensions use threaded joints to form solid connections between linked items. And, when compared to similar Quick-Connect items, Thread-On pieces are slightly less expensive. A special adapter (77617) is available which allows Thread-On augers to attach to Quick-Connect handles and extensions, reducing breakdown and set-up time. More importantly, Thread-On components and extensions are the only tools compatible with AMS hammer attachments.

Quick-Connect

If fast breakdown or changeover is important to you, consider AMS's Quick-Connect system. Unique button and hex coupling connectors allow Quick-Connect augers, cross handles, and extensions to connect and disconnect faster than common Thread-On systems. Keep in mind though, Quick-Connect pieces are not interchangeable with Thread-On handles or extensions and that Thread-On, not Quick-Connect, components and extensions are the only tools compatible with AMS hammer attachments.

Caution – Quick-Connect accessories are designed for use with hand augers only. They should never be used in conjunction with the AMS Hammer Attachment.

X Items 60″ or more require an additional handling charge.

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AMS

AMS Standard Soil Auger Buckets

3102

Superb quality and wide selection.
Carbon Steel/Stainless Steel Auger Buckets

Auger down to a depth of five feet in just two minutes – even in the hardest soils! Select from traditional thread-on style or quick-connect design that lets you quickly connect and disconnect components. Thread-on features 5/8″ NC threaded pin coupling. Quick-Connect eliminates the problems of stripped or worn threads and the need for wrenches. With the Quick-Connect Adapter, you can convert thread-on augers to this new design. Two types of cutting edges to choose from – for regular sampling applications use the Carbon Steel Bit; for applications where minimum contamination of your sample is important, use the augers with Stainless Steel Bit. On all augers, cylinders are stainless steel, 6-1/2″ long. Overall auger length is approximately 12″. Cutting edges are stelite hard surfaced, heat treated, and sharpened to a fine cutting edge. Use the Regular Auger for sandy or clay loams. For heavy, wet clays use the Mud Auger. In dry, loose sand use the Sand Auger. The Dutch Auger is for boggy, rooty soils. Use the Open-Face Clay Auger in combination soils, from mud/clay to hardpan.

Regular Auger
All Stainless Steel
Thread-On

Mud Auger
All Stainless Steel
Quick-Connect

Sand Auger
Carbon/Stainless Steel
Quick-Connect

Dutch Auger
Carbon Steel
Thread-On

Open Face Clay Auger
Carbon/Stainless Steel
Thread-On

			Regular Auger			Mud Auger			Sand Auger			Dutch Auger			Open Face Clay Auger		
		Diameter	Weight	SN	$	Weight	SN	$	Weight	SN	$	Weight	SN	$	Weight	SN	$
5/8″ NC Thread-On Auger Buckets	Carbon Steel/ Stainless Steel	2″										1 lb.	77485	$190.50			
		2-1/4″	2 lbs.	78321	$162.50	2 lbs.	67367	$183.50	2 lbs.	77696	$177.50						
		2-1/2″													3 lbs.	77638	$187.50
		2-3/4″	2 lbs.	77426	$157.75	2 lbs.	77429	$179.95	2 lbs.	77432	$176.50						
		3″										1 lb.	77435	$191.50			
		3-1/4″	2 lbs.	77427	$142.50	2 lbs.	77430	$171.95	3 lbs.	77433	$172.95						
		4″	4 lbs.	77428	$157.75	4 lbs.	77431	$205.25	4 lbs.	77434	$178.75						
	All Stainless Steel	2-1/4″	2 lbs.	77549	$234.25												
		2-3/4″	2 lbs.	77547	$232.95	2 lbs.	77548	$247.25									
		3-1/4″	2 lbs.	77545	$231.95	2 lbs.	77546	$241.25									
		4″	3 lbs.	67365	$251.75												
Quick-Connect* Auger Buckets	Carbon Steel/ Stainless Steel	2-1/4″	2 lbs.	77697	$188.75	2 lbs.	67368	$207.50	2 lbs.	77698	$208.75						
		2-1/2″													3 lbs.	77642	$203.50
		2-3/4″	3 lbs.	77582	$176.50	2 lbs.	77585	$200.75	3 lbs.	77588	$206.50						
		3″										2 lbs.	77594	$210.95			
		3-1/4″	3 lbs.	77583	$163.25	3 lbs.	77586	$192.50	3 lbs.	77589	$204.25						
		4″	4 lbs.	77584	$181.75	4 lbs.	77587	$224.95	4 lbs.	77590	$209.75						
	All Stainless Steel	2-1/4″	2 lbs.	77595	$255.50	2 lbs.	77598	$275.25									
		2-3/4″	2 lbs.	77596	$252.95	2 lbs.	77599	$272.95									
		3-1/4″	3 lbs.	77597	$251.75	3 lbs.	77600	$263.50									
		4″	4 lbs.	67363	$277.50												
Repl. Bits Sold in pairs	Carbon Steel	2-1/4″	2 oz.	78319	$48.50	2 oz.	78320	$52.25									
		2-3/4″	3 oz.	77460	$45.75	3 oz.	77463	$47.25									
		3-1/4″	4 oz.	77461	$45.75	4 oz.	77464	$48.50									

Note: Larger diameters available. Call for details. ***Note:** Quick-Connect assembly is cast steel. Remainder is stainless steel.

AMS

AMS Gouge Augers

8332

Designed for sampling wet clay and peat!

Ideal for collection of undisturbed samples from very soft and preferably very wet soils with minimal disturbance of soft cohesive layers such as wet clay or peat. The sharp cutting edges allow you to simply push the long, tapered stainless steel, semi-cylindrical chamber into the soil, twist, and recover to display a full and virtually undisturbed profile of peaty soil. Designed for use with AMS Standard Thread-On Extensions and Cross Handles.

1-1/4″ x 40″ 4 lbs.	77465	$314.95
2-1/2″ x 40″ 10 lbs.	77466	$431.50

AMS

AMS Triple Lead Screw Augers

3103

Extra heavy-duty screw-type auger. Triple-twist flighting allows for aggressive cutting into the soil. High carbon steel. Thread-on extensions and cross handles sold separately.

1-1/4″ x 18″ Triple Lead Flighted Auger 2 lbs.	77577	$160.50
1-1/2″ x 18″ Triple Lead Flighted Auger 2 lbs.	77578	$169.25

[search engine powered by magazooms.com]

AMS Professional Series Auger Buckets

7778

Designed for soil sampling professionals who demand the strongest, most durable connections on their soil sampling components! These augers feature a robust, heavy duty 3/4″ threaded connection and boast 11-gauge cutting teeth with strong welds and extra tungsten carbide hard surfacing. Extra gussets welded at the top and bottom of the bail help prevent the bail from bending or twisting when working in hard or rocky soils or when the augered hole is extra deep. The augers feature stainless steel cylinders and heat-treated, high-carbon steel bits with tungsten carbide hard-surfaced edges. Order augers, cross handles, and extensions separately.

Regular Auger, 2-1/4″ dia.	2 lbs.	**77042**	**$228.25**
Regular Auger, 2-3/4″ dia.	2 lbs.	**77047**	**$221.25**
Regular Auger, 3-1/4″ dia.	3 lbs.	**77052**	**$206.95**
Regular Auger, 4″ dia.	4 lbs.	**77055**	**$223.95**
Mud Auger, 2-1/4″ dia.	2 lbs.	**77057**	**$241.50**
Mud Auger, 2-3/4″ dia.	2 lbs.	**77060**	**$236.75**
Mud Auger, 3-1/4″ dia.	3 lbs.	**77071**	**$232.95**
Mud Auger, 4″ dia.	4 lbs.	**77097**	**$265.50**

AMS Professional Series Cross Handles

7778

Two models available. The textured rubber-coated cross handle is constructed of chromoly. The ratcheting cross handle is constructed of carbon steel and features an open-gear mechanism that allows for easy cleaning of the gear and cog. **Length:** 18″L.

Rubber-Coated Cross Handle	1 lb.	**77137**	**$43.95**
Ratcheting Cross Handle	3 lbs.	**77138**	**$130.75**

AMS Professional Series Extensions

7778

Constructed of 1″ diameter chrome molybdenum tubing. Powder-coated safety orange for superior rust resistance.

3′ Extension	2 lbs.	**77131**	**$89.50**
4′ Extension	3 lbs.	**77132**	**$91.95**

AMS Professional Series Soil Sampling Kit

7778

This rugged kit includes a regular auger, a mud auger, three 4′ extensions, 18″ rubber-coated cross handle, a 10 lb. slide hammer, a 2″ x 6″ split-core sampler, a plastic liner, two end caps, a rock breaker kit, a cleaning brush, a universal slip wrench, and two adjustable crescent wrenches. Augers are 3-1/4″ diameter. The kit components fit in the included deluxe carrying case that features handles and wheels for ultimate portability.

Professional Series Soil Sampling Kit	58 lbs.	**77037**	**$1942.75**

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AMS Signature Series Soil Sampling Equipment

7080

AMS Signature Series augers make soil sampling faster and easier than ever!

The Signature Series thread design allows connection and disassembly with only 1-1/2 turns, significantly faster than with thinner thread designs. Because the threads are thicker and more durable than traditional threads, they can also withstand tough use in the field. The rounded bail design is easy to use. The auger bits have been modified to speed the augering process even more. Except for the Dutch Auger and Open-Face Clay Auger, each auger has high carbon steel bits with tungsten carbide hard surface edges, a stainless steel cylinder, and a carbon steel bail. The Dutch Auger and Open-Face Clay Auger are made of carbon steel. Order augers, cross handles, and extensions separately.

Regular Mud Sand Mud/ Dutch Open Face Clay

Adapters

5/8″ Adapter NC Female to Sig Male	7 oz.	**77491**	**$51.25**
QC Female to Sig Male Adapter	1 lb.	**77497**	**$51.75**
QC Male to Sig Female Adapter	1 lb.	**77487**	**$49.70**
5/8″ Adapter NC Male to Sig Female	7 oz.	**77489**	**$52.25**

Signature Series Auger Buckets

Dia.	Regular Auger			Mud Auger			Sand Auger			Mud/Dutch Auger			Open Face Clay Auger		
	Weight	SN	$	Weight	SN	$	Weight	SN	$	Weight	SN	$	Weight	SN	$
2″										1 lb.	**76990**	**$204.95**			
2-1/4″	2 lbs.	**76980**	**$168.95**	2 lbs.	**76981**	**$190.25**									
2-1/2″													3 lbs.	**76977**	**$198.25**
2-3/4″	2 lbs.	**76986**	**$163.25**	2 lbs.	**76987**	**$187.75**									
3″										1 lb.	**76970**	**$204.95**			
3-1/4″	3 lbs.	**76967**	**$147.95**	2 lbs.	**76968**	**$178.25**	3 lbs.	**76969**	**$180.50**						
4″	3 lbs.	**76975**	**$163.95**	4 lbs.	**76973**	**$210.95**	4 lbs.	**76974**	**$185.50**						

Signature Series Cross Handles

These 18″ chrome molybdenum steel cross handles are designed to work easier with less effort, even in the toughest soil conditions.

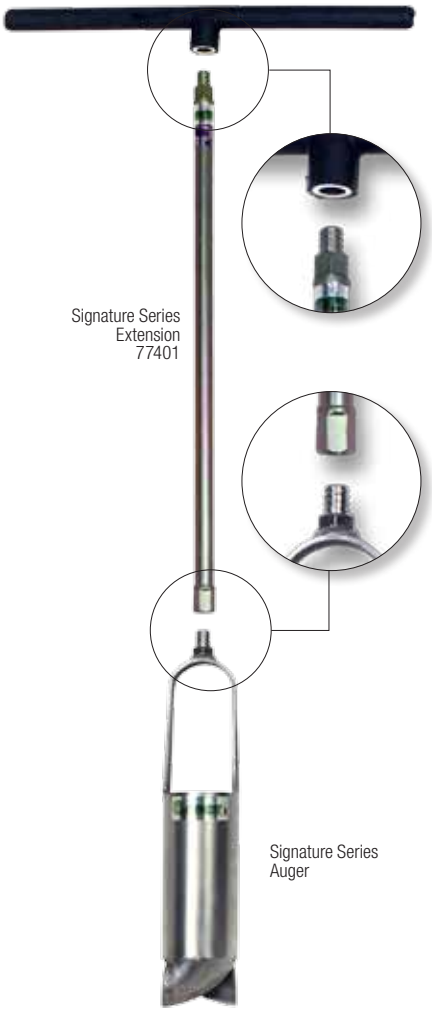
Rubber Coated Cross Handle	1 lb.	**77439**	**$43.95**
Ratchet Cross Handle	3 lbs.	**77440**	**$130.75**
Regular Cross Handle	15 oz.	**77441**	**$34.25**

Signature Series Extensions

Extensions are constructed of chrome molybdenum steel and are plated with a yellow zinc coating to make them rust-resistant.

2′ Extension	1 lb.	**77401**	**$71.75**
3′ Extension	2 lbs.	**77402**	**$74.50**
4′ Extension	2 lbs.	**77404**	**$78.75**
5′ Extension (X)	3 lbs.	**77413**	**$81.75**

77440
Cross Handles
77439



Signature Series Extension 77401

Signature Series Auger

Signature Series Basic Soil Sampling Kit

Everything you need to collect samples in a variety of soils! This kit includes regular auger, mud auger, sand auger, core sampler, slide hammer, three 4′ extensions, rubber coated cross handle, two crescent wrenches, slip wrench, and nylon brush. Augers are 3-1/4″ diameter. Kit contents are packaged in poly-reinforced carrying case with convenient wheels and handles.

Basic Soil Sampling Kit	57 lbs.	**77814**	**$1497.00**

Signature Series Mini Soil Sampling Kit

Specially designed for auger sampling. Kit contains 3-1/4″ diameter regular auger, 3-1/4″ diameter mud auger, four 3′ extensions, and rubber coated cross handle. Handy poly-canvas case included.

Mini Soil Sampling Kit	14 lbs.	**77816**	**$696.00**

Mini Soil Sampling Kit

Note: Not compatible with standard AMS Sampling Equipment.

(X) Items 60″ or more require an additional handling charge.

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AMS Core Sampling Mini Kit
6838

Specially designed for auger sampling.

Kit is lightweight for easy carrying and convenient storage. **Includes:** one regular 3-1/4″ auger, one 2″ x 6″ core sampler with hammer, butyrate liner, four 3′ extensions, one rubber-coated cross handle, two crescent wrenches, and a poly-canvas case. Sampling components feature threaded couplings.

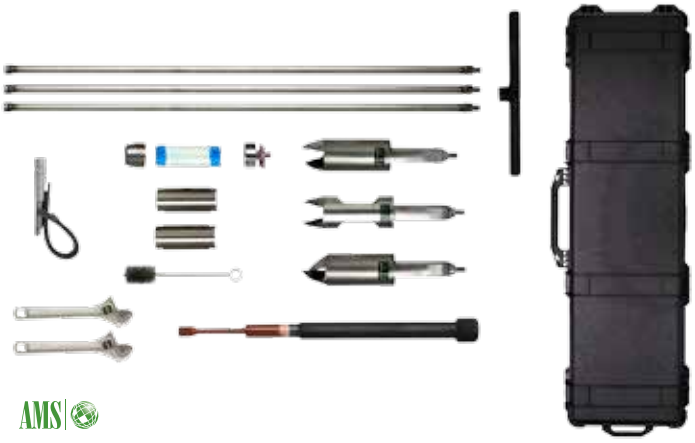
AMS Core Sampling Mini Kit	30 lbs.	**77884**	**$955.00**

AMS Stainless Steel Core Sampling Mini Kit
6837

All-stainless steel!

Sampling components are all-stainless steel, making them ideal for obtaining samples with a low level of contamination. **Kit includes:** one stainless steel 3-1/4″ regular auger, one 2″ x 6″ split core sampler with a core tip, butyrate liner, four stainless steel 3′ extensions, one stainless steel cross handle, one slide hammer, two crescent wrenches, and poly-canvas case. Sampling components have threaded couplings.

AMS Stainless Steel Core Sampling Mini Kit	30 lbs.	**77883**	**$1371.00**



AMS Environmental Soil Sampling Kit
3116

All Stainless Steel

Comprised of all stainless steel sampling equipment, this kit is ideal for sampling low-toxic or low-level contaminants and subsequent decontamination. **Kit includes:** three 3-1/4″ dia. thread-on augers (regular, mud and sand), one split-core sampler with slip wrench, one cross handle, and three 4′ extensions – all stainless steel! **Additional items include:** butyrate liner, slide hammer, stainless steel cleaning brush, two crescent wrenches, and tough, plastic Pelican® carrying case with foam lining.

AMS Environmental Soil Sampling Kit	62 lbs.	**67352**	**$2074.95**

AMS Basic Soil Sampling Kit
3117

This quality kit has what you need when it comes to basic sampling of mud, soil, or sand. **Kit includes:** three 3-1/4″ dia. thread-on augers (mud, soil and sand), 2″ dia. x 6″L thread-on core sampler with hammer attachment, butyrate liner, three 4′L thread-on extensions, rubber-coated thread-on cross handle, 2″ cleaning brush, and two crescent wrenches. Augers are carbon steel/stainless steel and the core sampler and extentions are chrome molybdemum. All components fit securely in a foam-lined, plastic Pelican® case.

AMS Basic Soil Sampling Kit	57 lbs.	**67351**	**$1393.75**

Replacement Parts & Accessories

	Environmental				Basic			
	Description	Weight	SN	$	Description	Weight	SN	$
Regular Auger, 3-1/4″ dia., Thread-On	Stainless Steel	2 lbs.	**77545**	**$231.95**		2 lbs.	**77427**	**$142.50**
Mud Auger, 3-1/4″ dia., Thread-On	Stainless Steel	2 lbs.	**77546**	**$241.25**		2 lbs.	**77430**	**$171.95**
Sand Auger, 3-1/4″ dia., Thread-On						3 lbs.	**77433**	**$172.95**
Cross Handle, Thread-On	Rubber-Coated	1 lb.	**77620**	**$39.75**	Rubber-Coated	1 lb.	**77620**	**$39.75**
4′ Extension, Thread-On	Stainless Steel	2 lbs.	**67372**	**$90.25**	Chrome Moly	2 lbs.	**77443**	**$61.50**
Thread-on Hammer Attachment, 5/8″ NC Thread		10 lbs.	**77454**	**$173.75**		10 lbs.	**77454**	**$173.75**
Hammer Head Cross Handle, 5/8″ NC Thread	see photo on page 304	2 lbs.	**77810**	**$93.95**	see photo on page 304	2 lbs.	**77810**	**$93.95**
2″ x 6″ Split Core Sampler, Thread-On	with slip wrench, Stainless Steel	5 lbs.	**77800**	**$550.25**				
Chrome Moly Sampler; 2″ x 6″L, Thread-On					with Hammer Attachment	13 lbs.	**77557**	**$366.95**
					without Hammer Attachment	3 lbs.	**77575**	**$251.25**

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AMS

AMS Hollow Stem Auger Kit

3109

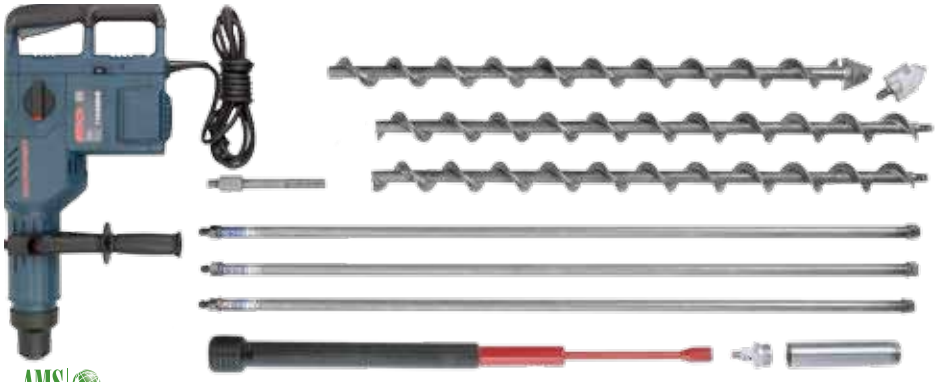
A fully portable kit for accessing and sampling soil, soil gas, or shallow groundwater. The hollow stem technique temporarily seals the walls of the drilled access hole, preventing bore hole wall from collapsing while sampling and ensuring discrete interval samples. Drills a three inches in diameter by six to nine feet deep hole unless soil has heavy clays or rocks, which can cause system damage if excessive force is used. Accepts any sampling or measurement device with a diameter of 7/8″ or less. Kit includes: Bosch® electric roto hammer drill, 3″ dia. x 3′ lead auger with inner rod and plug, 3″ dia. x 3′ extension with inner rod, adapter cap (auger to 5/8″ thread), SDS drill-to-auger adapter, 7/8″ dia. x 2′ slotted soil probe, AMS hammer attachment, and two crescent wrenches. Roto hammer drill stores in its own, custom fitted steel case. All other components fit in a rugged, foam-lined, plastic Pelican® case.

AMS Hollow Stem Auger Kit Without Hammer Drill		64 lbs.	**76397**	**$1246.00**
AMS Hollow Stem Kit	O	100 lbs.	**76371**	**$2532.00**

Replacement Parts and Accessories

Hammer Head Cross Handle, 5/8″ NC Thread		2 lbs.	**77810**	**$93.95**
Optional Soil Recovery Probe for Hollow Stem Kit, Unslotted		3 lbs.	**76369**	**$180.95**
Splined Drill-to-Auger Adapter		12 oz.	**76376**	**$113.95**
3/4″ x 24″ Butyrate Plastic Liner		2 oz.	**77522**	**$3.25**
Thread-on Hammer Attachment, 5/8″ NC Thread		10 lbs.	**77454**	**$173.75**
SDS Max Drill-to-Auger Adapter		11 oz.	**77857**	**$112.95**
Replacement Auger Tip		13 oz.	**76379**	**$84.50**

Note: 77522 does not come with liner caps. The liner caps are sold separately.



AMS

AMS Flighted Auger Kit

3108

Designed to speed up sampling of soil, soil gas, and shallow water, this flighted auger kit includes everything you need to rapidly drill small diameter access holes nearly 9′ deep (depending on soil conditions). Drill holes vertically or at angles. The first 18″ of the base section auger flights are tungsten carbide coated for extended wear. **Kit includes:** Bosch® electric roto hammer drill, 2″ dia. x 3′ flighted lead auger with hard surfaced tip, two 2″ dia. x 3′ flighted extensions, three 4′ extensions, carbide tip, 1-1/2″ dia. x 6″ core sampler with aluminum liner and slide hammer, SDS drill-to-auger adapter, and cleaning brush. Roto hammer drill stores in its own custom fitted steel case. All other components fit in a rugged, foam-lined, plastic Pelican® case. Also available in Quick-Connect. Call for details.

AMS Flighted Auger Kit	O	105 lbs.	**77853**	**$3041.00**
AMS Flighted Auger Kit Without Hammer Drill		66 lbs.	**77753**	**$1595.00**

O Oversize. Ships at Oversize rate. See Shipping Information for details.

AMS Flighted Auger Replacement Parts and Accessories

Hammer Head Cross Handle, 5/8″ NC Thread	2 lbs.	**77810**	**$93.95**
Splined Drill-to-Auger Adapter	12 oz.	**76376**	**$113.95**
Lead Auger w/Hard Surfaced Tip, 2″ x 3′	6 lbs.	**77854**	**$269.95**
Flighted Auger Extension, 2″ x 3′	6 lbs.	**77855**	**$227.25**
4′ Chrome Moly Thread-On Extension	2 lbs.	**77443**	**$61.50**
Carbide Tip	11 oz.	**77856**	**$124.50**
Hard Surfaced Tip	6 oz.	**77865**	**$73.95**
Thread-on Hammer Attachment, 5/8″ NC Thread	10 lbs.	**77454**	**$173.75**
SDS Max Drill-to-Auger Adapter	11 oz.	**77857**	**$112.95**

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Zippit® Bags
3134

Store soil and other samples securely in these sturdy, 2-mil or 4-mil plastic bags with easy-to-close zip top. Available in clear or with white write-on strip for identification.

2 Mil, Clear, Case of 1000

2 Mil, 2″ x 2″ 1 lb.	**79108**	**$12.50**
2 Mil, 2″ x 3″ 1 lb.	**79109**	**$14.75**
2 Mil, 3″ x 4″ 2 lbs.	**79111**	**$20.25**
2 Mil, 3″ x 5″ 3 lbs.	**79113**	**$25.25**
2 Mil, 4″ x 4″ 3 lbs.	**79188**	**$26.25**
2 Mil, 4″ x 6″ 4 lbs.	**79189**	**$35.25**
2 Mil, 4″ x 8″ 3 lbs.	**79194**	**$44.25**
2 Mil, 5″ x 5″ 5 lbs.	**79195**	**$38.75**
2 Mil, 5″ x 8″ 6 lbs.	**79257**	**$54.75**
2 Mil, 6″ x 9″ 10 lbs.	**79259**	**$73.50**

2 Mil, With White Write-On Strip, Case of 1000

2 Mil, 2″ x 3″ 1 lb.	**79110**	**$16.75**
2 Mil, 3″ x 4″ 2 lbs.	**79112**	**$23.75**
2 Mil, 3″ x 5″ 3 lbs.	**79117**	**$26.75**
2 Mil, 4″ x 6″ 4 lbs.	**79192**	**$37.75**
2 Mil, 5″ x 8″ 7 lbs.	**79258**	**$63.25**
2 Mil, 6″ x 9″ 9 lbs.	**79278**	**$82.25**

4-Mil

4 Mil. 8″ x 8″ Clear, Box of 1000 21 lbs.	**79115**	**$86.75**
4 Mil, 10″ x 10″ Clear, Box of 1000 30 lbs.	**79288**	**$132.50**
4 Mil, 12″ x 15″ Clear, Box of 500 25 lbs.	**79116**	**$139.95**
4 Mil, 14″ x 24″ Clear, Box of 250 24 lbs.	**79290**	**$119.95**
4 Mil, 5″ x 8″ With White Write-On Strip, Case of 1000 12 lbs.	**79291**	**$68.95**
4 Mil, 6″ x 9″ With White Write-On Strip, Case of 1000 16 lbs.	**79292**	**$91.75**
4 Mil, 9″ x 12″ With White Write-On Strip, Case of 1000 32 lbs.	**79298**	**$181.95**

AMS Thread-On Slide Hammer
6835

Rubber-coated, sliding steel handle. Pounds down for penetration, up for extraction of samples. **Length:** 27″, closed; 45″, extended.

Thread-on Hammer Attachment, 5/8″ NC Thread	10 lbs.	**77454**	**$173.75**

AMS Compact Slide Hammer
3096

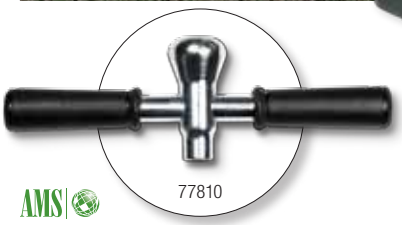
A more compact version of the regular rubber-coated slide hammer. Ideal for use in tight areas or for shallow penetration. **Length:** 19″, closed; 27″, extended.

AMS Compact Slide Hammer, Thread-On	8 lbs.	**67349**	**$169.50**

AMS Rock Breaker Attachment Kit
3099

Tough chisel design. Breaks rocks and hard pan when used with Hammer Attachment. Kit includes two 10″ long rock breakers.

AMS Rock Breaker Attachment Kit	2 lbs.	**77422**	**$110.25**



AMS Soil Core Sampler Kits
3118

Chrome Moly or Stainless Steel

Collect undisturbed soil samples in removable retaining liners with these 2″ I.D. chrome molybdenum or stainless steel samplers. The AMS Hammer Attachment pounds down for penetration, up for extraction. Can be extended using AMS Thread-on Extensions. Kits include one butyrate retaining liner and two polyethylene liner caps.

		Chrome Moly Sampler with Hammer Attachment			Chrome Moly Sampler without Hammer Attachment			Stainless Steel Sampler with Hammer Attachment			Stainless Steel Sampler without Hammer Attachment		
	Size	Weight	SN	$	Weight	SN	$	Weight	SN	$	Weight	SN	$
Soil Core Sampler Kits	2″ x 2″L	12 lbs.	**77455**	**$323.50**	2 lbs.	**77573**	**$213.75**	12 lbs.	**78322**	**$390.25**	2 lbs.	**77849**	**$280.50**
	2″ x 4″L	13 lbs.	**77556**	**$352.25**	3 lbs.	**77574**	**$232.95**	13 lbs.	**78323**	**$419.75**	3 lbs.	**77850**	**$295.50**
	2″ x 6″L	13 lbs.	**77557**	**$366.95**	3 lbs.	**77575**	**$251.25**	13 lbs.	**78324**	**$435.25**	4 lbs.	**77851**	**$310.50**
		Aluminum			Butyrate Plastic			Stainless Steel					
	Size	Weight	SN	$	Weight	SN	$	Weight	SN	$			
Soil Core Sampler Kit Liners	2″ x 2″L	1 oz.	**77457***	**$5.25**	1 oz.	**77846***	**$2.25**	4 oz.	**77570***	**$8.95**			
	2″ x 4″L	2 oz.	**77558***	**$6.25**	2 oz.	**77847***	**$2.95**	7 oz.	**77571***	**$11.25**			
	2″ x 6″L	3 oz.	**77559***	**$7.50**	2 oz.	**77848***	**$3.95**	11 oz.	**77572***	**$13.75**			

*Plastic Liner Caps (77483) are sold separately.

AMS Soil Core Sampler Kit Accessories

Replacement Chrome Moly Solid Cap	1 lb.	**77576**	**$134.95**
Replacement Stainless Steel Solid Cap	1 lb.	**77852**	**$160.50**
Thread-on Hammer Attachment, 5/8″ NC Thread	10 lbs.	**77454**	**$173.75**
Hammer Head Cross Handle, 5/8″ NC Thread	2 lbs.	**77810**	**$93.95**
2″ Polyethylene Liner Caps, Case of 100	1 lb.	**77483**	**$50.00**
Teflon Tape, 4″ x 100′ Perforated Roll	1 lb.	**76258**	**$81.50**

Thread-On Extension

	2′		3′		4′		5′	
Chrome Moly	**77580**		**77442**		**77443**		**77444**	
Stainless Steel		**67370**		**67371**		**67372**		**67373**
Restrictions							X	X
Weight	1 lb.	1 lb.	2 lbs.	2 lbs.	2 lbs.	2 lbs.	2 lbs.	2 lbs.
Each	**$56.75**	**$84.50**	**$59.25**	**$87.50**	**$61.50**	**$90.25**	**$64.50**	**$92.95**

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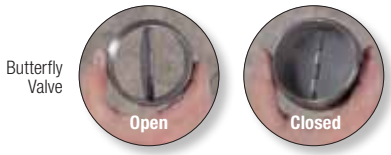
1 AMS Sludge Sampler Kit
3112

Stainless steel sampler is able to take 3″ diameter samples and features interchangeable auger and core tips for varying sludge consistencies. Unique butterfly valve helps prevent sample escape, and removable butyrate plastic liner permits discreet sampling, easier sample removal, and simpler decontamination. **Kit includes:** plastic liner, removable solid cap, sampler body, auger tip (which requires cross handle), core tip (which may require hammer attachment), and wrench. Thread-on extensions, cross handles, and hammer attachment are sold separately.

3-1/4″ x 10″ Thread-on Sludge Sampler Kit	9 lbs.	**77567**	**$658.75**



2 AMS Extendible Split Core Sampler & Split Auger Sampler Kits and Accessories
3115

Hand-crafted from stainless steel and manufactured to strict tolerances. Split barrels open completely enabling you to easily access samples and may be extended to retrieve continuous core samples using optional 12″ barrel extensions and couplers. Optional liners help avoid contamination. **Each kit includes:** two-piece split barrel sampler body, solid cap, butyrate liner, liner caps, slip wrench, and either a thread-on hardened core tip or auger tip. If sampling sludge, order the optional tip with butterfly valve. Thread-on extensions, hammer attachments, and cross handles sold separately. **Inside diameter:** 2″. **Outside diameter:** 2-3/4″.

2″ x 6″ SS Split Core Sampler w/slip wrench, Thread-On	5 lbs.	**77800**	**$550.25**
2″ x 12″ Split Sampler Kit w/Core Tip	8 lbs.	**77801**	**$609.95**
2″ x 12″ Split Sampler Kit w/Auger Tip	9 lbs.	**77817**	**$642.00**
2″ x 12″ Split Barrel Extension	5 lbs.	**77809**	**$303.95**
2″ Extension Coupler	5 oz.	**77866**	**$96.50**
Core Tip with Butterfly Valve for Sludge	1 lb.	**77867**	**$258.50**
Universal Wrench	1 lb.	**77882**	**$36.75**
Replacement Core Tip	10 oz.	**77804**	**$194.75**
Replacement Solid Cap	13 oz.	**77806**	**$139.50**

3 AMS Extendible Core Sampler Kit and Accessories
3114

Ideal for retrieving continuous core samples, this all stainless steel sampler is easily extended using the optional 12″ thread-on barrel extensions. Durable, heat-treated core and auger tips are included and may be interchanged as needed. If you're planning to sample sludge or other flowable material, use the optional core tip with butterfly valve. **Kit includes:** 12″ stainless steel sampler body, core tip, auger tip, solid cap, butyrate liner, two polyethylene liner caps, and slip wrench. Optional liners enable you to recover samples with near zero contamination as required in hazardous waste sampling. Appropriate extensions, cross handles, and hammer attachments are sold separately. **Inside diameter:** 2″. **Outside diameter:** 2-3/4″.

2″ x 12″ Extendible Core Sampler Kit	10 lbs.	**77655**	**$714.95**
Solid Cap	1 lb.	**77656**	**$128.95**
12″ Extension	4 lbs.	**77657**	**$200.95**
12″ Multi-Stage Base	4 lbs.	**77658**	**$200.95**
Core Tip	9 oz.	**77659**	**$167.50**
Core Tip with Butterfly Valve for Sludge	13 oz.	**77661**	**$212.75**
Universal Wrench	1 lb.	**77882**	**$36.75**

2″ x 12″ Liners, Caps and Teflon Tape for AMS Extendible Samplers
3113

Avoid contaminating your sample by using these 2″ x 12″ liners with either of our AMS Core Sampling Kits. **Note:** 77665 and 77666 do not come with liner caps. The liner caps are sold separately.

2″ x 12″ Butyrate Plastic Liner 4 oz.	**77665**	**$7.75**
2″ x 12″ Stainless Steel Liner 1 lb.	**77666**	**$19.50**
2″ Polyethylene Liner Caps, Case of 100 1 lb.	**77483**	**$50.00**
Teflon Tape, 4″ x 100′ Perforated Roll 1 lb.	**76258**	**$81.50**

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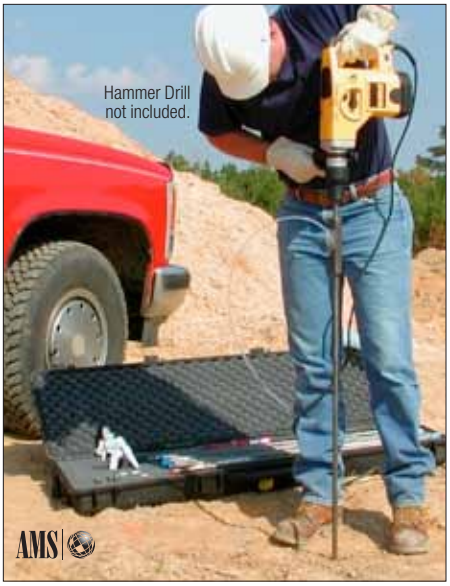
AMS Manual Soil Gas Vapor Probe

3214

An economical method for sampling soil gas vapor.

This hollow, all-stainless steel probe features a non-removable, hardened stainless alloy tip for good ground penetration, vent holes for gas entry, and a removable liner rod which, when inserted inside the probe for ground penetration, helps prevent soil intrusion into the probe. Threaded for attaching to gas vapor probe extensions and AMS "thread-on" hammer attachment. Complete with cross handle, tile probe base, one 3´ tile probe extension, barbed adapter, and adapter for hammer attachment. Hammer attachment and additional extensions are sold separately.

1/2˝ x 3´ Manual Soil Gas Vapor Probe 4 lbs.	**77568**	**$352.25**
1/2˝ x 3´ Extension 2 lbs.	**77569**	**$117.25**
Replacement 1/2˝ Couplings for Manual Soil Gas Vapor Probe 2 oz.	**77631**	**$14.75**
Thread-on Hammer Attachment, 5/8˝ NC Thread 10 lbs.	**77454**	**$173.75**
Hammer Head Cross Handle, 5/8˝ NC Thread 2 lbs.	**77810**	**$93.95**



AMS Soil Gas Vapor Probe (SGVP)

3212

Sample soil vapors and shallow groundwater easily and accurately!

Widely used around pipelines and underground storage tanks (UST's). The SGVP drive tubes are removed, leaving the vapor probe tip imbedded at the desired location and sampling depth. A Teflon® vapor tube running from the tip to the surface makes continuous sampling a quick and easy process. The outside diameter of the vapor probe tip is larger than the diameter of the drive tubes, enabling the probe to be inserted easily. The SGVP tip is machined so that the vapor inlet holes are recessed in the tip. Just above the vapor inlet holes is a machined flange. A dead air space is created with the vapor inlet holes recessed below the flange and just above the base. A Teflon umbrella can be attached to the vapor probe tip just above the flange. The umbrella is then folded and is inserted to the desired depth and the drive tubes are removed causing the Teflon umbrella to unfold. This prevents any dirt from falling in and around the vapor tip and prevents plugging of the vapor inlet holes. The Teflon tube is attached to the SGVP tip by pushing the tube over a barbed tang. The Teflon vapor tube is threaded through the drive tubes and into the drive head which is then attached to the AMS up-and-down hammer attachment or a rotary hammer drill. The retract-a-tip SGVP can be driven into the soil to a pre-determined depth, opened, and a vapor sample extracted. The tip can then be closed and driven to a greater depth, re-opened, and another sample taken. Tip can be removed from ground and can be decontaminated after sample is taken.

Includes: Ten GVP dedicated tips with umbrella, Retract-A-Tip, 5/8˝ tip drive end, four 3´ GVP 5/8˝ extensions, 5/8˝ x 3´ heavy-duty extendable tile probe base, three 5/8˝ x 3´ heavy-duty tile probe extension, external drive adapter 3/4˝ ID, SDS-Max drill adapter, SDS-Max 1-1/2˝ carbide bit, slide hammer, slide hammer adapter 3/4˝ OD, hand pump, 3/16˝ ID x 1/4˝ OD x 250´ fluoropolymer tubing, removal jack AMS deluxe carrying case, AMS GVP manual, GVP instruction DVD video.

Deluxe Vapor Probe System with Retract-A-Tip and 250´ of tubing; does not include Hammer Drill Ⓞ	107 lbs.	**77448**	**$2458.00**

Accessories & Replacement Parts

SGVP Dedicated Tip with expandable Teflon washers	2 oz.	**77634**	**$17.95**
Retract-a-Tip SGVP Point	10 oz.	**77647**	**$232.95**
3´ Chrome Molybdenum Extension, 5/8˝ O.D.	2 lbs.	**77639**	**$121.25**
Replacement Stainless Steel Screens	1 oz.	**77650**	**$4.25**

En Core Discrete VOC Sampler

6833

This disposable, volumetric sampling device takes soil samples with minimal handling and maximum accuracy!

With its patented technology, it is the only sampling device on the market used for collection, storage and transfer of 5 gram or 25 gram VOC soil samples to meet ASTM standard D4547-98, plus it has been accepted by the EPA for sampling VOC's using EPA Method 5035. Ideal for sampling VOC's for tank removal, remediation clean-up, etc., the En Core Sampler is extremely easy to use. Simply attach the re-usable T-Handle to a single-use sampler, lock it in place, and push the sampler into the soil until the coring body is completely full. Then, remove the sampler wiping any excess soil from the coring body and cap it while it is still on the T-Handle. Once capped, remove the sampler from the T-Handle, attach the included circular label from the En Core Sampler bag to the cap on the coring body, return the full En Core Sampler to the zipper bag, seal it, and put the bag on ice for transportation to the lab. There is no need for field preservation using chemicals, and most importantly, the En Core Sampler avoids many sources for lab discrepancies assuring a more consistent and accurate analyses. The En Core Sampler is effective for storage of soil for up to 48 hours. **Two sampler sizes are available for your sampling needs:** a 5 gram or a 25 gram. T-Handle is sold separately.

5 Gram En Core Sampler	1 oz.	**78990**	**$8.75**
		200+	**$8.10**
25 Gram En Core Sampler	2 oz.	**78991**	**$8.75**
En Core T-Handle	6 oz.	**78992**	**$125.00**

Ⓞ Oversize. Ships at Oversize rate. See Shipping Information for details.

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AMS

AMS Extendible Steel Tile Probe
5823

Made in USA

Carbon steel with threaded flush joints. Pointed tip, thread-on cross handle. Can be combined with extensions for lengths up to 40′. Can be used with the Thread-on Hammer Attachment. Hammer attachment adapter (included). Made in USA.

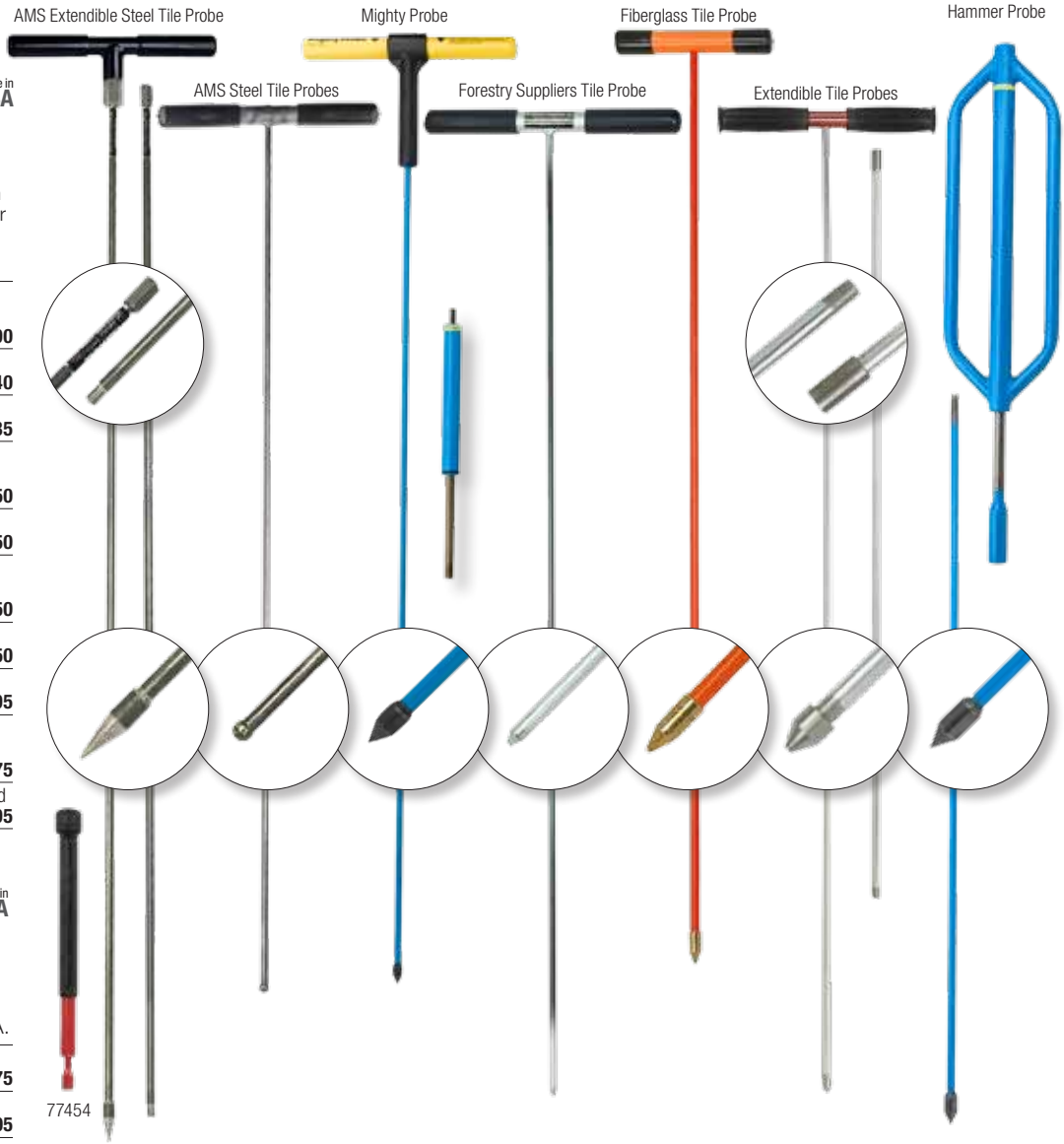
Extendible Steel Tile Probe, 5/8″ x 48″ 5 lbs.	77513	$102.90
5/8″ x 4′ Extension 4 lbs.	77514	$99.40
Replacement Tip, 5/8″ 3 oz.	77515	$15.35
Extendible Steel Tile Probe, 7/16″ x 48″ 3 lbs.	77542	$90.50
7/16″ x 4′ Extension 2 lbs.	77541	$62.50
Replacement Hammer Attachment Adapter, 7/16″ 4 oz.	77625	$20.50
Replacement Couplings, 7/16″ 1 oz.	77626	$8.50
Replacement Tip, 7/16″ 1 oz.	77627	$14.95
Thread-on Hammer Attachment, 5/8″ NC Thread 10 lbs.	77454	$173.75
Hammer Head Cross Handle, 5/8″ NC Thread 2 lbs.	77810	$93.95

AMS Steel Tile Probes
5824

Made in USA

For locating pipes, septic tanks, or other objects underground! 3/8″ Diameter carbon steel with a ball swedged on the tip for clearance. Cross handle included. Made in USA.

3/8″ x 42″ 2 lbs.	77537	$45.75
3/8″ x 60″ 2 lbs. X	77538	$51.95



Mighty Probe™
4340

Independently tested up to 50,000 volts following ASTM F711-89 procedures as well as being tested up to 45,000 volts (both dry and 48-hour water soaked) by a major utility company. This insulated soil probe features a 3/8″ diameter high strength steel alloy shaft which resists bending and bowing for easy probing of hard ground. The 1″ x 11″ solid steel handle is easy to grip with both hands, even when wearing gloves. Use the optional slide adapter (sold separately) to convert your probe into a mini-slide hammer probe. Constructed of high strength tool steel, the slide adapter provides a 6″ long stroke.

3/8″ x 48″ 4 lbs.	77518	$81.25
3/8″ x 60″ 4 lbs. X	77554	$82.50
9″ Slide Adapter 2 lbs.	77520	$54.00
Replacement Tip, pack of 3 2 oz.	77579	$16.95

Forestry Suppliers Tile Probe
5822

Made in USA

Use this tile probe to detect restrictive horizons, pipes, septic tanks, or other structures underground. Made of a high strength steel shaft, 48″L. 12″ Fixed handle with comfortable grips for penetration in difficult conditions.

3/8″ x 48″ 2 lbs.	77540	$42.00

Fiberglass Tile Probe
5825

Made in USA

Protection against possible electrical shock when working around buried electrical lines. T-handle has high density nylon cover. Steel tip measures 5/8″ x 3/4″.

1/2″ x 48″ 1 lb.	77543	$24.25
1/2″ x 60″ 1 lb. X	77561	$29.25

Extendible Tile Probes
2609

Made in USA

Use for marking exact locations of water or sewer mains, drain tiles, pipelines, etc. Each probe is manufactured to exact foot lengths so that contractors can accurately survey off the top of these probes to establish exact depths of underground objects. Made of 3/8″ high yield strength steel, these probes feature a stainless steel replaceable tip which inexpensively prolongs the life of your tile probe by allowing you to replace the tip when worn. Pistol grip handle has plastic grips to reduce hand cramping and finger fatigue.

4′ Tile Probe 4 lbs.	77544	$30.95
5′ Tile Probe 4 lbs. X	77553	$32.95
3′ Extension 1 lb.	77534	$16.95
Replacement Tip 1 oz.	77532	$5.95

Hammer Probe™
4341

This probe's integrated slide hammer makes driving into even the hardest ground easy. The 1/2″ diameter steel alloy shaft resists bending and bowing. The 16″ long x 1″ diameter high strength, impact-resistant steel handles are spaced 7-1/2″ apart for superior control, comfort, and easy lifting. Optional extension rod and coupler sold separately. **Total length:** 42″.

42″ Hammer Probe 15 lbs.	77521	$158.95
42″ Extension Rod 2 lbs.	77551	$33.25
Rod Coupler – Use to connect extension rod to probe 4 oz.	77552	$23.50
New! Replacement Tips, Pack of 3 6 oz.	77555	$25.75

X Items 60″ or more require an additional handling charge.

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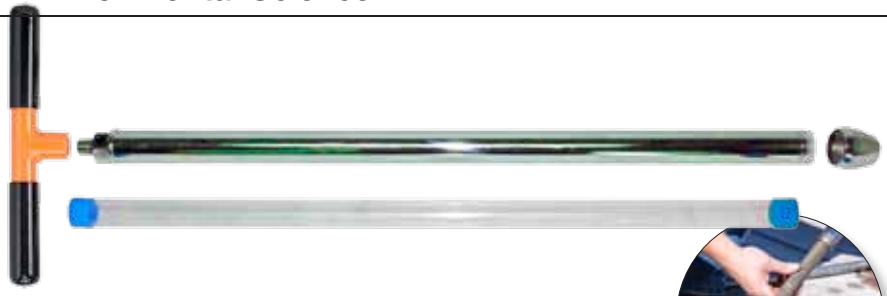


AMS Sand/Loose Sediment Probe
7221

Ideal for obtaining unconsolidated soil samples in a 1″ x 24″ poly liner. A 1″ core catcher ensures full sample recovery in the proper soil conditions. Includes 1″ x 24″ probe body, 10″ cross handle with comfortable grip, 1″ core catcher, 1″ x 24″ plastic liner, two 1″ plastic end caps, and a spanner wrench.

Sand/Loose Sediment Probe	4 lbs.	**77670**	**$196.50**
Replacement 1″ Core Catcher	1 oz.	**77671**	**$0.50**
1″ x 24″ Butyrate Plastic Liner*	2 oz.	**77531**	**$3.50**
1″ Polyethylene Liner Caps, Case of 100*	6 oz.	**77536**	**$32.95**

AMS Hammer Head Cross Handle
8052

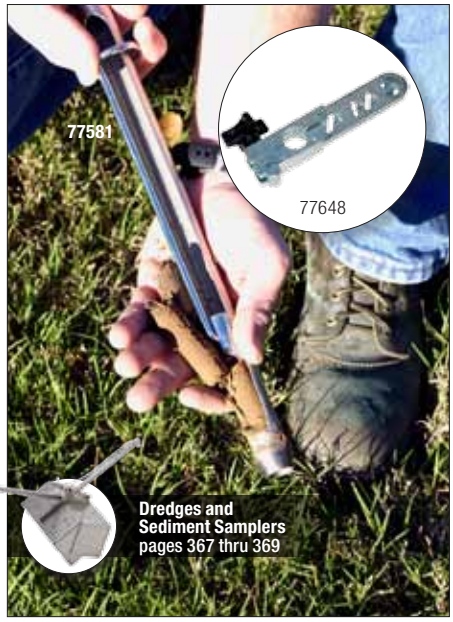
12″ dual-purpose cross handle can be used as a basic, manual-push cross handle or in place of a traditional slide hammer. Simply hammer the cross handle's built-in hammer head to drive the sampling device into the soil. 5/8″ threaded, 2″ stress-proof steel body and chrome molybdenum cross member.

Hammer Head Cross Handle, 5/8″ NC Thread	2 lbs.	**77810**	**$93.95**

AMS Soil Recovery Probes and Liners
3121

Top quality probes are made of high grade alloy tubing with chrome plating or durable stainless steel. Unslotted models require removable liners. Slotted models can be used with or without liners. Cross handle, plastic liner, and two end caps included with each probe. May be used with AMS extensions and hammer attachment.
Liners for all AMS soil recovery probes are 1-3/4″ longer than the size indicated to accommodate the AMS "reach and grab" liner removal system.

Probes		Unslotted				Slotted			
		Stainless Steel				Chrome Plated			
Length	Diameter	Weight	SN	$		Slot Length	Weight	SN	$
12″	7/8″					10″	2 lbs.	**77493**	**$188.50**
	1-1/8″	3 lbs.	**77651**	**$237.75**		10″	2 lbs.	**77495**	**$204.75**
24″	7/8″					13″	3 lbs.	**77494**	**$204.75**
	1-1/8″	4 lbs.	**77652**	**$260.50**		13″	3 lbs.	**77496**	**$220.75**
Liner & Liner Caps		For 7/8″ Probes				For 1-1/8″ Probes			
	Length	Diameter	Weight	SN	$	Diameter	Weight	SN	$
Butyrate Plastic Liner, Caps sold separately	12″	3/4″	1 oz.	**77498**	**$1.95**	1″	2 oz.	**77529**	**$2.25**
	24″	3/4″	2 oz.	**77522**	**$3.25**	1″	2 oz.	**77531**	**$3.50**
Polyethylene Liner Caps, Case of 100	–	3/4″	6 oz.	**77523**	**$32.95**	1″	6 oz.	**77536**	**$32.95**



Dredges and Sediment Samplers pages 367 thru 369

77653 shown with Soil Ejector 77581

AMS Soil Probes
3119

Three styles to choose from – regular chrome molybdenum steel, chrome-plated chrome molybdenum steel, or stainless steel. Chrome-plated chrome molybdenum probes are more rust-resistant than regular probes. Stainless steel probes are the most durable, rust-resistant, and are easily decontaminated. All probes have 7/8″ outside diameter and heat-treated, wear-resistant bit. Swedged on the bit end and bored to 11/16″ diameter – providing ideal clearance for easy sample removal. Nine inch cross handle threads onto each probe. 21″ Soil probes retrieve 10″L core sample; 33″ soil probes retrieve 13″L core sample. May be used with AMS extensions or hammer attachment.

AMS Soil Probes	Regular			Chrome-Plated			Stainless Steel		
Length	Weight	SN	$	Weight	SN	$	Weight	SN	$
21″	2 lbs.	**77450**	**$48.95**	2 lbs.	**77451**	**$49.95**	2 lbs.	**77653**	**$83.95**
33″	2 lbs.	**77452**	**$57.50**	2 lbs.	**77453**	**$62.25**	2 lbs.	**77654**	**$91.50**

Soil Probe Accessories

Thread-on Hammer Attachment, 5/8″ NC Thread	10 lbs.	**77454**	**$173.75**
Hammer Head Cross Handle, 5/8″ NC Thread	2 lbs.	**77810**	**$93.95**
Optional Soil Ejector for 21″ Soil Probes	4 oz.	**77581**	**$34.95**
Optional Soil Ejector for 33″ Soil Probes	6 oz.	**77421**	**$35.95**
Adjustable Foot Step for use with 7/8″ O.D. Soil Samplers	1 lb.	**77648**	**$53.50**

*Plastic Liner Caps (77483) are sold separately.

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AMS Soil/ Turf Probe
6559

Probe's small diameter minimizes damage to turf!

Made of chrome molybdenum and chrome-plated for durability and corrosion-resistance. Takes samples 1/2″ diameter and 7″ long. Cutaway side allows for easy inspection of samples in the probe. 9″ Welded handle. **Overall length:** 20.5″.

AMS Soil/Turf Probe 1 lb.		**76357**	**$72.50**

AMS Open-End Soil Probes
3120

Designed like slotted probes but open to the tip for faster removal of soil samples. Chrome-plated for durability and rust-resistance. Cross handle included.

7/8″ x 33″ Open-End Soil Probe 2 lbs.		**77781**	**$103.25**
1-1/8″ x 33″ Open-End Soil Probe 3 lbs.		**77881**	**$139.75**
Adjustable Foot Step for use with 7/8″ O.D. Soil Samplers 1 lb.		**77648**	**$53.50**

AMS Soil Probe with Replaceable Tip
8051

Probe is chrome-plated for durability, rust-resistance and features a heat-treated replaceable threaded tip. Complete with one regular replaceable tip, cross handle, and spanner wrench. **Total probe length:** 36″.

1″ x 36″ Soil Probe with Replaceable Tip 4 lbs.		**77790**	**$114.50**
1″ Heavy Duty Replacement Tip For Harsh Conditions 2 oz.		**77802**	**$21.95**
AMS Adjustable Foot Step, 1″ 16 oz.		**77649**	**$53.75**

AMS One-Piece Step Probe
7009

Just step down on the fixed step of this one-piece probe to apply pressure and obtain a soil sample. Sample can then be easily removed. Made of aircraft-quality alloy steel and coated with chrome plating, the probe has a 13″ long x 7/8″ diameter slot for the sample. **Total probe length:** 40″.

AMS One-Piece Step Probe 2 lbs.		**77636**	**$80.25**

JMC Backsaver Soil Sampler
3130

Use your legs instead of your back!

The Backsaver has two foot pedals which allow you to step down hard to sink your tube into the ground, but also let you control the height of the hand grip, preventing the risk of shoulder, wrist, arm, or back injury. Made of strong, lightweight, chrome-plated square tubing with a handgrip of round tubing. Features a special cleaning tool with its own leather pouch. Order sample tubes separately. Tubes for wet soils cut a 11/16″ diameter core. Tubes for dry soils cut a 3/4″ diameter core.

JMC Soil Sampler	7 lbs.	**77414**	**$369.50**
18″ Tube for wet soils	15 oz.	**77415**	**$77.25**
15″ Tube for dry soils	13 oz.	**77416**	**$74.75**
15″ Tube for wet soils	13 oz.	**77417**	**$74.75**
12″ Tube for dry soils	11 oz.	**77418**	**$72.25**
2′ Extension Rod	2 lbs.	**77420**	**$49.95**

AMS Hammer Head Soil Probe Kit
2994

Kits come with a soil probe, a 16″L hammer head cross handle, and an impact-absorbing hammer.

Standard Hammer Head Soil Probe Kit, **Probe Dia.:** 7/8″. **Probe Length:** 33″. **Probe Window:** 13″. **Probe Tip:** Fixed.	9 lbs.	**77475**	**$199.90**
Heavy-Duty Hammer Head Soil Probe Kit, **Probe Dia.:** 1″. **Probe Length:** 36″. **Probe Window:** 13″. **Probe Tip:** Replaceable (includes wrench).	11 lbs.	**77476**	**$225.00**
Heavy-Duty Hammer Head Soil Probe Kit with 24″ Window, **Probe Dia.:** 1″. **Probe Length:** 36″. **Probe Window:** 24″. **Probe Tip:** Replaceable (includes wrench).	11 lbs.	**77474**	**$243.00**
1″ Heavy Duty Replacement Tip For Harsh Conditions	2 oz.	**77802**	**$21.95**
Adjustable Foot Step for use with 7/8″ O.D. Soil Samplers	1 lb.	**77648**	**$53.50**
AMS Adjustable Foot Step, 1″	16 oz.	**77649**	**$53.75**

AMS Gator Probe
2404

This one-of-a-kind probe provides the benefits of a closed-end soil probe but also features a hinged jaw that opens for easy access to the entire soil core - just like an open-ended soil probe! Ideal for composite sampling or field extraction of representative cores for later analysis by a soil lab. A foot step enables you to quickly drive the probe into the ground, and the 10″ handle features grips for maximum comfort. Nickel-plated and constructed of heavy-duty 0.109w DOM steel.

Sample Recovery Length: 12″. **Dimensions: Overall Length,** 42″; 9/16″ ID x 1″ OD Tip.

AMS Gator Probe	5 lbs.	**77829**	**$189.00**

Work Gloves
pages 618 and 621

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Tile Probes
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page 290

Tubular Soil Sampler
4323

One-piece, stainless steel tubular samplers are ideal for taking soil samples.

Tubular Soil Sampler, Takes a sample 7″L x 1/2″ Dia. 5 oz.	**76971**	**$19.50**
Large Tubular Soil Sampler, Takes a sample 15″L x 3/4″ Dia. 1 lb.	**76972**	**$37.95**

LaMotte® Soil Sampling Tube
3125

For shallow sampling.

The saw-toothed cutting edge of this galvanized steel, light-duty sampler is tapered for easy core removal! The side is cutaway for inspection of the soil core while still in the tube and for easy core removal. Takes a 1″ core sample to a depth of 10″. Furnished with 20 LaMotte Soil Sampling Bags.

LaMotte Soil Sampling Tube 1 lb.	**76924**	**$31.75**

Oakfield Soil Sampling Equipment
3123

These soil sampling tools are constructed of nickel-chrome plated, 16-gauge steel to resist abrasion, plus all parts are interchangeable! Augers are 1-1/4″ in diameter, have double twist with 2-1/4″ pitch. The auger sections are 8″ long with 4″ shanks. Thread-on features 1/2″ x 13 threads per inch. Tubes are designed to eliminate friction in the tube after cutting the sample. Samples may be unloaded from the tube without binding or compacting. A strong, fiberboard case protects and keeps the kit clean.

18″ Tube Kit
(Model H)

Contains 8″ screw-on handle, 18″ tube which extracts a sample 15″L x 13/16″dia. 3/4″ Screw-in tip (S-2) for moist soil. Fiberboard case.

Model H 2 lbs.	**77019**	**$97.25**

19″ Tube Sampler
(Model HA)

A one-piece sampler with a 19″ tube which extracts a sample 15″L x 3/4″dia. 8″ Handle is welded on. Screw-in tip (S-2) for moist soil cuts a soil sample 3/4″Dia.

Model HA 1 lb.	**77026**	**$59.50**

36″ Tube Sampler Soil Probe
(Model L)

A one-piece, welded-sampler with a 12″ tube which extracts a sample 9″L x 3/4″dia. Screw-in tip (S-2) for moist soil cuts a sample 3/4″dia.

Model L 3 lbs.	**77117**	**$107.75**

36″ Tube Sampler with Step
(Model LS)

A one-piece, welded-sampler with a 12″ tube with foot step for down-pressure. Extracts a sample 9″L x 3/4″dia. Screw-in tip (S-2) for moist soil cuts a sample 3/4″dia.

With S-1 Tip for dry soil 3 lbs.	**78970**	**$124.75**
With S-2 Tip for moist soil 3 lbs.	**78971**	**$124.75**
With S-3 Tip for wet soil 3 lbs.	**78972**	**$124.75**
With S-4 Tip for stony soil 3 lbs.	**78973**	**$124.75**

Hellige-Truog
Soil pH Test Kit
page 289

USDA Calibrated
Soil Identification Kit
page 291

Soil Profiler
3040

Quickly and easily analyzes root structure and soil stratification of turfgrass.

30″ Long sampler takes 7″ deep x 4″ wide x 1″ thick undisturbed soil profile that can be replaced or dried and mounted for further reference. Simply raise instrument approximately one to two feet above turf and quickly drive it straight down, pushing with your foot until a desired depth of up to 7″ is reached. Remove sampler, unscrew and remove top half of blade to observe soil sample. For added durability, bottom half of blade is welded to handle. To replace soil sample, hold hand over open face of cutter blade and insert sample back into turf, then lift blade straight up leaving sample. Stainless steel construction and non-slip grip handles.

Soil Profiler	6 lbs.	**77035**	**$196.00**

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Oakfield Replacement Parts

Tips, Handles and Extension Rods

S-1 Mini-Tip with 3/4″ opening, for dry soils	1 oz.	**77110**	**$11.50**
		5+	**$10.60**
S-2 Regular Tip with 3/4″ opening, for soils ranging from "moist" to "almost dry"	1 oz.	**77111**	**$11.50**
		5+	**$10.60**
S-3 Wet Tip with 11/16″ opening, for wet soils	1 oz.	**77112**	**$11.50**
		5+	**$10.60**
S-4 Super Duty Tip with 3/4″ opening, for coarse, stony soils	2 oz.	**77113**	**$11.50**
		5+	**$10.60**
12″ Handle for Oakfield Soil Sampling Models B, DB3, C, S and A	11 oz.	**77020**	**$32.75**
12″ Extension Rod	12 oz.	**77021**	**$32.75**
30″ Extension Rod	2 lbs.	**77024**	**$46.25**

Soil Tubes with S-2 Tip

12″ Tube extracts sample 8″L x 13/16″ dia.	12 oz.	**77022**	**$72.95**
15″ Tube extracts sample 12″L x 13/16″ dia.	14 oz.	**77109**	**$77.50**
18″ Tube extracts sample 15″L x 13/16″ dia.	15 oz.	**77023**	**$79.25**

Cleaning Brush

22″ x 1-1/4″ Brush for auger and tube samplers	5 oz.	**75148**	**$29.95**

Foot Jack (Nonslip Surface)

Lets you use foot power. Fits on 12″ and 30″ extension rods.

Foot Jack	6 oz.	**77092**	**$33.50**

Sterile Sample Bags
page 308

36″ Tube Kit

(Model B)

Contains 12″ handle, two 12″ extension rods, 12″ tube which extracts a sample 8″L x 13/16″dia. 3/4″ Screw-in tip (S-2) for moist soil. Fiberboard case.

Model B	3 lbs.	**77015**	**$160.50**

Oakfield 36″ Auger Kit

(Model C)

Contains a 12″ handle, two 12″ extension rods, and a 12″ x 1-1/4″ auger which is flighted 8″.

Model C	4 lbs.	**77016**	**$342.25**

Oakfield 36″ Auger/Tube Kit

(Model A)

Contains 12″ handle, two 12″ extension rods, 12″ x 1-1/4″ auger which is flighted 8″. Also includes a 12″ tube with screw-in (S-2) tip which extracts a 8″L x 13/16″dia. sample from moist soil.

Model A	4 lbs.	**77014**	**$397.95**

39″ Tube Kit with Three Tips

(Model DB3)

Allows you to select the tip to fit soil and moisture conditions. **Contains:** 12″ handle, two 12″ extension rods, 15″ tube which extracts a sample 12″L x 13/16″dia. Kit includes 3/4″ (S-1) mini-tip for dry soil, 3/4″ (S-2) regular tip for moist soil, 11/16″ (S-3) tip for wet soil.

Model DB3	4 lbs.	**77115**	**$196.95**

Oakfield 42″ Auger Kit

(Model S)

Contains 12″ handle, 30″ extension rod, and a 12″ x 1-1/4″ auger which is flighted 8″.

Model S	4 lbs.	**77017**	**$308.75**

Turf-Tec Soil pH Meter
page 284

Mascaro Profile Sampler

8083

View samples instantly!

This profile sampler's cutter blade features a specially-designed hinge that allows you to open the blade and view your soil sample instantly – with no bolts or screws to loosen! The sampler takes undisturbed soil profiles up to 7″ deep x 3″ wide x 1/2″ thick. Just raise the sampler one to two feet above the turf and drive it straight down quickly to obtain the sample. The sample can then be photographed and easily replaced without damaging the turf. Features solid steel construction, a one-piece welded design for stability, zinc plating for rust proof protection, and nylon grip handles. **Overall length:** 25″.

Mascaro Profile Sampler	7 lbs.	**77036**	**$219.00**

AMS

AMS Turf Profiler

2005

Take clean wedge samples quickly and easily with this turf profiler. Samples can be assessed for moisture content, root structure, pest presence or chemical composition. Features include comfortable rubber grips on the cross handle and a detachable plate for easy sample viewing or removal. Samples can be easily replaced in the soil if desired. Takes soil samples up to 7″ deep x 3-1/2″ wide x 3/4″ thick.

Turf Profiler	4 lbs.	**77041**	**$159.70**

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Ore Sample Bags with Data Tags
3175

Ideal for handling ore, rock or mineral samples.

Each heavy-duty sample bag has a water-, insect-, and mildew-proof data tag sewn into the side seam for recording important information such as Area, County, State, Sample No., and Remarks. Made of 10 oz. Duck material. Sold individually.

6″ x 11″ Sample Bag 2 oz.	**79173**	**$2.00**
	50+	**$1.80**
10″ x 17″ Sample Bag 3 oz.	**79174**	**$2.95**
	50+	**$2.60**
14″ x 18″ Sample Bag 5 oz.	**79175**	**$4.10**
	50+	**$3.35**
17″ x 28″ Sample Bag 8 oz.	**79176**	**$6.10**

Soil Sample Bags and Ties
3131

4-Mil

Clear, moisture-tight, polyethylene bags are 10″W x 18″L x 4-mils thick. Ties are sturdy paper laminated to a flexible wire.

Clear Plastic Pollination Bags — Bundle of 100 5 lbs.	**79147**	**$22.95**
	5+	**$18.95**
	10+	**$17.25**
8″ Twist-Ems Twist Ties, Bundle of 1,000 1 lb.	**79126**	**$6.25**
	10+	**$5.40**

Rubbermaid®

Rubbermaid® Utility Pail
1984

Holds 14 quarts! Thick rim and convenient metal handle. Polyethylene. Graduated in liters, pints, quarts, and gallons. 12″ Dia. x 11-1/4″ H.

Rubbermaid Utility Pail 2 lbs. Ⓒ	**54028**	**$22.75**
	6+	**$19.95**

Zippit® Bags
3134

Store soil and other samples securely in these sturdy, 2-mil or 4-mil plastic bags with easy-to-close zip top. Available in clear or with white write-on strip for identification.

2 Mil

2 Mil, 2″ x 2″ Clear, Case of 1000	1 lb.	**79108**	**$12.50**
2 Mil, 2″ x 3″ Clear, Case of 1000	1 lb.	**79109**	**$14.75**
2 Mil, 3″ x 4″ Clear, Case of 1000	2 lbs.	**79111**	**$20.25**
2 Mil, 3″ x 5″ Clear, Case of 1000	3 lbs.	**79113**	**$25.25**
2 Mil, 4″ x 4″ Clear, Case of 1000	3 lbs.	**79188**	**$26.25**
2 Mil, 4″ x 6″ Clear, Case of 1000	4 lbs.	**79189**	**$35.25**
2 Mil, 4″ x 8″ Clear, Case of 1000	3 lbs.	**79194**	**$44.25**
2 Mil, 5″ x 5″ Clear, Case of 1000	5 lbs.	**79195**	**$38.75**
2 Mil, 5″ x 8″ Clear, Case of 1000	6 lbs.	**79257**	**$54.75**
2 Mil, 6″ x 9″ Clear, Case of 1000	10 lbs.	**79259**	**$73.50**
2 Mil, 2″ x 3″ With White Write-On Strip, Case of 1000	1 lb.	**79110**	**$16.75**
2 Mil, 3″ x 4″ With White Write-On Strip, Case of 1000	2 lbs.	**79112**	**$23.75**
2 Mil, 3″ x 5″ With White Write-On Strip, Case of 1000	3 lbs.	**79117**	**$26.75**
2 Mil, 4″ x 6″ With White Write-On Strip, Case of 1000	4 lbs.	**79192**	**$37.75**
2 Mil, 5″ x 8″ With White Write-On Strip, Case of 1000	7 lbs.	**79258**	**$63.25**
2 Mil, 6″ x 9″ With White Write-On Strip, Case of 1000	9 lbs.	**79278**	**$82.25**

4-Mil

4 Mil. 8″ x 8″, Clear, Box of 1000	21 lbs.	**79115**	**$86.75**
4 Mil, 10″ x 10″, Clear, Box of 1000	30 lbs.	**79288**	**$132.50**
4 Mil, 12″ x 15″, Clear, Box of 500	25 lbs.	**79116**	**$139.95**
4 Mil, 14″ x 24″, Clear, Box of 250	24 lbs.	**79290**	**$119.95**
4 Mil, 5″ x 8″ With White Write-On Strip, Case of 1000	12 lbs.	**79291**	**$68.95**
4 Mil, 6″ x 9″ With White Write-On Strip, Case of 1000	16 lbs.	**79292**	**$91.75**
4 Mil, 9″ x 12″ With White Write-On Strip, Case of 1000	32 lbs.	**79298**	**$181.95**

Tin Sample Canisters
3132

For soil samples, seeds, or small parts.

Deep drawn plain tin with tight-fitting cover that fits bottom to keep canister and cover together. Conforms to ASTM specifications as containers for testing the penetration of semi-solid and solid bituminous materials.

Diameter	Height	Capacity	Carton Of	Weight	SN	Carton	4+
2-3/8″	1-3/4″	4 oz.	36	3 lbs.	**77043**	**$42.25**	**$40.75**
2-3/4″	1-7/8″	6 oz.	36	3 lbs.	**77044**	**$42.50**	**$40.95**
3-1/8″	2″	8 oz.	18	2 lbs.	**77045**	**$29.25**	**$26.25**
4″	2-3/8″	16 oz.	12	2 lbs.	**77088**	**$31.25**	**$28.75**

Whirl-Pak Sterile Sample Bags
3133

2.5 mil Thickness, Write-On

Heavy-duty, sterilized, clear polyethylene write-on bags make identification of contents easy. Tape extends past wire, virtually eliminating the chance of bag puncture. 2.5 mil thick.

Size	Capacity	Box Of	Weight	Write-On	Box	10+
3″ x 7-1/4″	4 oz.	500	2 lbs.	**79225**	**$55.25**	**$51.95**
4-1/2″ x 9″	18 oz.	500	4 lbs.	**79226**	**$77.25**	**$72.25**
	18 oz.	100	12 oz.	**79227**	**$18.50**	**$17.50**
6″ x 9″	24 oz.	500	7 lbs.	**79230**	**$100.95**	**$90.95**

Hubco Soil Sample Bags
3135

Cloth

For samples of soil, sand, oil, and more. Made of poly/cotton blend cloth. Drawcords and weatherproof 2″ x 3″ tag. Box of 100.

WxD	Box Of	Weight	Cloth	Box	10+
3-1/2″ x 5″	100	1 lb.	**79216**	**$43.50**	**$39.95**
5″ x 7″	100	2 lbs.	**79217**	**$57.50**	**$53.50**
7″ x 12-1/2″	100	5 lbs.	**79218**	**$93.75**	**$88.25**
10″ x 17″	100	9 lbs.	**79208**	**$143.25**	**$133.25**

Ⓒ Combination English and Metric

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Dexsil Clor-N-Soil PCB Screening Kit
3346

For fast on-site detection of PCB in soil.

Works on all types of soil including sand, topsoil, sediment, and clay. Complete analysis time is about 10 minutes. The kit gives positive or negative colorimetric result to scale of 50 ppm. Kit includes stainless steel scoop, hand-held scale, extraction test tube, organic extraction solvent, filter-syringe assembly, reaction test tube, indicator test tube, and complete step-by-step instructions. Conducts one test only.

Dexsil Clor-N-Soil PCB Screening Kit	Ⓡ	6 oz.	**79018**	**$30.75**
			6+	**$29.50**
			12+	**$27.75**

Ⓡ Restricted. Cannot ship internationally.

Dexsil Clor-N-Oil PCB Screening Kit
3342

Determine if fluid can be classified as PCB or not in less than five minutes!

Portable and simple to use, the kit gives positive or negative colorimetric result to scale of 50 ppm. Kit includes disposable polyethylene pipet for obtaining sample, two test tubes with pre-measured test ampoules, and complete step-by-step instructions. Conducts one test only.

Dexsil Clor-N-Oil PCB Screening Kit	Ⓡ	3 oz.	**79019**	**$14.95**
			20+	**$14.25**

AMS

AMS Stainless Steel Shovel
3137

Ideal for all types of environmental sampling and clean-up jobs!

Durable stainless steel construction withstands caustic and corrosive materials that would normally damage other types of shovels. Stainless steel is also easily decontaminated after use. Pointed spade has front rolled step and measures 7-3/4″W x 11″D. Fine cutting edge makes digging easy in compacted material. Overall length is 54″.

AMS Stainless Steel Shovel	6 lbs.	**77683**	**$199.50**

AMS Stainless Steel Scoops
3136

Great for grab sampling!

Strong, smooth, stainless steel scoops are electro-polished to prevent rusting.

3 oz. Capacity, 2-1/4″ x 4″	6 oz.	**77563**	**$24.75**
6 oz. Capacity, 3-1/2″ x 5″	8 oz.	**77565**	**$24.75**

New! Stainless Steel Scoop
4984

5 oz. scoop is made from durable, high-quality stainless steel.

Stainless Steel Scoop	4 oz.	**54001**	**$3.95**
		6+	**$3.70**

Stainless Steel Pan, Bowls & Spoon
3139

For homogenizing soil grab samples.

Smooth walls and rounded interior corners prevent soil from collecting in corners and permit easier decontamination.

Full-size pan, 20-3/4″ x 12-3/4″ x 4″D	3 lbs.	**78306**	**$36.95**
		6+	**$34.95**
Bowl, 5 qt. capacity, 12-3/4″ x 5-1/2″	8 oz.	**78313**	**$9.75**
		6+	**$9.25**
Bowl, 8 qt. capacity, 13-3/4″ x 5″	12 oz.	**78314**	**$12.50**
		6+	**$11.50**
15″ Solid Spoon	4 oz.	**78310**	**$5.95**
		12+	**$5.25**

Manufacturer's Warranty 2 Year

Engel Portable Freezers
2251

Use these freezers to keep everything from food and beverages to field and biological samples cool! The reliable, efficient freezers offer fast freezing, are 100% CFC-free, and feature automatic temperature control.

Engel MD14F 15-Quart Freezer

Compact and portable, this professional freezer can refrigerate or freeze down to 0°F. Features include a top-opening access door in the lid and a 3.0 amp compressor. Includes a 9′ detachable 12V power lead. Two-year manufacturer's warranty.

Volume: 15 quarts. **Freezing ability:** 45°F to 0°F. **Power:** DC 12V (or 110V, converter required). **Inside dimensions:** 13.7″ x 7.5″ x 8″. **Outside dimensions:** 17.5″ x 11.25″ x 15.6″.

Engel MD14F 15-Quart Freezer			
28 lbs.		**31152**	**$645.00**

Engel 35 34-Quart Freezer

Housed in a durable powder-coated steel exterior, this mid-size commercial freezer refrigerates or freezes to below 0°F. The freezer features a 2.5 amp compressor and a convenient removable basket. A 9′ detachable 12V power lead is included. Two-year manufacturer's warranty.

Volume: 34 quarts. **Freezing ability:** 40°F to below 0°F. **Power:** AC/DC (12-24V or 110V). **Inside dimensions:** 15.4″ x 10.8″ x 12″. **Outside dimensions:** 25.5″x 14.3″x 16″.

Engel 35 34-Quart Freezer			
59 lbs.		**31151**	**$868.00**

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Archaeological Picks and Trowels page 314

Estwing

Picks and Hammers

Estwing® Big Blue Rock Pick
8555

Forged, one-piece solid steel. Large striking face. Permanently molded-on, patented Shock Reduction Grip. 24 oz. Head. **Head Length:** 6-3/4″. **Overall Length:** 13-1/2″.

Estwing Big Blue Rock Pick 2 lbs.	**33327**	**$43.95**

Estwing® Geo/Paleo Pick
2114

The perfect tool for all geological and paleo digs! Handle measures 25″ long and the head is 14″ from pointed edge to chisel edge. Other features include a durable powder-coated finish and a textured vinyl grip.

Estwing Geo/Paleo Pick 5 lbs.	**33347**	**$66.95**

Estwing® Pointed-Tip Rock Picks
3145

Forged, one-piece solid steel. Nylon-vinyl grip.

6″, 14 oz. Head; 11″L 1 lb.	**33320**	**$33.95**
7″, 22 oz. Head; 13″L 2 lbs.	**33300**	**$34.95**

Estwing® Leather Grip Rock Pick
3144

Forged, one-piece solid steel with a polished and formed leather grip.

7″, 22 oz. Head; 13″L 2 lbs.	**33321**	**$41.75**

Estwing® Big Blue Chisel-Edge Rock Pick
8554

Forged, one-piece solid steel. Large striking face. Permanently molded-on, patented Shock Reduction Grip and tough nylon end cap. 22 oz. Head. **Head Length:** 7″. **Overall Length:** 12″.

Estwing Big Blue Chisel-Edge Rock Pick 2 lbs.	**33326**	**$37.75**

Estwing® Long Handle Rock Pick
3143

Long, 15″ handle gives extra leverage and prying power. Forged, one piece solid steel. Nylon vinyl grip.

7-1/2″, 22 oz. Head; 16-1/4″L 2 lbs.	**33325**	**$38.50**

Estwing® Chisel-Edge Rock Picks
3146

Forged, one-piece solid steel. Nylon-vinyl grip.

6″, 12 oz. Head; 10-1/2″L 1 lb.	**33350**	**$33.50**
7″, 20 oz. Head; 11-1/2″L 2 lbs.	**33360**	**$33.95**
7-1/4″, 24 oz. Head; 11″L 2 lbs.	**33349**	**$35.50**

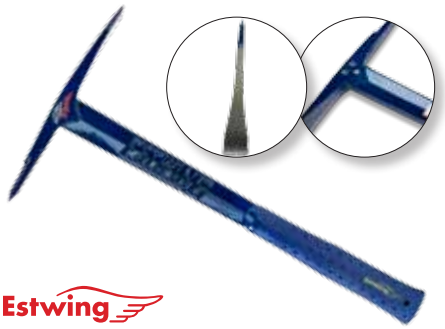
Estwing® Chipping Hammer
3148

Forged, one-piece solid steel. Fully polished finish. Nylon-vinyl grip.

7″, 14 oz. Head; 11″L 1 lb.	**33356**	**$29.75**

Soft-Frame Goggle page 595

Warning: Picks may chip when struck against rocks or other hardened surfaces or tools. Always wear safety goggles. Bystanders should also wear safety goggles.



Estwing

New! Estwing® Burpee Pick
4866

Named for the nationally recognized Burpee Museum of Natural History in Rockford, IL. Easy to carry on distant outcrops, it weighs only 2.25 lbs. Features include magnets embedded in one side of the head for testing magnetism in rocks and minerals, Estwing's patented nylon shock reduction grip, metallic blue color with UV coating, a blade end for clearing covering vegetation, and a pick end for digging mineral samples and fossils. The pick measures 17″L overall and from the blade to pick is 9″L.

Weight: 2.25 lbs. **Length:** 17″. **Length from blade to pick:** 9″.

Estwing Burpee Pick	2 lbs.	**33359**	**$66.95**

Estwing® Leatherette Sheath
3151

Fits all Estwing picks except Chipping Hammer and 7-1/4″ Chisel-Edge Rock Pick with 24 oz. head. Fits belts up to 1-1/2″ wide.

Estwing Leatherette Sheath	4 oz.	**33340**	**$10.25**

Fits-All Pick Holster
3149

Accepts any type of pick or chipping hammer.

Safety strap fastens with strong snap. Very durable, stiff leather. Belt slots are 2″.

Fits-All Pick Holster	4 oz.	**33370**	**$7.75**

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Estwing® Rock Chisels
3155

All chisels have unsurpassed temper and vinyl hand grip.

7″ Estwing Rock Chisel, For splitting hard and thickly-bedded rocks, 2.375″ cut point, 7″ long.	2 lbs.	**33351**	**$18.25**
8″ Estwing Rock Chisel, For splitting, 1-1/4″ wide blade, 8″ long.	1 lb.	**33352**	**$18.50**
9″ Estwing Rock Chisel, For wedging and prying, 5/8″ diameter point, 9″ long.	1 lb.	**33358**	**$18.50**
12″ Estwing Rock Chisel, For pockets, 1/2″ diameter, 12″ long.	8 oz.	**33353**	**$18.50**

Estwing Gad Pry Bar
3152

Forged steel. One end features a chiseled point for breaking and chipping rocks. The pry end allows you to easily pry rocks apart. 18″ Long.

Estwing Gad Pry Bar	1 lb.	**33357**	**$39.95**

Estwing® Crack Hammers
3147

Forged, one-piece solid steel. Nylon-vinyl grip.

2 lb. Head; 11″ handle	3 lbs.	**33400**	**$31.50**
3 lb. Head; 11″ handle	3 lbs.	**33397**	**$31.50**
4 lb. Head; 16″ handle	5 lbs.	**33399**	**$35.95**
Crack Hammer Holster, Fits Estwing Crack Hammers	4 oz.	**33390**	**$8.25**

Estwing® 48 oz. Engineer's Hammer
8527

Bonded and molded Shock Reduction Grip® offers superior comfort and durability while also reducing the vibrations caused by impact. Head and handle forged in one piece. 48 oz. Head. 16″L.

Estwing 48 oz. Engineer's Hammer	4 lbs.	**67243**	**$32.25**

Warning: Picks may chip when struck against rocks or other hardened surfaces or tools. Always wear safety goggles. Bystanders should also wear safety goggles.

New! Estwing® Geo Backpack
4867

This heavy-duty geology backpack is ideal for use in the field. Features include waist support, a front pick hammer pocket for easy access, a cell phone holder, a water bottle holder and a huge bottom compartment with plastic case.

Estwing Geo Backpack Large	4 lbs.	**33387**	**$99.95**

Versalume™ Portable UV Light
3184

Actually fits in your pocket, yet delivers a full range of UV performance – longwave, shortwave, or both. The bulb is divided into two sections, a frosted side for longwave and a clear side for shortwave. To get shortwave, simply cover the frosted lens with your hand, or for longwave, cover the clear lens with your hand. To get both shortwave and longwave at the same time, leave both sides uncovered. Light rotates 360°. Built-in handle opens to stand. Operates on four AA flashlight batteries (not included) for up to four hours or on an AC adapter (included). Molded plastic case with removable metal filter holders. 4 watt UV light. A Story of Fluorescence book is included with every light. **Dimensions:** 8″ x 4″ x 1-3/4″.

Versalume Portable UV Light	1 lb.	**02252**	**$106.95**
Replacement Short & Longwave UV Light Tube	1 oz.	**02253**	**$56.50**
AA cell Alkaline Batteries, pack of 4	7 oz.	**02352**	**$3.25**

UV LED Flashlight
8601

Ideal for fluorescence detection, dye tracing, mineral analysis, forensic analysis, and forgery detection. This compact light features simple, rugged circuitry and a visible light reduction filter. Nylon belt holster included. **Wavelength:** 385 nm.

9-LED UV Flashlight

Power: 3 AAA batteries (included).
Dimensions: 4.5″ x 2″ x 1.5″.

9-LED UV Flashlight	5 oz.	**02218**	**$35.95**

51-LED UV Flashlight

Power: 3 AA batteries (included).
Dimensions: 6.5″ x 2.5″ x 2.5″.

51-LED UV Flashlight	13 oz.	**02220**	**$66.95**

Caution: Limit exposure of your eyes to shortwave ultra-violet rays. These rays can "sunburn" the eyes and cause uncomfortable irritation. Do not look into a shortwave lamp when it is turned on. Wear protective glasses if working near a shortwave lamp for extended periods.

New! Estwing® Geo Briefcase
4868

Keep your tools handy and your specimens safe with this briefcase style geology bag! Features include a front pick/hammer pocket for easy access, a padded shoulder strap, 3 compartments with a tool pouch insert, a cell phone holder and a water bottle holder.

Estwing Geo Briefcase	7 lbs.	**33389**	**$65.50**

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JIM-GEM® Quality Leather Field Case for Geologists

3172

Made to specifications of the U.S. Geological Survey. Two pouches. Book pouch is (5-1/2″ x 8-1/2″ x 1/8″) for Interior Dept. D1-6 or similar books; inner pouch (5-1/2″ x 8-1/2″ x 3/4″) for wider items. Front panel has pockets for scales. Buckle fastener. Belt loops.

Leather U.S.G.S. Field Case 15 oz.	33384	$37.95	

Leather Belt

Fits sizes 30″ to 40″. Nickel-plated center-bar buckle. 1-3/4″ Wide.

Leather Belt for 30″ - 40″ sizes 10 oz.	93708	$23.75

Nalgene® Acid Bottle

6453

Polyethylene bottle with polypropylene snap cap. Dispenses one drop at a time.

0.48 oz./15 ml Capacity 1 oz.	53676	$3.75
	24+	$3.50
	72+	$3.20

Acid Bottle Case

3170

For the standard 1-3/8″ x 3/4″ oval bottle. High enough (3-3/4″) to cover rubber squeeze dropper (bottle and dropper not included). Belt loop.

Acid Bottle Case 2 oz.	33382	$11.95

Munsell Color Books page 290

Stainless Steel Mesh Sieve Set

7489

These economical sieves feature stainless steel mesh and steel frames. **The set of six sieves includes the following mesh sizes:** 5 (4,000 micron), 10 (2,000 micron), 35 (500 micron), 60 (250 micron), 120 (125 micron), and 230 (63 micron). Includes lid and catch pan. **Sieve Diameter:** approximately 7″.

Stainless Steel Mesh Sieve Set	5 lbs.	53636	$149.00

Sper Scientific Digital Radiation Meter

2779

Utilizing a Geiger-Muller tube detector, this compact meter can detect minuscule amounts of gamma, beta, or X-rays. The meter is ideal for scanning work areas and clothing for traces of radioactivity after cleanup. A chirping sound is emitted with each count as radiation intensity increases. The 95db audible alarm can be set at any point within the meter's range. The adjustable auto power-off feature prolongs battery life, and the meter also indicates when battery power is low or a reading is over range. Includes soft carrying case, battery, and certificate of compliance indicating that the meter has been tested in a Cs-137 field for two points of linearity and overall operation.

Range: 0.1 ~ 199.9 uSv/hr; 0.1 ~ 199.99 mRem/hr. **Accuracy:** ±15%. **Energy Response:** 30KeV ~ 1.5MeV beta, gamma, and X-ray radiation. **Power:** 9V battery (included). **Battery Life:** 50 hours at normal background levels. **Dimensions:** 5-1/2″ x 2-7/8″ x 1-1/2″. **Weight:** 8 oz.

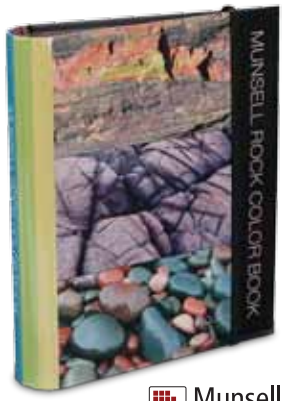
Digital Radiation Meter 13 oz.	94104	$467.00	

Mineralab Deluxe Hardness Pick Set & Mineral Identification Kit

3180

Use this set to test the hardness of minerals for accurate identification under Mohs' hardness scale ranging from 1 to 10. Kit includes four double-ended picks comprising eight points made of various metals and alloys with Mohs' hardness values numbering 2, 3, 4, 5, 6, 7, 8, and 9. Points are large enough to be resharpened. Kit also includes a grinding stone for sharpening; a glass plate with a hardness of 5.5 which, when scratched, quickly determines a hardness range; a streak plate for testing a mineral's streak color; a magnet for testing magnetic rocks such as magnetite and pyrrhotite; and complete instructions. All tools are packaged in an attractive, compact, mahogany-finished wooden case. 2-1/2″ x 7″ x 2″.

Mineralab Deluxe Hardness Pick Set & Mineral Identification Kit 1 lb.	33464	$88.95
	3+	$83.50



Munsell COLOR x-rite

Munsell® Geological Rock-Color Chart

3081

This new edition is a revision of the previously published Geological Society of America (GSA) Rock-Color Chart prepared by the Rock-Color Chart Committee. Included are 115 color chips with the Munsell numerical designation for identifying the range of rock colors. Works with either wet or dry specimens. Excellent for describing the color of medium to fine-grained rocks. Also helpful when working with coarse-grained rocks. A neutral mask is included for isolating individual colors. Loose leaf binder. 2009 Revised Washable Edition. **Page Dimensions:** 4-3/8″ x 7-1/4″. **Binder Dimensions:** 6″ x 7-3/4″ x 1″.

Munsell Geological Rock-Color Chart 9 oz.	77333	$75.50

Ceramic Ring Magnet

5821

32 mm (1.26″) in diameter x 6 mm (0.24″) thick with a 16 mm (0.63″) hole.

Ceramic Ring Magnet	2 oz.	33361	$1.50

[search engine powered by magazooms.com]

Dual Manufacturing Standard Testing Sieves
4494

Brass frame with stainless steel mesh.

These precision sieves feature heavy gauge brass frames and extended bottoms which are drawn from a single piece of brass and have no seams. The stainless steel mesh is soldered onto the frame and bottom. A multi-step manufacturing process ensures that all pieces are assembled together to form a seamless bond, resulting in no material loss between the mesh and frame. The sieves stack together easily. Meet ASTM – E11, ANSI, ISO, and NBS specifications. All sieves are 2″H x 8″ diameter.

Newark Standard Testing Sieves
3164

Exceptionally accurate!

Not only are the mesh counts and openings accurate, but there are no crevices or other "catch all" traps to retain particles and give false analyses. Newark sieves will take care of most sizing, testing, and grading requirements. By using one or more pans with extended rims, you can make up any combination of sieves to provide multiple screen analyses simultaneously. Meet ASTM, NBS, ASA specs, and ISO recommendations. All sieves are carefully inspected prior to shipment and individually boxed for your convenience. All sieves are 2″H x 8″ diameter.

Brass Pan and Cover
3165

Use in combination with testing sieves (sold separately) when vigorously shaking samples for separation. Pan and cover sold separately.

8″ Diameter Pan 1 lb.	**53712**	**$38.25**
8″ Diameter Cover 12 oz.	**53714**	**$30.50**

	Weight	No. 4 4.75 mm 0.187″	No. 10 2.00 mm 0.0787″	No. 14 1.40 mm 0.0555″	No. 18 1.00 mm 0.0394″	No. 25 710 µm 0.0278″	No. 35 500 µm 0.0197″	No. 40 425 µm 0.0165″	No. 45 355 µm 0.0139″	No. 60 250 µm 0.0098″	No. 80 180 µm 0.0070″	No. 100 150 µm 0.0059″	No. 120 125 µm 0.0049″	No. 140 106µm 0.0041″	No. 170 90 µm 0.0035″	No. 230 63 µm 0.0025″	No. 270 53 µm 0.0021″	No. 325 45 µm 0.0017″	$
Dual	2 lbs.	**53613**	**53617**	**53620**	**53621**	**53622**	**53623**	**53648**	**53649**	**53650**	**53651**								**$54.75**
	1 lb.											**53652**							**$55.50**
	1 lb.												**53653**						**$55.95**
	1 lb.													**53654**					**$56.95**
	1 lb.														**53655**				**$62.25**
	1 lb.															**53659**			**$89.90**
	1 lb.																**53660**		**$99.90**
	1 lb.																	**53661**	**$123.95**
Newark Brass	1 lb.	**53601**	**53700**	**53701**	**53702**	**53703**	**53704**	**53602**	**53705**	**53706**	**53707**								**$68.25**
	1 lb.											**53666**							**$68.25**
	1 lb.												**53708**						**$68.95**
	1 lb.													**53667**					**$79.75**
	1 lb.														**53709**				**$84.95**
	1 lb.															**53710**			**$99.50**
	1 lb.																**53668**		**$112.50**
	1 lb.																	**53711**	**$134.50**

Keck Sand Shaker
3179

With 20 sieves.

An accurate mechanical sieve kit designed to provide reliable grain size analysis! 20 stainless steel screens including one each of the following U.S. **Sieve Sizes:** 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 35, 40, 60, 100, 120, 140, 200, 230 and 270. Samples are placed into five, clear 2″ acrylic cylinders and volumetric percentages are indicated on the shaker frame. **Range:** 0 to 100% in 5% increments.

Keck Sand Shaker 2 lbs.	**53691**	**$123.75**
3+		**$115.50**

Hubbard #3076 Screen Four Sieve Kit
3168

Plastic Frames

Used to separate and grade samples. Stacked set consists of four screen sieves with graduated mesh sizes, a solid container at the bottom, and a lid. Kit includes four high-impact plastic sieves, 6-3/4″ x 3″ with wire mesh. Sizes 5, 10, 60, 230 bottom pan, lid.

Hubbard #3076 Screen Four Sieve Kit 3 lbs.	**53716**	**$64.75**
3+		**$61.25**

Hubbard #548 Screen Six Sieve Set
3167

Plastic Frames

Used by students to separate and grade samples. Set includes six interlocking sieves with plastic frames and graduated stainless steel wire screens, a solid container at the bottom, and snap-on lid. U.S. Bureau of Standard mesh sizes 5, 10, 35, 60, 120, 230. 6-3/4″ x 3″.

Hubbard #548 Screen Six Sieve Set 3 lbs.	**53715**	**$91.95**
3+		**$84.95**

Mini-Sieve™ Micro Sieve Set
3166

Mesh inserts can be changed or cleaned by unscrewing the screen-holding sections. Set consists of four interchangeable screen-holding sections, a catch pan, and a friction-fit cover – all polypropylene. Eight phosphor-bronze mesh inserts are also included: 25, 35, 45, 60, 80, 120, 170, and 230 mesh. **Dimensions:** Set, 2.55″ maximum O.D. x 6″H; Holding Section, 2″I.D. x 1-1/8″H. **Capacity:** each holding section holds about 60 cc.

Mini-Sieve Set 14 oz.	**53618**	**$147.50**

[search engine powered by magazooms.com]

Archaeological Plumb Bob
7904

This rustproof stainless steel plumb bob features a slim design and is ideal for use in excavation work and profile drawings. A metal ring centers the plumb and allows for easy attachment to a tape measure or plumb bob cord. **Weight:** 3 oz. **Dimensions:** 5/8″ dia. x 2.3″L.

Archaeological Plumb Bob	3 oz.	**53173**	**$13.95**

Archaeological Probe
7905

This durable probe should be in the toolbox of every field archaeologist! Hand-forged from rustproof stainless steel, the probe has two sharpened ends (one straight and one angled). Flattened, riffled sides improve grasp and allow you to work comfortably for long periods of time. **Dimensions:** 8″L x 3/16″ dia.

Archaeological Probe	2 oz.	**53174**	**$12.95**

Archaeological Spoon Excavator
7907

Featuring two spoon-shaped ends. Ideal for use in detailed archaeological excavations requiring the manipulation of small amounts of soil or dust. Large end measures 45 mm x 30 mm x 12 mm and removes about a tablespoon of soil. The small end measures 30 mm x 25 mm x 7 mm and removes about a teaspoon of soil. Hand-forged from rustproof stainless steel. 8″L.

Archaeological Spoon Excavator	2 oz.	**53177**	**$12.95**

Archaeological Brush
7908

Made from the durable escobillo plant, this brush quickly clears away moist or wet soil while leaving few smears and streaks behind. Arranged in a straight line for precise control, the thick bristles resist caking from mud and sediments. Includes a braided lanyard. 9″ long.

Archaeological Brush	1 oz.	**53180**	**$6.50**

Leaf and Square
7906

These medium-sized archaeology tools fill the void between larger tools like trowels and smaller tools such as dental instruments. The tools are ideal for precise, detailed work even in tight spaces. Hand-forged from stainless steel, the tools feature leaf- and square-shaped ends with thin, sharpened edges. The rustproof tools are lightweight and easy to grasp.

Small Leaf and Square Tool

Features blades parallel to the handle for use in more delicate work. **Dimensions:** Ends, 11/16″W x 1.2″L x 1/16″ Thick; Handle, 1/4″ Diameter; Overall, 8″L.

Small Leaf and Square Tool	3 oz.	**53176**	**$12.95**

Large Leaf and Square Tool

Features long blades that angle away from the handle to move more soil and provide leverage when removing wedged-in stones or dislodging thin roots. Ends, 1″W x 2-7/8″L x 1/16″ Thick; Handle, 1/4″ Diameter; Overall, 11″L.

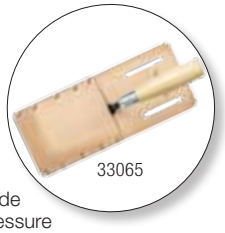
Large Leaf and Square Tool	2 oz.	**53175**	**$12.95**

Ingalls Co. Archaeological Hand Picks
3160

High quality, stain-resistant steel alloy. Heat treated to hold an edge. Pick-head radius makes cutting vertical balk walls easier.

Expedition Pick — for long term use. 12″ x 5-1/8″ x 1-9/16″	8 oz.	**33456**	**$67.50**
Earthmover Pick — for clearing away large quantities of dirt. 12″ x 5-1/8″ x 2-5/32″	10 oz.	**33457**	**$78.95**

Marshalltown® Trowels
3159



Forged from one piece of the highest grade trowel steel, then tempered, ground, and polished to provide lasting service. Hardwood handle. The Heavy Duty Trowels feature a thicker blade to easily withstand the intense pressure of scraping and cutting.

Leather Sheath; fits all our Marshalltown Trowels	4 oz.	**33065**	**$8.95**

	Margin Trowel 5″ x 2″ blade	Margin Trowel 5″ x 1-1/2″ blade	Pointing Trowel 4-1/2″ x 2-1/2″ blade	Pointing Trowel 4-1/2″ x 2-1/4″ blade	Pointing Trowel 4″ x 2″ blade	Pointing Trowel 5″ x 2-1/2″ blade	Weight	Each	6+
Standard	**53719**		**53717**			**53718**	5 oz.	**$14.95**	**$13.35**
Heavy Duty		**53695**		**53696**		**53689**	5 oz.	**$14.95**	**$13.35**
London Style					**53685**		4 oz.	**$14.95**	**$13.35**

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Hardwood Excavation Tool
7584

Ideal for excavation and restoration, this is the perfect addition to the toolbox of any field archaeologist! The durable hardwood tool won't scratch sensitive artifacts and objects (such as ceramic vessels), and it is not susceptible to environmental damage. The tool features pointed and spatula-shaped ends for added versatility and can be re-sharpened using fine sandpaper. **Dimensions:** Overall, 8.5″L x 1/4″ dia.; Spatula end, 3/8″W.

Hardwood Excavation Tool	1 oz.	**53166**	**$10.50**

U-Dig-It Shovel™
6447

Durable, compact, lightweight and rustproof!

Handle easily folds and unfolds with one hand. Includes leather attach-to-belt carrying case. 2-1/4″W x 8-3/4″H (open), 4-1/2″ closed.

U-Dig-It Shovel	7 oz.	**33459**	**$19.25**
		3+	**$18.25**

Lesche™ Digging Tool
6563

Ideal for metal detecting, camping, landscaping and nursery use.

This handy tool can cut through roots and dig through any type of ground. Belt holder included. 7″ x 1-3/4″ blade.

Lesche Digging Tool	1 lb.	**33488**	**$41.50**

Forestry Suppliers Archaeology Field Kit
7608

Dig into the world of archaeology with this field kit! Includes an archaeology field notebook, an engineer's bag, 11 chaining pins (steel arrows), an archaeological north arrow, one pair of safety glasses, a paint brush, a hand pick, a fiberglass folding ruler, a heavy duty trowel, a centimeter photographic scale, a line and surface level, and 500′ of nylon mason line.

Forestry Suppliers' Archaeology Field Kit	10 lbs.	**53100**	**$186.25**
		6+	**$176.25**

Fisher® Pro-Tech Metal Detector
www.forestry-suppliers.com

Forestry Suppliers Photo Board and Scales
2804

This two-sided photo board features magnet-receptive rubber on both sides for use with the included magnet-backed scales (20 cm and 30 cm) and two sheets of letters and numbers. An adjustable stand allows for easy setup on various types of terrain. Rugged carrying case included.

Forestry Suppliers Photo Board and Scales	M	6 lbs.	**53416**	**$161.95**
Replacement Magnetic Metric Photo Scale	M	2 oz.	**53417**	**$19.95**
New! Replacement Magnetic Letter and Number Set, Pack of two magnetic sheets		8 oz.	**53418**	**$44.95**

M Metric

Heavyweight Mini Pick
2933

Made in USA

Ideal for planting or weeding even in compacted soil, this mini pick features a heat-treated alloy steel blade that withstands rough use. Made in USA. **Pointed End:** 6″L. **Flat End:** 6-1/2″L x 2-3/8″W. **Overall Length:** 14-3/4″.

Heavyweight Mini Pick	2 lbs.	**33363**	**$39.95**

Paint Brush
6442

Nylon bristle with wood handle. 4″W.

Paint Brush	4 oz.	**57116**	**$3.75**

Ice Pick
3156

Heavy-duty blade, 6″ long. Wood handle.

Ice Pick	3 oz.	**53798**	**$3.50**

Whisk Broom
3157

Use to clean your field samples!

Made of corn and bear grass.

Height: 12″. **Width:** 8.5″. **Thickness:** 1.5″.

Whisk Broom	8 oz.	**57811**	**$5.95**

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New! X-Rite ColorChecker® Chart

4990

This array of 24 scientifically prepared natural object, chromatic, primary, and gray scale color squares provides a known reference for accurate color reproduction. Each color square reflects light the same way as its real-life counterpart in all portions of the visible spectrum, under any illumination, and with any color reproduction process. Using the chart, you can create a white balance with your digital camera to ensure precise, uniform, neutral white in any lighting condition. The chart also enables you to easily compare digital reproductions to real-life scenes or test targets as well as measure and analyze color reproduction differences in any color rendition system.

ColorChecker Classic Chart Measures 8.25″ x 11″.	5 oz.	**77226**	**$84.95**
		3+	**$79.95**
ColorChecker Mini Chart Measures 2.25″ x 3.25″.	1 oz.	**77228**	**$87.75**
		3+	**$81.50**
ColorChecker Extra Mini Chart Measures 1″ x 1.5″.	1 oz.	**77229**	**$160.00**
		3+	**$149.95**

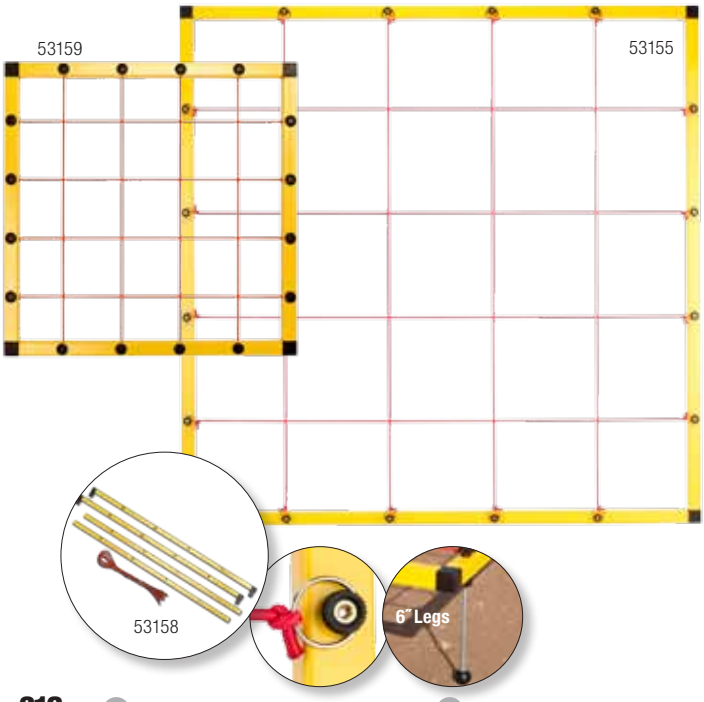
Archaeological Sifting Screens

8074

Three sizes and styles to meet your individual needs!

Constructed of quality materials, these sifting screens feature sturdy white pine wood frames and are built for ease of use in the field. The small hand sifting screen features built-in handles and provides a 12″ x 14″ sifting area. The medium size hanging sifting screen features a 22″ x 28″ sifting area and is designed to be hung from an overhead stand (not included) using four reinforced eyebolts. The large rocking sifting screen has a 22″ x 30″ sifting area and two legs which provide a pivot point at the far end of the box. All three models feature 1/4″ wire mesh screens. No assembly required.

Small Sifting Screen		3 lbs.	**53634**	**$56.95**
			3+	**$53.00**
Medium Hanging Sifting Screen	O	9 lbs.	**53678**	**$98.90**
Large Sifting Screen	O	16 lbs.	**53677**	**$132.25**
Tripod for Medium Hanging Sifting Screen Only, Measures approximately 8′ high. Storage bag and suspension chains included.		18 lbs.	**53614**	**$279.95**



Archaeological Provenience Drawing Squares

3163

Designed for use in metric archaeological excavation units.

These drawing squares allow you to cut plan view drawing time of features and floor anomalies in half! Lightweight and durable powder-coated aluminum frame is segmented with elastic cord.

1/2 Meter Collapsible Provenience Drawing Square

Compact and collapsible, this half meter by half meter square features 10 cm segments.

1/2 Meter Collapsible Provenience Drawing Square	M	2 lbs.	**53159**	**$124.95**

1 Meter Collapsible Provenience Drawing Square

1 Meter collapsible scale with 20 cm segments. Designed to be compact but is quickly and easily assembled when needed.

1 Meter Collapsible Provenience Drawing Square	M	5 lbs.	**53155**	**$134.95**

1 Meter Collapsible Deluxe Provenience Drawing Square

1 Meter collapsible scale can be configured in either 10 cm or 20 cm segments by simply adding or subtracting elastic shock cords. This versatile square allows you to make drawings more or less detailed depending on the size of the feature you're recording. Includes a set of 6″ adjustable legs that lift the scale off the ground and away from artifacts.

1 Meter Collapsible Deluxe Provenience Drawing Square	M	6 lbs.	**53158**	**$179.95**

M Metric
O Ships at Oversize rate. See Shipping Information for details.

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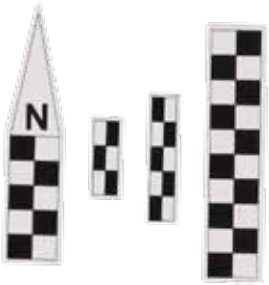


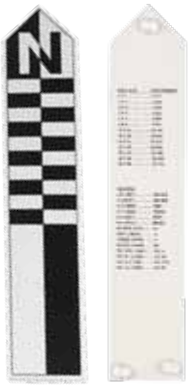
Mini North Arrow and Scale Set

Made in USA

7640

This centimeter photographic scale set with Mini North Arrow is designed for several different up-close photo situations within the field of archaeology. Includes a 10 cm scale, a 5 cm scale, a 3 cm scale, and a mini North Arrow that is 10 cm long with a 5 cm scale at its base.

Mini North Arrow and Scale Set	M	1 oz.	**53147**	**$22.95**



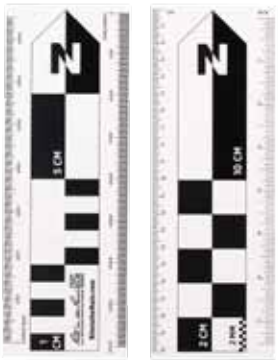
Archaeological North Arrow

Made in USA

3162

Use this north arrow in photographs to show both orientation as well as metric scale (10 cm, 10 one cm and 1 five cm) in unit excavations. Made of 2″ x 1/8″ fiberglass, with hypotenuse and metric/standard conversions silk-screened on opposite side. **Length:** 10″.

Archaeological North Arrow	M	4 oz.	**53151**	**$21.95**
		10+		**$20.90**



New! North Arrow Photo Scale

Made in USA

4872

This economical north arrow shows the orientation of your photographs and reference size using the metric scales (1 cm, 5 cm on front and 2 cm, 2 mm, 10 cm on back). An inch and centimeter ruler run the length of the front side while the back provides a convenient 1:62,500 and 1:24,000 map scale. Low sheen construction ensures less glare so that your finds are successfully recorded. The pencil-friendly surface can easily be erased after tagging your data. Ideal for archaeologists, geologists and paleontologists or anyone recording photo data in the field. Length is 7.5″/20cm. Made in the USA.

North Arrow Photo Scale		1 oz.	**53139**	**$3.95**
		10+		**$3.65**

Made in USA

Forestry Suppliers Complete Scale Set with Carry Bag

7639

This metric photographic scale set features 7 scales for providing the professional archaeologist with several options when photographing in the field - from large items down to some of the smallest artifacts. Set includes a meter scale, a half meter scale, a North Arrow, and a Mini North Arrow and Scale Set (10 cm scale, 5 cm scale, 3 cm scale and mini North Arrow in a nylon stuff bag). Complete in Cordura® carry bag with shoulder strap. Scales are made of PVC.

Forestry Suppliers Complete Scale Set with Carry Bag	M	3 lbs.	**53148**	**$109.95**

Archaeological Meter Scale

Made in USA

3161

Designed for photographing larger features and metric excavation units, this scale is set up in decimeter increments and can be separated into 5 individual 20cm sections for convenient storage and transportation. Constructed of 1/2″ black and white PVC rod with a threaded steel core. Can be used in conjunction with the North Arrow (sold separately).

Archaeological Meter Scale	M	1 lb.	**53153**	**$49.95**

Centimeter Photographic Scale

Made in USA

8561

Constructed of 1/2″ black and white PVC rod, this metric scale can be used in several different configurations by simply separating the magnets that hold the scale together. The scale can be separated to go from a two decimeter and 10 centimeter scale to as small as five centimeters for up close photography.

Centimeter Photographic Scale	M	3 oz.	**53156**	**$29.50**

M Metric

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New! Plano® StowAway® Model 3700 Utility Boxes
4878

These utility boxes feature an advanced ProLatch locking system that ensures gear stays put, even if tossed around in transit or in use. Available in two sizes.

Plano StowAway Model 3700 Classic Utility Box, Standard, Features 4-24 adjustable compartments. Dimensions: 14″L x 9.13″ x 1.875″H.		
15 oz.	**34418**	**$7.25**
	4+	**$6.50**
Plano StowAway Model 3700 Classic Utility Box, Deep, Features 4-15 adjustable compartments. Dimensions: 14″L x 9.13″W x 3.25″H.		
2 lbs.	**34419**	**$8.25**
	3+	**$7.50**

New! Plano® StowAway® Model 3600 Utility Boxes
4878

These utility boxes ensure that contents are protected. Features include an advanced ProLatch locking system which offers added security to ensure gear stays put, even if tossed around in transit or in use. Available in two sizes.

Plano StowAway Model 3600 Utility Box, Standard, Features 6-21 adjustable compartments. Dimensions: 11″L x 7.25″W x 1.75″H.		
11 oz.	**34420**	**$5.25**
	6+	**$4.75**
Plano StowAway Model 3600 Utility Box, Deep, Features 4-9 deep adjustable compartments. Dimensions: 11″L x 7.25″W x 2.75″H.		
12 oz.	**34421**	**$5.95**
	6+	**$5.60**

New! Plano Guide Series Waterproof StowAway 3700
4877

This waterproof StowAway provides ample protection of tools and small parts against the elements at an affordable price. Features include a Dri-Loc O-ring seal, three tight sealing cam action latches, and 4-23 adjustable compartments. **Dimensions:** 14″ x 9″ x 1.875″.

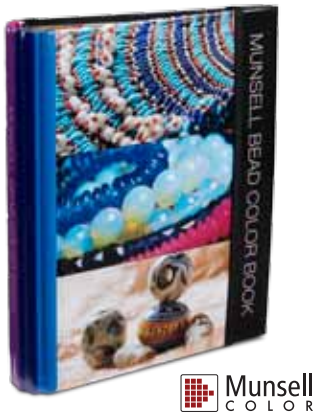
Plano Guide Series Waterproof StowAway 3700		
1 lb.	**34416**	**$10.50**
	3+	**$9.75**

New! Plano Guide Series Deep Waterproof StowAway 3700
4877

This deep waterproof StowAway provides ample protection of tools and small parts against the elements at an affordable price. Features include a Dri-Loc O-ring seal, three tight sealing cam action latches, and 1-4 adjustable compartments. **Dimensions:** 14″ x 9″ x 2.875″.

Plano Guide Series Deep Waterproof StowAway 3700		
1 lb.	**34417**	**$12.25**
	3+	**$11.25**

Fisher® Pro-Arc Metal Detector Kit
forestry-suppliers.com



Munsell® Bead Color Book
7984

Ideal for analyzing beads in the field, this book includes 176 Munsell Color standards to aid in reliable, consistent classification of bead colors. The set of color charts enables you to precisely name and compare bead colors from various archaeological sites or beaded objects. Bead color is a valuable tool in determining the region of the world that a bead is from and the types of materials used in producing the bead. **Page Dimensions:** 4.4″ x 7.25″. **Binder Dimensions:** 6″ x 8″ x 1.625″.

Munsell Bead Color Book		
12 oz.	**77329**	**$170.00**

Archaeology Field Notebook
7231

Ideal for field archaeology students and professionals, this notebook features a metric grid layout (mm) and centimeter scales on the edges of the inside front and back covers. 80 Sheets of acid-free paper. Measures 10″ x 7-5/8″.

Archaeology Field Notebook		
8 oz.	**49240**	**$11.75**
	10+	**$9.95**

Riker Mounts
5276

For mounting specimens without pins. Soft white cotton filling holds insect, plant, or mineral specimen against glass top. 3/4″ Deep.

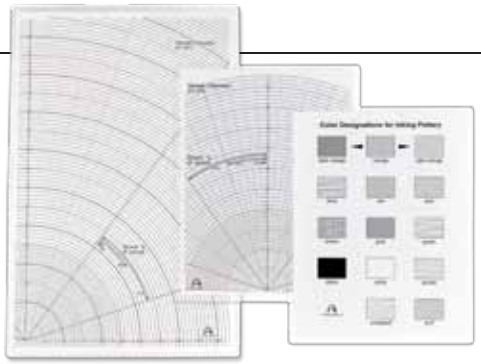
5″ x 6″		
7 oz.	**53742**	**$5.95**
	12+	**$4.95**
8″ x 12″		
1 lb.	**53743**	**$9.20**
	12+	**$7.90**
12″ x 16″		
2 lbs.	**53753**	**$13.25**
	12+	**$11.25**

String-A-Pit
7586

Set up standardized test pits easily with the compact, pre-measured String-A-Pit. Designed to self-secure with an attached rubber band, the String-A-Pit fits easily in the palm of your hand and eliminates the need for tape measures in setting up test pits. The various size options are indicated with colored beads. Constructed of durable plastic cord.

1m String-A-Pit – Sets up test pits measuring 1m x 1m and 2m x 2m		
1 oz.	**53170**	**$12.50**

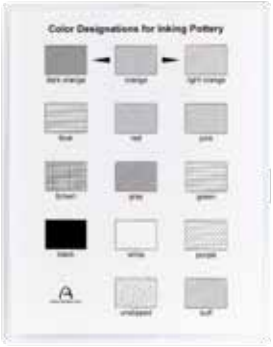
[search engine powered by magazooms.com]



Guide for Estimating Vessel Diameters
7585

A useful guide for archaeologists and students when analyzing ceramics to estimate rim diameter. Pie-shaped divisions indicate what percentage of the original vessel's rim is represented by a rim sherd. The small laminated chart measures 8-1/2″ x 11″; the large laminated chart is 11″ x 17″.

Guide for Estimating Vessel Diameters, Small, Graduated in cm	M	2 oz.	**53168**	**$7.50**
Guide for Estimating Vessel Diameters, Large, Graduated in cm	M	3 oz.	**53172**	**$9.50**
Guide for Estimating Vessel Diameters, Small, Graduated in inches	E	2 oz.	**53178**	**$7.50**
Guide for Estimating Vessel Diameters, Large, Graduated in inches	E	3 oz.	**53179**	**$9.50**



Color Designations for Inking Pottery
7585

A valuable resource for archaeologists, draftspeople, and students who analyze and sketch ceramics! This guide indicates how to represent colors on polychrome ceramic vessels in black-and-white drawings and truly sets a standard for inking pottery. The hatching patterns follow the conventions used in the Maya area and are based on Robert E. Smith 1955 (Uaxactun) and T. Patrick Culbert 1993 (Tikal) with the addition of blue, pink, and green after Francoise Bagot 1997. The laminated chart measures 8-1/2″ x 11″.

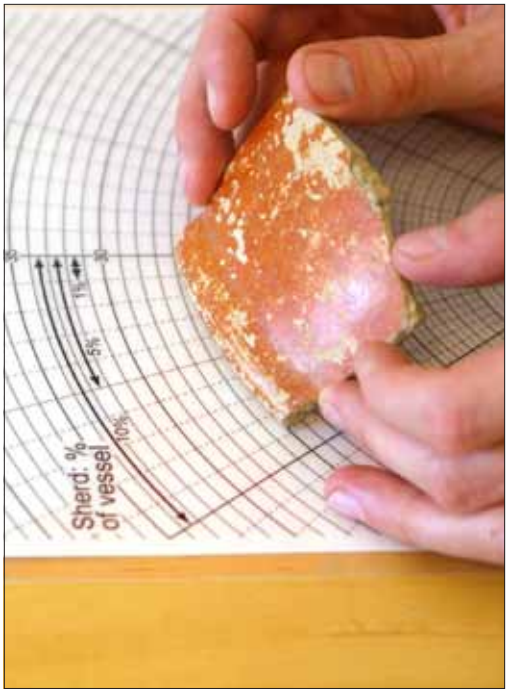
Color Designations for Inking Pottery	2 oz.	**53167**	**$7.50**

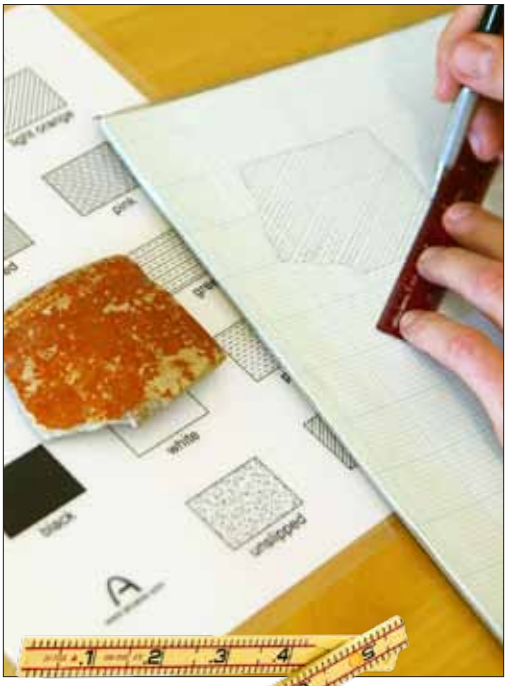
Rhino Rulers™ Fiberglass Folding Rulers
3674

These heavy duty, waterproof rulers are designed to withstand extreme weather conditions. Flexible and washable, the durable rulers are built to outlast traditional wood rulers. Graduations are engraved into the fiberglass to resist scratching.

6′ Carpenter's Ruler with 16ths and inches on both sides	E	7 oz.	**71108**	**$18.35**
			6+	**$16.35**
6′ Engineer's Ruler with 10ths and 100ths one side, inches and 8ths other side	E	7 oz.	**71109**	**$19.95**
			6+	**$17.95**
2m Metric/English Ruler with mm one side, 8ths and inches other side	C	5 oz.	**71112**	**$19.95**
			6+	**$17.95**

M Metric
E English
C Combination English and Metric





Chaining Pins (Steel Arrows)
5771

Hardened round steel, painted red and white. 7/32″ Dia., 14″L. Set of 11 pins.

Chaining Pins (Steel Arrows) 2 lbs.	**39167**	**$21.50**
	4+	**$19.95**
Chaining Pin Carrier 6 oz.	**39272**	**$13.75**
	4+	**$11.75**
SECO Chaining Pin Quiver 3 oz.	**39275**	**$10.95**

Leather Quiver for Chaining Pins
5773

Made of formed leather. Side-stitched and riveted at strain points. 13″L with 1-1/2″W belt loop.

Leather Quiver for Chaining Pins 5 oz.	**39170**	**$21.50**
	4+	**$19.25**

KESON
MAKE YOUR MARK

Line & Surface Level
4170

This durable line & surface level features a sturdy, aluminum body. Color may vary.

Line & Surface Level 1 oz.	**43778**	**$3.35**
Nylon Mason Line, 500′ 9 oz.	**83290**	**$5.95**
	24+	**$4.95**

Keson® Measuring Tapes page 538

[search engine powered by magazooms.com]

LaMotte

1

2

3

4

1 tube offers a minimum detection of 20 cells/100 ml sample. 5 tubes (full kit) offer a minimum detection of 2 cells/100 ml sample.

1 LaMotte® Water Quality Monitoring Outfit

6583

Includes informative handbook and CD-ROM!

This outfit stresses the importance of using analytical methods and encourages proper field investigation techniques by use of representative sampling, careful observation, accurate record keeping, and systematic measurement to plot changing conditions. **Outfit contains seven basic water quality test factors including:** pH, nitrate-nitrogen, phosphate, dissolved oxygen, alkalinity (total), turbidity, and temperature. Each test module includes the necessary apparatus and reagents to perform 50 tests and also includes complete instructions. Individual modules allow teams of students to perform water quality analyses at the same time at one or more testing sites. Outfit housed in a sturdy, rugged field carrying case. Also included is The Monitor's Handbook, a 64-page reference guide for water quality analysis in natural aquatic systems, and The Water Quality Educator CD-ROM (for PC or Mac), an interactive CD which offers step-by-step instructions for water quality test procedures.

Water Quality Monitoring Outfit	A	12 lbs.	**76927**	**$389.00**
			2+	**$364.00**

2 LaMotte® Water Pollution Detection Kit

3324

Designed for examining water quality in known or suspected polluted aquatic environments, this kit includes individual test modules and all necessary apparatus for seven key test factors. Includes titration tests for dissolved oxygen only (range, 0 to 10.0 ppm; 50 tests) and colorimetric tests for the following: chlorine (range, 0.2 to 3.0 ppm; 50 tests), pH (range, 3 to 10.5; 100 tests), nitrate-nitrogen (range, 0.2 to 1.0 ppm; 40 tests), phosphate (range, 0.2 to 1.0 ppm; 50 tests), ammonia-nitrogen (range, 1.0 to 8.0 ppm; 50 tests), and temperature (range, -5°C to 45°C). The kit also includes three handbooks: A Study of Water Quality, Our Environment Battles Water Pollution, and Investigating Water Problems. A field-friendly tote allows for convenient storage and transport.

LaMotte Water Pollution Detection Kit	A	13 lbs.	**77120**	**$399.00**

3 LaMotte® Shallow Water Test Kit

3323

For use where Secchi disc readings are not feasible.

Turbidity is measured by direct comparison of sample water to turbidity standards selected to match formazin standards. Also allows you to accurately test for dissolved oxygen, temperature, pH, and turbidity. Measures dissolved oxygen from 0 to 10 ppm; readable to 0.1 ppm. Thermometer measures temperature from -5°C to +45°C in 0.5° increments. Two octet comparators are used to measure pH from 3.0 to 10.5 in 0.5 increments.

Shallow Water Test Kit	I	7 lbs.	**76612**	**$253.95**

4 LaMotte® Coliform Test Kit

3325

No incubation equipment required. Highly portable, no accessory labware required. Ideal test for well water and coliform breakthrough in distribution systems. Results compare favorably to five-tube MPN method. Includes five glass tubes marked at 10 ml level and containing one Coliform Test Tablet. Sterile water sampling bag with dechlorinating tablet is included for chlorine removal. Performs one test only. Results in 40 to 48 hours (24 hours if warm). One tube offers a minimum detection of 20 cells/100 ml sample. Five tubes (full kit) offer a minimum detection of 2 cells/100 ml sample.

Coliform Test Kit		7 oz.	**77412**	**$15.10**
			12+	**$14.55**

A Extra Charge if Shipped by Air. See Shipping Information for details.
I Extra Charge if Shipped by International Air. See Shipping Information for details.

[search engine powered by magazooms.com]

1 LaMotte® Limnology Water Test Set
3329

Tests for dissolved oxygen, combination nitrate-phosphate, wide range pH, silica, calcium-magnesium, total hardness, carbon dioxide. Includes 40 Nitrate tests and 50 of the others. Various components for the chemical tests are housed in six individual cases which can be distributed to teams of students on field trips. Sampling bottles and analysis report forms are included. All items are mounted in a rugged, waterproof carrying case.

Model AM-02	A	13 lbs.	**77167**	**$473.50**
Refill Unit for all chemical reagents	A	4 lbs.	**77168**	**$165.75**

2 LaMotte® Aquaculture Test Kit
3331

A complete test kit for pond fish culture!

Ideal for fresh water analysis. Allows you to make nine critical test factors efficiently and accurately in the field. Unit is supplied complete with labware, accessories, sampling bottle, and reagents for 50 tests of each factor.

AQ-2 Test Kit (Metric)	A	9 lbs.	**76320**	**$248.95**
Reagent Refill	A	5 lbs.	**76321**	**$158.25**
Replacement Titrator, 0-200		1 oz.	**76994**	**$6.20**
Replacement Titrator, 0-10		1 oz.	**76995**	**$6.20**

Octa-Slide Comparator Tests	Range
Ammonia Nitrogen	0.2, 0.4, 0.6, 0.8, 1.0, 1.5, 2.0, 3.0 ppm
Nitrite Nitrogen	0.05, 0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.8 ppm
pH	5.0, 5.5, 6.0, 6.5, 7.0, 7.5, 8.0, 8.5
Direct Reading Titrator	**Range/Sensitivity**
Alkalinity	0 to 200 ppm/4.0 ppm
Carbon Dioxide	0 to 50 ppm/1.0 ppm
Chloride	0 to 200 ppm/4.0 ppm
Dissolved Oxygen	0 to 10 ppm/0.2 ppm
Hardness Total as $CaCO_3$	0 to 200 ppm/4.0 ppm
Temperature	**Range/Sensitivity**
Armored Thermometer	-5°C to +45°C/0.5°C

3 LaMotte® Salt Water Test Kit
3330

Provides equipment to monitor nine parameters including ammonia nitrogen, nitrate nitrogen, nitrite nitrogen, pH, alkalinity, carbon dioxide, dissolved oxygen, salinity, and temperature. Reagents, labware, and accessories are mounted in ethafoam for convenient test selection and portability. Short form lid instructions are available for quick reference, and a long form booklet provides detailed instructions with kit diagram. Supplied complete with labware, accessories, sampling bottles, and reagents for 50 tests.

Salt Water Test Kit	A	10 lbs.	**76318**	**$318.00**
Refill for Salt Water Test Kit	A	4 lbs.	**76319**	**$171.50**

CHEMets® Water Test Kits
3328

Self-filling ampoules for testing dissolved oxygen, nitrate, and phosphate contents of water.

Designed for low-to-medium-range colorimetric analysis, each kit includes 30 prescored ampoules filled with reagents sealed under vacuum, color comparators, a snap cup, and instructions to perform 30 tests.

Dissolved Oxygen

Results are expressed as ppm O_2. **Range:** 1 to 12 ppm. **Increments:** 1, 2, 3, 4, 5, 6, 8, 10, 12 ppm. **Analysis time:** 2 min.

Dissolved Oxygen Test Kit, 30 Tests	1 lb.	**78052**	**$50.25**
Dissolved Oxygen Refill, 30 Tests	5 oz.	**78053**	**$25.25**

Nitrate Nitrogen

Results are expressed as ppm NO_3-N. **Range:** 0 to 30 ppm. **Increments:** 0, 4, 6, 8, 10, 12, 15, 20, 30 ppm. **Analysis time:** 11 min.

Nitrate Test Kit, 30 Tests	1 lb.	**78054**	**$64.50**
Nitrate Refill, 30 Tests	6 oz.	**78055**	**$34.95**

Phosphate

Results are expressed as ppm PO_4. **Range:** 0 to 1 ppm & 1 to 10 ppm. **Increments:** 0, 0.1, 0.2, 0.3, 0.4, 0.6, 0.8, 1.0 ppm and 1, 2, 3, 4, 5, 6, 7, 8, 10 ppm. **Analysis time:** 5 min.

Phosphate Test Kit, 30 Tests	1 lb.	**78056**	**$58.80**
Phosphate Refill, 30 Tests	5 oz.	**78057**	**$23.95**

A Extra Charge if Shipped by Air. See Shipping Information for details.

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LaMotte

LaMotte Environmental Test Kits

3327

Lightweight, compact kits for research and study of special elements, compounds or conditions.

Innovations in comparator methods permit the detection of extremely low levels of many water factors that previously could not be detected colorimetrically. Each outfit includes the necessary test reagents, glassware, accessories and full instructions for conducting the chemical analysis covered by the kit. Refill reagents and replacement parts are available for all units – call for details. Each set is furnished in a carrying case.

LaMotte® Environmental Test Kits

Test Parameter	Test System	Range/Sensitivity	No. Tests (No. Reagents)		Weight	SN	$
Alkalinity (WAT-DR)*	Direct reading titration method for total alkalinity, in terms of $CaCO_3$	0-200 ppm/4 ppm as $CaCO_3$	50 at 0-200 ppm (2)		13 oz.	**77125**	**$37.50**
Reagent Refill for 77125					4 oz.	**77129**	**$17.25**
Alkalinity (WAT-MP-DR)	Phenolphthalein (P) and Total (T) Alkalinity, Direct Reading Titrator	0-200 ppm/4 ppm as $CaCO_3$	50 at 0-200 ppm (3)		14 oz.	**77145**	**$56.70**
Alkalinity Kit Reagent Refill					6 oz.	**77144**	**$26.50**
Chloride (PSC-DR)	Direct Reading Titrator	0-200 ppm/ 4 ppm Cl- 0-20.000 ppm/400 ppm Cl-	50 @ 0-200 ppm (4)		15 oz.	**77148**	**$49.95**
Chloride Kit Reagent Refill					6 oz.	**77133**	**$28.60**
Chlorine (Model LP-26)	DPD Tablet, Octet Comparator Combined Chlorine by Calculation	0.2ppm – 3.0 ppm 0.2, 0.4, 0.6, 0.8, 1.0, 1.5, 2.0, and 3.0 ppm	50 (2)		11 oz.	**77100**	**$69.20**
Chlorine Kit Reagent Refill					2 oz.	**77099**	**$16.80**
Oxygen, Dissolved (All Liquid Reagents)	Direct Reading Titrator	0-10 ppm/0.2 ppm O_2	50 @ 10 ppm (5)	I	2 lbs.	**77191**	**$55.40**
Dissolved Oxygen Kit All Liquid Reagent Refill				I	1 lb.	**77195**	**$32.75**
Hardness (PHT-CM)	Calcium, Magnesium and Total Hardness, Direct Reading Titrator	0-200 ppm $CaCO_3$	50 @ 200 ppm (5)		15 oz.	**77154**	**$63.70**
Hardness Kit Reagent Refill					6 oz.	**77119**	**$35.50**
Iron (P61)	Bipyridal Octet Comparator	0.5 ppm – 10.0 ppm 0.5, 1.0, 2.0, 3.0, 4.0, 6.0, 8.0, 10.0 ppm	90 (2)		14 oz.	**77155**	**$64.50**
Iron Kit Reagent Refill					3 oz.	**77106**	**$21.60**
Nitrate-Nitrogen (NCL)*	Cadmium Reduction, Octet Comparator, Axial Reaction	0, 0.2, 0.4, 0.6, 0.8, 1.0 ppm	40 (2)	I	2 lbs.	**77050**	**$87.50**
Nitrate-Nitrogen Kit Reagent Refill				I	13 oz.	**77051**	**$34.25**
Nitrate-Nitrogen (Model NCR)	A.P.H.A. Cadmium Reduction, Octet Comparator	0.25 ppm – 10.0 ppm 0.25, 0.5, 1.0, 2.0, 4.0, 6.0, 8.0, 10.0 ppm	40 (2)	I	1 lb.	**77101**	**$80.50**
Nitrate-Nitrogen Kit Reagent Refill				I	8 oz.	**77094**	**$31.45**
Phosphate (VM-12)	Stannous Chloride, Octet Comparator	Low:1.0 ppm to 10.0 ppm 1.0, 2.0, 3.0, 4.0, 5.0, 6.0, 8.0, 10.0 ppm, High: 10 ppm to 100 ppm 10, 20, 30, 40, 50, 60, 80, 100 ppm	50 (2)	A	1 lb.	**77159**	**$101.50**
Phospate Kit Reagent Refill				A	5 oz.	**77093**	**$15.75**
pH (P-3100)	Wide Range	3.0 – 10.5 pH units 3.0, 3.5, 4.0, 4.5, 5.0, 5.5, 6.0, 6.5, 7.0, 7.5, 8.0, 8.5, 9.0, 9.5, 10.0, 10.5	100 (1)		1 lb.	**77150**	**$41.50**
pH Kit Reagent Refill				I	2 oz.	**77085**	**$6.75**
Salinity (POL-H)	Direct Reading Titrator	0-20 ppt (0.4 ppt interval)	50 @ 20 ppt (3)		15 oz.	**77161**	**$67.40**
Salinity Kit Reagent Refill					6 oz.	**77074**	**$40.75**
Turbidity (TTM)	Drop Count	5 JTU – 100 JTU/5 JTU, 10 JTU – 100 JTU/10 JTU	50 @ 10 to 20 JTU (1)		1 lb.	**77164**	**$71.75**
Turbidity Kit Reagent Refill					3 oz.	**77058**	**$12.25**
Replacements							
Replacement Titrator		0-10			1 oz.	**76995**	**$6.20**
		0-200			1 oz.	**76994**	**$6.20**

*Meets GLOBE Specifications

LaMotte

LaMotte TesTab® Reagent Test Kits for Nitrate/Nitrogen & Ammonia/Nitrogen

3332

Replacing traditional liquid reagents with pre-measured tablet reagents simplifies and speeds up the testing process. Each kit includes easy-to-handle plastic test tubes with spill-proof caps and tablets for 50 tests.

Ammonia-Nitrogen

This all-plastic ColoRuler kit uses the salicylate method, eliminating the use of mercury compounds. Tablet reagents can be used in fresh or salt water. ColoRuler color comparator included. **Range:** 0 to 4.0 ppm. **Increments:** 0, 0.25, 0.5, 1.0, 2.0, 4.0 ppm.

Ammonia-Nitrogen Kit	10 oz.	**76623**	**$65.75**

Nitrate-Nitrogen

This tablet test kit measures nitrate-nitrogen in a third of the time required by other nitrate kits. Tablets eliminate the use of cadmium. Octa-Slide color comparator included. **Range:** 0 to 15 ppm. **Increments:** 0, 1, 2, 4, 6, 8, 10, 15 ppm.

Nitrate-Nitrogen Kit	12 oz.	**76622**	**$57.95**

A Extra Charge if Shipped by Air. See Shipping Information for details.
I Extra Charge if Shipped by International Air. See Shipping Information for details.

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Coliscan Water Monitoring Kits
3786

With a patented combination of color-producing chemicals and nutrients, Coliscan allows for easy visual identification of coliforms and E. coli in water. When a water sample is added to the Coliscan medium, coliform bacteria grow as pink-magenta colonies, and E. coli grow as purple-blue colonies. Other bacteria usually grow as non-colored colonies. Two kits available to meet different testing needs.

Coliscan Water Monitoring Kit

Ideal for sample sizes of 1 to 5 ml, this method uses Coliscan Easygel to test river water or other samples which have a sizable population of coliforms and/or E. coli. Just add the water sample (up to 5 ml) directly to the bottle of Coliscan Easygel, swirl, pour into a pre-treated Easygel petri dish, and incubate to obtain results. Kit includes 10 Coliscan Easygel bottles, 10 pre-treated Easygel petri dishes, 10 1 ml droppers, 10 sterile 30 ml collection bottles, and instructions. Performs 10 tests.

Coliscan Water Monitoring Kit	2 lbs.	**77038**	**$37.25**

Coliscan-MF Water Monitoring Kit

This kit uses membrane filters to test larger samples of any filterable liquid, in particular potable water or treated wastewater which contains low levels of coliforms or E. coli. As the water sample is filtered through the membrane filter, bacteria collect on the surface of the filter. The filter is then placed on a pad saturated with Coliscan-MF liquid medium in a petri dish. As the colonies grow, they can be counted. Included in the kit are 2 Coliscan-MF 20 mL bottles, 20 membrane filters, 20 petri dishes with pads, 20 3 mL droppers, 5 filter pad units, 1 filter apparatus, 1 syringe with hose, and instructions.

Coliscan-MF Water Monitoring Kit	2 lbs.	**77039**	**$90.75**

Refill Kit for 77039 – Includes 2 Coliscan-MF 20 mL bottles, 20 membrane filters, 20 petri dishes with pads, 20 3 mL droppers, and 5 filter unit pads.

	1 lb.	**77040**	**$75.25**

Eco-Check™ 5-in-1 Test Strips
3762

Test for pH, total alkalinity, total hardness, nitrate, and nitrite using just one strip!

Eco-Check provides easy one-dip testing of freshwater with no powders, liquids, or tablets to measure. Each strip is precisely impregnated with the chemistries needed to test for pH, total alkalinity, total hardness, nitrate, and nitrite. To use, just dip one test strip into water for 2 seconds without motion. Remove the strip, shake once to remove excess water, and wait 25 seconds. At 1 minute, match the strip to the closest colors to obtain individual results for pH, total alkalinity, total hardness, nitrate, and nitrite. Bottle of 25 test strips.

Range: pH, 5.5 to 9.5; total alkalinity, 0 to 720 ppm; total hardness, 0 to 1,000 ppm; nitrate, 0 to 200 ppm; nitrite, 0 to 20 ppm. **Sensitivity:** pH, 0.5; total alkalinity, 40 ppm; total hardness, 25 ppm; nitrate, 0.5 ppm; nitrite, 20 ppm. **Recommended range:** pH, 6.5 to 8.0; total alkalinity, 180 ppm; total hardness, 25 to 75 ppm; nitrate, 0 to 20 ppm; nitrite, 0 to 0.5 ppm.

Eco-Check 5-in-1 Test Strips			
2 oz.		**78025**	**$13.95**
	12+		**$11.95**

76273

76274

Portable Salinity and Brix Refractometers
5079

Instant results!

Based on light refraction in liquid, these compact refractometers accurately display percentages of dissolved sugar or salt ppt/specific gravity in liquid. Simply place a few drops of sample liquid on the specially angled lens and peer through the adjustable eyepiece. Results instantly appear along a scale within the eyepiece. No power source required! A rubber-coating eliminates inaccuracies caused by body heat. Calibration tool, full instructions, and protective case included. Choose between a sugar refractometer or a salt refractometer.

Salinity Refractometer (Salt)

This dual scale salt refractometer may be used to determine either the parts per thousand of salt dissolved in water or the specific gravity of salt water. The affordable way to accurately monitor salt content in fisheries, nursery irrigation systems, sea water, etc.

Range: 0 to 100 ppt; 1.000 to 1.070 specific gravity. **Resolution:** 1 ppt; 0.001 specific gravity. **Accuracy:** ±1 ppt; ±0.001 specific gravity. **Temperature compensation:** 10°C to 30°C. **Dimensions:** 7-3/4˝L x 1-1/2˝ dia.

STX-3 Salinity Refractometer			
12 oz.		**76273**	**$108.95**
	3+		**$100.95**

Brix Refractometer (Sugar)

This refractometer is ideal for a variety of quality control applications including monitoring sugar content in fruit, juices, wine, milk, etc. Temperature compensated.

Range: 0 to 32 brix. **Resolution:** 0.2%. **Accuracy:** ±0.2%. **Dimensions:** 6-3/4˝L x 1-1/2˝ dia.

BTX-1 Brix Refractometer			
12 oz.		**76274**	**$108.95**
	3+		**$100.95**

Hydrion™ pH Paper
3353

A simple, fast, precise, and economical method of measuring pH!

Provides clear, definite colors that even your students can read with great accuracy. Kits and papers are available for all your teaching needs.

Brilliant Dispenser

Great for classroom or field use! Using this pH paper, you can determine pH values from 0-13 in 0.5 increments. Convenient dispenser contains two 15´ rolls of paper, one for 0.0 - 6.0 pH ranges and the other for 6.5-13.0 pH ranges. Two color charts are also included. GLOBE Program approved.

pH Paper, Hydrion™			
2 oz.		**78105**	**$10.50**

Dip Stiks

Excellent for general purpose pH testing, this is the ultimate wide range pH paper! It features 14 brilliant, long lasting colors giving instant pH checks over the entire range of 0-13 pH in 1.0 increments. Packed in a clear plastic case with 75 Dip Stiks and one color chart.

Dip Stiks			
2 oz.		**78104**	**$10.25**

WaterSpout I & II 12V DC Purge Pumps page 349

pH Meters page 336

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LaMotte

LaMotte® SMART Water Analysis Laboratory

3317

This complete, portable lab kit measures 24 water quality parameters for pollution detection, environmental studies, and industrial water and wastes. The digital SMART3 Colorimeter analyzes test sample color reactions and provides direct readouts for 15 factors. Two Direct Reading Titrators that provide titration results directly in ppm for six additional factors are also included in the kit. This digital meter features automatic temperature compensation and measures pH with a range of 0-14, and conductivity in three ranges: 0-19.99 µS/cm, 200-1,999 µS/cm, and 2.00-19.99 mS/cm. Also includes 15 reagents and five titrator tests.

SMART Water Analysis Laboratory	A	36 lbs.	**94825**	**$3224.50**

Direct Reading Titrator Tests Included In Kit

Factor	Method	Range	# Tests
Alkalinity	Neutralization	0-200 ppm	50 at 200 ppm
Carbon Dioxide	Neutralization	0-50 ppm	50 at 50 ppm
Chloride/Salinity	Argentometric	0-200 ppm	50 at 200 ppm
Dissolved Oxygen	Azide Modification of Winkler Method	0-10 ppm	50 at 10 ppm
Hardness (Calcium, Magnesium, and Total)	Complexometric	0-200 ppm	50 at 200 ppm

Reagents Included In Lab Kit

Factor	Method	Range	# Tests
Ammonia	Nesslerization	0-3.0 ppm	50
Chlorine	DPD	0-4.0 ppm	100
Bromine	DPD	0-10 ppm	100
Iodine	DPD	0-15 ppm	100
Chromium (Hexavelent)	Diphenylcarbazide	0-1.0 ppm	100
Copper	Diethyldithiocarbamate	0-5.0 ppm	100
Fluoride	SPADNS	0-2.0 ppm	50
Iron	Bipyridyl	0-5.0 ppm	50
Nitrate	Cadmium Reduction	0-3.0 ppm	20
Nitrite	Diazotization/Coupling	0-0.7 ppm	20
Phosphate	Ascorbic Acid Reduction	0-3.0 ppm	50
Silica	Heteropoly Blue	0-4.0 ppm	50
Sulfate	Barium Chloride	0-100 ppm	50
Sulfide	Methylene Blue	0-3.0 ppm	50
Turbidity	Absorption (No Reagents)	7-400 NTU	Unlimited

A Extra Charge if Shipped by Air. See Shipping Information for details.
I Extra Charge if Shipped by International Air. See Shipping Information for details.

LaMotte® SMART Reagents

3316

Reagent	Range ppm	Tests		Weight	SN	$
Bromine	0 – 10 ppm	100		1 lb.	**94823**	**$57.75**
Chlorine	0 – 4.0 ppm	100				
Iodine	0 – 15 ppm	100				
Iron	0 – 6.0 ppm	50	I	7 oz.	**94832**	**$46.95**
Lead	0 – 5.0 ppm	50		3 lbs.	**94848**	**$83.95**
Manganese	0 – 0.9 ppm	50	A	2 lbs.	**94833**	**$63.50**
Mercury	0 – 1.5 ppm	50	A	3 lbs.	**94849**	**$222.50**
Nitrate	0 – 3.0 ppm	20		12 oz.	**94834**	**$47.25**
Nitrite	0 – 0.7 ppm	20		12 oz.	**94835**	**$47.25**
pH	5.0 – 9.5 ppm	100		1 lb.	**94836**	**$53.25**
Phosphate	0 – 3.0 ppm	50	A	9 oz.	**94837**	**$39.90**
Sulfate	0 – 100 ppm	50	I	6 oz.	**94838**	**$30.75**
Sulfide	0 – 3.0 ppm	50	I	1 lb.	**94839**	**$69.25**
Amonia Nitrogen	0 – 1.0 ppm	25	A	2 lbs.	**94840**	**$50.50**
Amonia Nitrogen	0 – 3.0 ppm	50	I	10 oz.	**94841**	**$43.25**
Dissolved Oxygen	0 – 12 ppm	100+	I	1 lb.	**94842**	**$42.25**

LaMotte

LaMotte® SMART3 Colorimeter

3315

Over 75 pre-programmed water analysis factors!

This microprocessor-based, compact colorimeter automatically selects proper wavelengths for performing a variety of water tests. A menu-driven display guides you step-by-step through testing procedures and then displays the results. The multi-LED optical system is embedded in the colorimeter's light chamber and is optimized for use with LaMotte test reagents. Just select the test and then insert the sample with reagent. You can even enter up to 25 tests for analysis of custom reagent systems. Features include a USB port to interface with your PC, a six-button mechanical switch keypad, a self-diagnostics system, a power-saving automatic shut-off function, and factory-set calibration. Six sample tubes, USB cable, USB wall plug, and instruction manual included. Waterproof to IP67.

LaMotte SMART3 Colorimeter	4 lbs.	**94850**	**$958.50**

Range: 0 to 125% T. **Resolution:** 1% FS. **Accuracy:** 2% FS. **Light source:** LED/filter setup at 428nm, 525nm, 568nm, 635nm. **Detector:** Photodiodes. **Display:** 160 x 100 backlit LCD, 20 x 6 line graphics display. **Sample cell:** 25 mm round cell, 10 mm square cuvette, 16 mm COD tubes. **Power:** USB wall charger or Lithium ion rechargeable battery. **Dimensions:** 7.5˝ x 3.5˝ x 2.5˝.

Accessories

Pelican 1400 Case with Foam Insert	5 lbs.	**35715**	**$99.95**
Replacement Vials, Set of 6	4 oz.	**94851**	**$31.25**

SMARTLink CD

Custom software and interface cable used to link the SMART3 Colorimeter.

SMARTLink CD	11 oz.	**94845**	**$71.75**

LaMotte

LaMotte® Monitor's Handbook

3339

Introduces the issues of monitoring streams, rivers, lakes, and estuaries.

Written by the staff of the LaMotte Company. It includes physical, biological, and chemical factors of water quality and the analytical procedures for their measurement. It also describes the basics of waterway surveys, program planning, data analysis, and reporting. 63 Pages.

LaMotte Monitor's Handbook	8 oz.	**76923**	**$17.25**

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YSI® pHotoFlex Colorimeter

4792

Rugged and waterproof, this multiparameter colorimeter is perfect for testing in the laboratory or in the field! Results are shown on a large, backlit LCD display, and the meter can store 100 data sets. The colorimeter features calibration adjustment for selected methods. A flexible, fixed adapter features a flip design that accommodates different cell heights and diameters, and the adapter is securely attached to prevent it from being lost. Includes colorimeter, four 1.5V AA batteries, one 16mm empty cell, two 28mm empty cells, a microfiber cleaning cloth, and a CD-ROM (includes detailed operating manual, photometry analysis manual with analysis specifications, and software to program user-defined methods). Meets IP67 standards. Two-year manufacturer's warranty.

Number of Tests: 85 (35 predefined and 50 user-defined methods). **Memory:** 100 data sets. **PC Connectivity:** RS232. **Power:** Four 1.5V AA batteries (included). **Battery Life:** Approximately 3,000 measurements. **Operating Temperature:** 32°F to 122°F (0 to 50°C). **Storage Temperature:** -13°F to 149°F (-25°C to 65°C). **Dimensions:** 4.6˝H x 3.4˝W x 9.3˝L. **Weight:** 1.3 lbs.

YSI pHotoFlex Colorimeter	3 lbs.	**94925**	**$945.25**

YSI® pHotoFlex Colorimeter Reagents

Aluminum, Model Al-1 TP, Powder pack reagent set with 25 ml ECR masking liquid reagent, 100 tests. Range: 0.002 to 0.250 mg/L.	10 oz.	**94937**	**$106.40**
Chlorine (Free), Model Cl2-1 TP, DPD, Powder pack reagent, 10 ml, pack of 100. Range: 0.02 to 2.00 mg/L.	3 oz.	**94938**	**$18.05**
Chlorine (Total), Model Cl2-3 TP, DPD, Powder pack reagent, 10 ml, pack of 100. Range: 0.02 to 2.00 mg/L.	3 oz.	**94939**	**$18.05**
Copper, Model Cu-1 TP, Powder pack reagent, pack of 100. Range: 0.5 to 12.00 mg/L.	1 lb.	**94940**	**$35.15**
Iron (Total), Model Fe-2 TP, Powder pack reagent, pack of 100. Range: 0.02 to 3.00 mg/L.	1 lb.	**94941**	**$17.10**
Manganese (High Range), Model Mn-1 TP, Powder pack reagent, pack of 100. Range: 0.2 to 20.0 mg/L.	1 lb.	**94943**	**$43.70**
Manganese (Low Range), Model Mn-2 TP, Powder pack reagent, pack of 50. Range: 0.007 to 0.700 mg/L.	1 lb.	**94944**	**$39.90**
Monochloramine, Ammonia Free, Model MCA-1 TP, 100 powder packs for Monochloramine and 4 ml of reagent for 40 to 80 Free Ammonia tests. Range: 0.04 to 4.50 mg/L.	8 oz.	**94942**	**$79.80**
Nitrite (Low Range), Model NO2-1 TP, Powder pack reagent, 10 ml, pack of 100. Range: 0.002 to 0.300 mg/L NO2-N; 0.007 to 0.985 mg/L NO2.	1 lb.	**94946**	**$28.50**
Nitrogen, Ammonia, Model NH4-1 TP, Powder pack reagent, pack of 100. Range: 0.01 to 0.50 mg/L NH4-N; 0.01 to 0.64 NH4; NH3-N.	1 lb.	**94945**	**$88.35**
Phosphate (Orthophosphate), Model PO4-1 TP, Powder pack reagent, pack of 100. Range: 0.007 to 0.800 mg/L PO4-P; 0.02 to 2.45 mg/L PO4.	1 lb.	**94947**	**$25.65**
Sulfate, Model SO4-2 TP, Powder pack reagent, 25 ml, pack of 100. Range: 2 to 70 mg/L SO4.	1 lb.	**94948**	**$25.65**

a xylem brand

Manufacturer's Warranty 2 Year

YSI® Photometer Kits and Reagents

8316

Model 9300 Photometer Kit

Eliminates sample preservation by allowing you to perform on-site analysis! Features include 100+ test choices directly on the display; direct-reading concentrations with automatic set-up; on-screen instructions; a large, backlit graphic display; and multiple languages. Ready for testing after color develops for 5 to 10 minutes. Waterproof, floats, and meets IP-67 standards.

Accuracy: ±0.5% at 4% transmittance; ±0.005 at 0.3 AU. **Resolution:** 0.001 AU. **Operating Wavelengths:** 450, 500, 550, 575, 600, and 650 nm. **Power:** 3 AA batteries (included). **Dimensions:** 5.8˝x 10.8˝x 3˝. **Weight:** 2 lbs.

Model 9300 Photometer Kit	5 lbs.	**94800**	**$997.50**

Model 9500 Photometer Kit

The Model 9500 features a waterproof USB connection and an internal memory which holds up to 500 sample sets with date and time stamp. Connect the instrument to a PC via the USB and simply drag and drop the files to the PC for fast download. The instrument allows for up to 30 user-defined test methods for enhanced flexibility and can be powered either by 3 AA included or via USB.

Model 9500 Photometer Kit	6 lbs.	**94801**	**$1287.25**
AA cell Alkaline Batteries, pack of 4	7 oz.	**02352**	**$3.25**

Photometer Reagents – Safe and easy to use, the reagents are non-hazardous. 50 tests per unit.

Total Alkalinity	4 oz.	**94796**	**$34.20**
Aluminum	4 oz.	**94797**	**$36.10**
Calcium Hardness	3 oz.	**94802**	**$34.20**
Free, Combined and Total Chlorine	3 oz.	**94803**	**$23.75**
Hardness	4 oz.	**94805**	**$39.90**
Iron	3 oz.	**94806**	**$26.60**
Magnesium	3 oz.	**94807**	**$39.90**
Manganese	4 oz.	**94808**	**$40.85**
Nitrate	5 oz.	**94810**	**$55.10**
Nitrite	2 oz.	**94811**	**$22.80**
pH	3 oz.	**94813**	**$16.86**
Phosphate	5 oz.	**94814**	**$40.85**
Potassium	2 oz.	**94815**	**$40.85**
Sulfate	3 oz.	**94816**	**$19.95**
Sulfide	2 oz.	**94817**	**$40.85**
Zinc	5 oz.	**94818**	**$52.25**

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New! YSI® ProDSS Digital Sampling System

4987

The ProDSS is a portable water quality multiparameter instrument for the measurement of up to 17 parameters including: optical dissolved oxygen/BOD, turbidity, pH, ORP, conductivity, specific conductance, salinity, TDS, resistivity, TSS, ammonium, ammonia, chloride, nitrate, depth (optional), temperature, and GPS (optional). Designed for use in applications such as surface water, groundwater, coastal/estuarine, and aquaculture, the ProDSS allows for the measurement of water quality parameters with digital sensors. The ProDSS uses smart, user-replaceable sensor technology that can be connected in any port and automatically recognized by the handheld while retaining the calibration data. The ProDSS will also work with the YSI ProODO sensor/cable to provide a DO only instrument. Features include an easy-to-read backlit color display, large memory capacity, simple calibration procedures, rechargeable battery and powerful data management program (KorDSS). Military spec connectors, IP67 waterproof, rubber over-molded case and 1-meter drop tests ensures durability to provide years of sampling even in the harshest field conditions. Sensors and Cable Assemblies are sold separately.

Size: 3.25˝W x 8.5˝L x 2.21˝D. **Weight with batteries:** 1.25 lbs. **Power:** Rechargeable lithium-ion battery pack provides ±48 hours of battery life. **Instrument Operating Temperature:** 32°F to 140‡F (0°C to 50°C). **Instrument Storage Temperature:** 32°F to 113°F (0°C to 45°C). **Display:** Color, LCD graphic display. **USB Port:** Built-in micro-USB On-The-Go port. **Sensor Ports:** 4 universal sensor ports on each cable. **Memory:** > 100000 data sets. **Logging Modes:** Single point or continuous with autostable feature. **GLP Compliance:** Yes. **Certifications:** RoHS, CE, WEEE, FCC, IP-67, 1-meter drop test, UN Part III Section 38.3 test methods for lithium-ion batteries (class 9), Assembled in USA. **Sites and Data ID:** 100 user-defined sites and 100 user-defined data ID tags.

ProDSS Handheld - Meter only	1 lb.	**76721**	**$1496.25**
ProDSS Handheld with GPS - Meter only	1 lb.	**76722**	**$1971.25**
Large Hard Sided Carrying Case	1 lb.	**76746**	**$332.50**

76723

YSI® ProDSS Cable Assemblies

Single cable design features universal ports which can accept any four Smart Sensors plus depth (optional - depending on cable). Includes a maintenance kit (3 port plugs, tube of Krytox® lubricant, brush for conductivity probe, syringe for depth sensor, and sensor installation/removal tool). A 1 lb. weight is included with the 10 and 20 meter cable assemblies.

YSI ProDSS 4 meter 4 port Cable Assembly, No Depth	1 lb.	**76723**	**$1662.50**
YSI ProDSS 4 meter 4 port Cable Assembly, with Depth	1 lb.	**76724**	**$2375.00**
YSI ProDSS 10 meter 4 port Cable Assembly, No Depth	1 lb.	**76725**	**$1710.00**
YSI ProDSS 10 meter 4 port Cable Assembly, with Depth	1 lb.	**76726**	**$2422.50**
YSI ProDSS 20 meter 4 port Cable Assembly, No Depth	1 lb.	**76727**	**$1805.00**
YSI ProDSS 20 meter 4 port Cable Assembly, with Depth	1 lb.	**76728**	**$2517.50**
YSI ProDSS Weight Kit	1 lb.	**76738**	**$150.00**

New! YSI ProDSS Smart Sensors

4987

Digital Smart Sensors are automatically recognized by the ProDSS instrument and store calibration data.

YSI ProDSS Turbidity Smart Sensor

Sensor Type: Nephelometric - Optical, 90° Scatter. **Range:** 0 to 4000 FNU. **Accuracy:** 0 to 999 (0.3 or ±2% of reading, whichever is greater); 1000 to 4000 (±15% of reading). **Resolution:** 0.1 FNU. **Units:** FNU, NTU.

YSI ProDSS Turbidity Smart Sensor	1 lb.	**76729**	**$1045.00**

YSI ProDSS ODO Optical Dissolved Oxygen Smart Sensor

Sensor Type: Optical luminescence - lifetime method. **Range:** 0 to 50 mg/L. **Accuracy:** 0 to 20 mg/L (±0.1 mg/L or 1% of reading, whichever is greater); 20 to 50 mg/L (±8% of reading). **Resolution:** 0.1 or 0.01 mg/L (user selectable). **Units:** mg/L, ppm.

YSI ProDSS ODO Optical Dissolved Oxygen Smart Sensor	1 lb.	**76732**	**$950.00**
Replacement ProDSS ODO Sensor Cap	1 lb.	**76741**	**$118.75**

YSI ProDSS pH/ORP Smart Sensor With Module

pH – Sensor Type: Glass Bulb Combination Electrode; Ag/AgCl Reference Gel. **Range:** 0 to 14 pH units. **Accuracy:** ±0.2 pH units. **Resolution:** 0.01 pH units. **Units:** pH, pH mV. **ORP – Sensor Type:** Platinum Button; Ag/AgCl Reference. **Range:** -1999 to +1999 mV. **Accuracy:** ±20 mV. **Resolution:** 0.1 mV. **Units:** mV.

YSI ProDSS pH/ORP Smart Sensor With Module	1 lb.	**76730**	**$546.25**
Replacement pH/ORP Electrode Module	1 lb.	**76743**	**$237.50**

YSI ProDSS pH Smart Sensor with Module

Sensor Type: Glass Bulb Combination Electrode; Ag/AgCl Reference Gel. **Range:** 0 to 14 pH units. **Accuracy:** ±0.2 pH units. **Resolution:** 0.01 pH units. **Units:** pH, pH mV.

YSI ProDSS pH Smart Sensor with Module	1 lb.	**76731**	**$427.50**
Replacement pH Electrode Module	1 lb.	**76744**	**$161.50**

YSI ProDSS Nitrate Smart Sensor with Module

For freshwater only; 20-meter maximum depth. **Sensor Type:** Ion Selective Electrode. **Range:** 0 to 200 mg/L NO3-N. **Accuracy:** ±10% of reading or 2 mg/L, whichever is greater. **Resolution:** 0.01 mg/L. **Units:** NO_3-N mg/L, NO_3-N mV.

YSI ProDSS Nitrate Smart Sensor with Module	1 lb.	**76733**	**$546.25**
Replacement Nitrate Electrode Module	1 lb.	**76742**	**$256.50**

YSI ProDSS Ammonium Smart Sensor with Module

Ammonia with pH sensor for freshwater only; 20-meter maximum depth. **Sensor Type:** Ion Selective Electrode. **Range:** 0 to 200 mg/L NH_4-N. **Accuracy:** ±10% of reading or 2 mg/L, whichever is greater. **Resolution:** 0.01 mg/L. **Units:** NH4-N mg/L, NH_4-N mV.

YSI ProDSS Ammonium Smart Sensor with Module	1 lb.	**76736**	**$546.25**
Replacement Ammonium Electrode Module	1 lb.	**76739**	**$256.50**

YSI ProDSS Chloride Smart Sensor with Module

For freshwater only; 20-meter maximum depth. **Sensor Type:** Ion Selective Electrode. **Range:** 0 to 18000 mg/L Cl. **Accuracy:** ±15% of reading or 5 mg/L, whichever is greater. **Resolution:** 0.01 mg/L. **Units:** Cl mg/L, Cl mV.

YSI ProDSS Chloride Smart Sensor with Module	1 lb.	**76735**	**$546.25**
Replacement Chloride Electrode Module	1 lb.	**76740**	**$256.50**

YSI ProDSS Conductivity and Temperature Smart Sensor

Conductivity – Sensor Type: Four Nickel Electrode Cell. **Range:** 0 to 200 mS/cm. **Accuracy:** 0 to 100 mS/cm (±0.5% of reading or 0.001 mS/cm, whichever is greater); 100 to 200 mS/cm (±1% of reading). **Resolution:** 0.001, 0.01 or 0.1 µS/cm (range dependent). **Units:** µS, mS. **Temperature – Sensor Type:** Thermistor; Combination Sensor with Conductivity. **Range:** 23°F to 158°F (-5°C to 70°C). **Accuracy:** ±0.2°C. **Resolution:** 0.1°C or 0.1°F (user selectable). **Units:** °C, °F, K.

YSI ProDSS Conductivity and Temperature Smart Sensor	1 lb.	**76734**	**$665.00**

YSI ProDSS Flow Cell

YSI ProDSS Flow Cell	1 lb.	**76737**	**$266.00**

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3 Manufacturer's Warranty 3 Year Instrument

YSI Professional Series Professional Plus Instrument
4442

Customize it to meet your individual measurement needs!

Offering the ultimate in versatility, the Professional Plus can accommodate any cable and corresponding probe combination. Just select the cable length and appropriate probe (or probes) you need, then determine which measurements you want to be displayed. Choose from the following probes: dissolved oxygen (galvanic or polarographic probe), pH, ORP, ph/ORP combination, ammonium, chloride, and nitrate. Single probe and dual probe cables are available. All cables provide temperature measurements without the need for a dedicated temperature probe, and conductivity cables feature a conductivity probe built into the cable.

The Professional Plus offers interval or single event logging and features a 5,000 data-set memory with additional GLP event logging. This instrument can even log data and then download it to a PC using Data Manager software (included). A graphic display provides detailed messages and instructions, and both the display and keypad are backlit. The rubber over-molded case features an IP-67 waterproof rating. Software, communication dock, and USB cable included. Three-year manufacturer's warranty on the instrument. Order the instrument, cables, and probes separately below.

Professional Plus Instrument	3 lbs.	**76499**	**$1140.00**
Soft-side Carrying Case	1 lb.	**76475**	**$82.65**

New! Pro Plus Field Kit
Polarographic DO, Temp/Conductivity and pH

This Pro Plus Kit includes the meter, a 4-meter quatro cable, a temperature/conductivity probe, Polarographic DO probe, field pH probe, carrying case, and cable management kit.

Pro Plus Field Kit with 4m Cable – Polarographic DO, Conductivity and pH	1 lb.	**76750**	**$2850.00**

New! Pro Plus Field Kit
Polarographic DO, Temp/Conductivity, pH, and ORP

Kit includes the Pro Plus meter, a 4-meter quatro cable with temperature/conductivity, Polarographic DO probe, field pH, field ORP probe, carrying case, and cable management kit.

Pro Plus Field Kit – Polarographic DO, Temp/Conductivity, pH, and ORP	1 lb.	**76751**	**$3040.00**

Cables
4442

Choose either a specialized cable or the 4-port Quatro cable cable and bulkhead that holds four user-replaceable probes for temperature/conductivity, dissolved oxygen (polarographic or galvanic), plus your choice of any two ISE's: pH, ORP, ammonium, nitrate, or chloride. Each Quatro cable includes a temperature/conductivity probe and a cable management kit. Other probes sold separately.

Quatro Cable Assembly

Cable	4m Wt.	4m SN	4m Each	10m Wt.	10m SN	10m Each	20m Wt.	20m SN	20m Each
Quatro Cable Assembly	4 lbs.	**76508**	**$1287.25**	5 lbs.	**76509**	**$1346.15**	7 lbs.	**76535**	**$1448.75**
ISE/Temperature	2 lbs.	**76491**	**$242.25**	4 lbs.	**76490**	**$285.00**	5 lbs.	**76489**	**$346.75**
Dissolved Oxygen/Temperature	2 lbs.	**76488**	**$251.75**	3 lbs.	**76487**	**$299.25**	5 lbs.	**76486**	**$356.25**
Conductivity/Temperature	2 lbs.	**76485**	**$308.75**	4 lbs.	**76484**	**$365.75**	6 lbs.	**76483**	**$408.50**
ISE/ISE/Temperature	3 lbs.	**76482**	**$532.00**	4 lbs.	**76481**	**$579.50**	6 lbs.	**76479**	**$674.50**
ISE/Dissolved Oxygen/Temperature	3 lbs.	**76469**	**$541.50**	4 lbs.	**76468**	**$589.00**	6 lbs.	**76467**	**$684.00**
ISE/Conductivity/Temperature	3 lbs.	**76466**	**$446.50**	4 lbs.	**76465**	**$489.25**	6 lbs.	**76464**	**$541.50**
Dissolved Oxygen/Conductivity/Temperature	3 lbs.	**76463**	**$589.00**	4 lbs.	**76449**	**$641.25**	6 lbs.	**76448**	**$688.75**

Note: All cable assemblies have temperature sensors built in (except for the Quatro which includes a temperature/conductivity probe). Cable assemblies for conductivity have a built-in conductivity sensor. No additional probe is necessary.

YSI® Professional Series Probes
4442

Temperature (included with all cables – Range: -5°C to 100°C (DO compensation range -5°C to 45°C). **Accuracy:** ±0.15°C. **Resolution:** 0.01°C. **Dissolved Oxygen – Sensor type:** galvanic or polarographic (user-selectable). **Range:** 0 to 500% air saturation; 0 to 50 mg/L. **Accuracy:** 0 to 200% (±2% of the reading or ±2% air saturation, whichever is greater)/200% to 500% (±6% of the reading); 0 to 20 mg/L (±2% of the reading or 0.2 mg/L; whichever is greater)/20 mg/L to 50 mg/L (±6% of the reading). **Resolution:** 1% or 0.1% air saturation (user-selectable); 0.1 mg/L or 0.01 mg/L (user-selectable)/0.1% air saturation. **pH – Sensor type:** glass combination electrode. **Range:** 0 to 14 units. **Accuracy:** ±0.2 units. **Resolution:** 0.01 units. **Conductivity – Sensor type:** 4-electrode cell with autoranging. **Range:** 0 to 200 mS/cm. **Accuracy:** ±0.5% of reading or ±0.001 mS/cm, whichever is greater (4m cable); ±1.0% of reading or ±0.001 mS/cm, whichever is greater (20m cable). **Resolution:** 0.001 mS/cm to 0.1 mS/cm (range-dependent). **Salinity – Sensor type:** calculated from conductivity and temperature. **Range:** 0 to 70 ppt. **Accuracy:** ±1.0% of reading or ±0.1 ppt, whichever is greater. **Resolution:** 0.01 ppt. **Total Dissolved Solids (TDS) – Sensor type:** calculated from conductivity (variable constant, default 0.65). **Range:** 0 to 100 g/L. **Resolution:** 4 digits. **Barometer – Range:** 375 mm Hg to 825 mm Hg. **Accuracy:** ±1 mm Hg within ±15°C temperature range from calibration point. **Resolution:** 0.1 mm Hg. **Units:** mmHg, inHg, KPa. **ISE – Sensor type:** platinum button. **Range:** -1,999 mV to +1,999 mV. **Accuracy:** ±20 mV. **Resolution:** 0.01 mV. **Units:** mV or mg/L.

Galvanic Dissolved Oxygen Sensor	4 oz.	**76447**	**$171.00**
Polarographic Dissolved Oxygen Sensor	5 oz.	**76446**	**$171.00**
pH (ISE) Sensor	3 oz.	**76445**	**$164.35**
ORP (ISE) Sensor	5 oz.	**76444**	**$194.75**
pH/ORP (ISE) Combination Sensor	4 oz.	**76443**	**$280.25**
Ammonium (ISE) Sensor	3 oz.	**76442**	**$342.00**
Chloride (ISE) Sensor	3 oz.	**76439**	**$342.00**
Nitrate (ISE) Sensor	3 oz.	**76429**	**$342.00**
Pro Plus Flow Cell for Quatro Probe	2 lbs.	**76550**	**$361.00**

Calibration Solutions/Accessories
4445

Ammonium Calibration Solution, 1 mg/L	1 lb.	**76524**	**$77.90**
Ammonium Calibration Solution, 10 mg/L	1 lb.	**76525**	**$77.90**
Ammonium Calibration Solution, 100 mg/L	2 lbs.	**76526**	**$77.90**
Nitrate Calibration Solution, 1 mg/L	2 lbs.	**76527**	**$77.90**
Nitrate Calibration Solution, 10 mg/L	2 lbs.	**76528**	**$77.90**
Nitrate Calibration Solution, 100 mg/L	2 lbs.	**76529**	**$77.90**
DO Membrane Kit, (6) 1.25 mil PE	3 oz.	**76359**	**$57.00**
Replacement DO Membrane Kit for Galvanic DO Probe	3 oz.	**76536**	**$57.00**
pH, ORP, and Conductivity Confidence Solution, 475 mL	1 lb.	**76304**	**$18.40**
Soft-side Carrying Case	1 lb.	**76475**	**$82.65**

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a xylem brand

New! YSI® Professional Series Pro1020 pH/ORP/Dissolved Oxygen/Temperature Meter

4888

Rugged and reliable, this handheld instrument measures dissolved oxygen, temperature, and your choice of either pH or ORP. Simply select the probes and cable length to meet your needs. All cables provide temperature measurements with no separate temperature probe needed. Dissolved oxygen is measured using either a polarographic or galvanic sensor. Smart calibration allows the instrument to remember previous calibration values, allowing for fast dissolved oxygen calibration in two button pushes. The Pro1020 stores 50 data sets, boasts a quick response time, features a backlit display, and is protected by an impact-resistant IP67 waterproof housing. Order instrument, cables, and probes separately.

YSI Professional Series Pro1020 Instrument	2 lbs.	**76494**	**$703.00**
4m Cable for ISE/Dissolved Oxygen/Temperature	3 lbs.	**76469**	**$541.50**
10m Cable for ISE/Dissolved Oxygen/Temperature	4 lbs.	**76468**	**$589.00**
20m Cable for ISE/Dissolved Oxygen/Temperature	6 lbs.	**76467**	**$684.00**
ORP (ISE) Sensor	5 oz.	**76444**	**$194.75**
pH (ISE) Sensor	3 oz.	**76445**	**$164.35**
Polarographic Dissolved Oxygen Sensor	5 oz.	**76446**	**$171.00**
Galvanic Dissolved Oxygen Sensor	4 oz.	**76447**	**$171.00**
Replacement DO Membrane Kit for Galvanic DO Probe	3 oz.	**76536**	**$57.00**
Soft-side Carrying Case	1 lb.	**76475**	**$82.65**

a xylem brand

YSI® Professional Series Pro1030 pH/ORP/ Conductivity Instrument

4444

This precision instrument measures conductivity, temperature, and one other parameter using the probe and cable length of your choice. Choose between pH or ORP ISE sensors. A conductivity probe is built-in with the cable. All of the cables provide temperature measurements with no temperature probe needed. A graphic display offers detailed messages and instructions. Both the display and keypad are backlit. The rubber over-molded case features an IP-67 waterproof rating. Order instrument, cables, and probes separately below.

YSI Professional Series Pro1030 pH/ORP/Conductivity Instrument	2 lbs.	**76493**	**$703.00**
4m Cable for ISE/Conductivity/Temperature	3 lbs.	**76466**	**$446.50**
10m Cable for ISE/Conductivity/Temperature	4 lbs.	**76465**	**$489.25**
20m Cable for ISE/Conductivity/Temperature	6 lbs.	**76464**	**$541.50**
pH (ISE) Sensor	3 oz.	**76445**	**$164.35**
ORP (ISE) Sensor	5 oz.	**76444**	**$194.75**
Soft-side Carrying Case	1 lb.	**76475**	**$82.65**

76466

76463

a xylem brand

YSI® Professional Series Pro2030 Dual Dissolved Oxygen/Conductivity Instrument

7893

Measure dissolved oxygen (using either the galvanic or polarographic probe) and conductivity (using the probe built-in with the cable) with the Pro2030 and the cable length of your choice. All of the cables provide temperature measurements with no temperature probe needed. A graphic display offers detailed messages and instructions. Both the display and keypad are backlit. The rubber over-molded case features an IP-67 waterproof rating. Order instrument, cables, and probes separately below.

Pro2030 Dual Dissolved Oxygen/Conductivity Instrument	3 lbs.	**76492**	**$717.25**
4m Cable for Dissolved Oxygen/Conductivity/Temperature	3 lbs.	**76463**	**$589.00**
10m Cable for Dissolved Oxygen/Conductivity/Temperature	4 lbs.	**76449**	**$641.25**
20m Cable for Dissolved Oxygen/Conductivity/Temperature	6 lbs.	**76448**	**$688.75**
Galvanic Dissolved Oxygen Sensor	4 oz.	**76447**	**$171.00**
Polarographic Dissolved Oxygen Sensor	5 oz.	**76446**	**$171.00**
DO Membrane Kit, (6) 1.25 mil PE	3 oz.	**76359**	**$57.00**
Replacement DO Membrane Kit for Galvanic DO Probe	3 oz.	**76536**	**$57.00**
Soft-side Carrying Case	1 lb.	**76475**	**$82.65**

New! YSI® Professional Series Pro2030 Dual Dissolved Oxygen/Conductivity Instrument Kit

7893

This Pro2030 Kit includes a Pro2030 meter, a 4m cable with conductivity built in and Polarographic DO probe, plus a carrying case. Measure dissolved oxygen and conductivity. The cable provides temperature measurements with no temperature probe needed. A graphic display offers detailed messages and instructions. Both the display and keypad are backlit. The rubber over-molded case features an IP-67 waterproof rating.

YSI Professional Series Pro2030 Dual Dissolved Oxygen/Conductivity Instrument Kit	1 lb.	**76753**	**$1553.25**

YSI® Professional Series Calibration Solutions and Accessories

4445

Ammonium Calibration Solution, 1 mg/L	1 lb.	**76524**	**$77.90**
Ammonium Calibration Solution, 10 mg/L	1 lb.	**76525**	**$77.90**
Ammonium Calibration Solution, 100 mg/L	2 lbs.	**76526**	**$77.90**
Nitrate Calibration Solution, 1 mg/L	2 lbs.	**76527**	**$77.90**
Nitrate Calibration Solution, 10 mg/L	2 lbs.	**76528**	**$77.90**
Nitrate Calibration Solution, 100 mg/L	2 lbs.	**76529**	**$77.90**
DO Membrane Kit, (6) 1.25 mil PE	3 oz.	**76359**	**$57.00**
Replacement DO Membrane Kit for Galvanic DO Probe	3 oz.	**76536**	**$57.00**
pH, ORP, and Conductivity Confidence Solution, 475 mL	1 lb.	**76304**	**$18.40**

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New! YSI® Professional Series Pro10 pH/ORP/Temperature

4448

Combine the Pro10 instrument with the corresponding cable and probe to obtain temperature and pH or temperature and ORP. A graphic display provides detailed messages and instructions. Both the display and keypad are backlit. The rubber over-molded case features an IP-67 waterproof rating. Order instrument, cables and probes separately.

YSI Professional Series Pro10 pH/ORP/Temperature	2 lbs.	**76498**	**$451.25**
pH (ISE) Sensor	3 oz.	**76445**	**$164.35**
ORP (ISE) Sensor	5 oz.	**76444**	**$194.75**
4m Cable for ISE/Temperature	2 lbs.	**76491**	**$242.25**
10m Cable for ISE/ Temperature	4 lbs.	**76490**	**$285.00**
20m Cable for ISE/ Temperature	5 lbs.	**76489**	**$346.75**
Soft-side Carrying Case	1 lb.	**76475**	**$82.65**

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YSI® Professional Series Pro20 Dissolved Oxygen Instrument

4443

Combine this single probe instrument with the cable length of your choice and a probe to obtain precise dissolved oxygen measurements. Two probe options are available, galvanic ("instant on") or polarographic. All of the cables also provide temperature measurements (with no temperature probe needed). A graphic display provides detailed messages and instructions. Both the display and keypad are backlit. The rubber over-molded case features an IP-67 waterproof rating. Order instrument, cables, and probes separately below.

Pro20 Dissolved Oxygen Instrument	2 lbs.	**76497**	**$532.00**
1m Cable for Dissolved Oxygen/ Temperature	1 lb.	**76453**	**$237.50**
4m Cable for Dissolved Oxygen/ Temperature	2 lbs.	**76488**	**$251.75**
10m Cable for Dissolved Oxygen/ Temperature	3 lbs.	**76487**	**$299.25**
20m Cable for Dissolved Oxygen/ Temperature	5 lbs.	**76486**	**$356.25**
Galvanic Dissolved Oxygen Sensor	4 oz.	**76447**	**$171.00**
Polarographic Dissolved Oxygen Sensor	5 oz.	**76446**	**$171.00**
DO Membrane Kit, (6) 1.25 mil PE	3 oz.	**76359**	**$57.00**
Replacement DO Membrane Kit for Galvanic DO Probe	3 oz.	**76536**	**$57.00**
Soft-side Carrying Case	1 lb.	**76475**	**$82.65**
New! YSI Pro20 Dissolved Oxygen Instrument Kit with 4m Cable	1 lb.	**76752**	**$1035.50**

a xylem brand

YSI® Professional Series Pro30 Conductivity Instrument

7891

Combine the Pro30 instrument with the cable length of your choice to obtain conductivity measurements. The conductivity probe is built-in with each cable. No additional probe is necessary. All of the cables also provide temperature measurements (with no temperature probe needed). A graphic display provides detailed messages and instructions. Both the display and keypad are backlit. The rubber over-molded case features an IP-67 waterproof rating. Order instrument and cables separately below.

Pro30 Conductivity Instrument	2 lbs.	**76496**	**$532.00**
4m Cable for Conductivity/ Temperature	2 lbs.	**76485**	**$308.75**
10m Cable for Conductivity/ Temperature	4 lbs.	**76484**	**$365.75**
20m Cable for Conductivity/ Temperature	6 lbs.	**76483**	**$408.50**
Soft-side Carrying Case	1 lb.	**76475**	**$82.65**

YSI® Conductivity Calibration Solutions

6708

1.0 Conductivity Calibration Solution 1 mS/cm fresh water range	1 lb.	**76195**	**$14.49**
10.0 Conductivity Calibration Solution 10 mS/cm brackish water range	1 lb.	**76196**	**$14.49**
50.0 Conductivity Calibration Solution 50 mS/cm saltwater range	1 lb.	**76197**	**$14.25**

a xylem brand

YSI® ProODO™ Handheld Optical Dissolved Oxygen Meter

8728

Rugged and reliable, this meter uses an ODO (Optical Dissolved Oxygen) luminescent sensor that eliminates both the need for stirring and frequent membrane changes. Because the sensor has no flow dependence, it is ideal for deep water profiling where stirring is either difficult or undesirable. In addition, the lack of flow dependence reduces the possibility of operator error and ensures high quality data. The ProODO features a DO range of 0 to 500% and includes a barometer for continual compensation. The "smart" digital sensor technology stores calibration data within the sensor, allowing probes to be placed on any ProODO instrument without calibration. The meter's advanced technology reduces the time and expense related to calibrating and maintaining sensors. Depending on usage, calibrations can be stable for up to one year, and there are no electrodes to clean or solutions to change. The meter stores 2,000 data sets (sensor data, date, time, site, and user-defined information), and managing the data is easy using the included Data Manager software. The ProODO features a backlit display and keypad and is housed in an impact-resistant, IP-67 waterproof case. Three-year warranty on the instrument and two-year warranty on the cable and probe from the manufacturer.

Dissolved Oxygen (% Saturation): Range, 0 to 500% air saturation; Accuracy, 0 to 200% air saturation, ±1% of the reading or ±1% air saturation, whichever is greater; 200 to 500% air saturation, ±15% of the reading; Resolution, 0.1% air saturation. **Dissolved Oxygen (mg/L):** Range, 0 to 50 mg/L; Accuracy, 0 to 20 mg/L, ±0.1 mg/L or ±1% of reading, whichever is greater; 20 to 50 mg/L, ±15% of the reading; Resolution, 0.01 or 0.1 mg/L (auto-scaling). **Temperature (°C, °F, °K):** Range, -5° to 70°C; Accuracy, ±0.2°C; Resolution, 0.01°C. **Barometer (mmHg, inHg, mBar, Psi, KPa):** Range, 375 to 825 mmHg; Accuracy, ±1.5 mmHg from 0 to 50°C; Resolution, 0.1 mmHg. **Response Time:** 90% of reading within 25 seconds. **Calibration:** DO, one point or two point with a zero % value; Barometer, one point. **Storage Temperature:** -20° to 70°C. **Power:** 2 C cell alkaline batteries. **Dimensions:** Meter, 3.25˝W x 8.5˝L x 2.25˝D; Probe, 7.5˝L x 0.95˝ dia. **Weight:** 1.05 lbs. (with batteries).

YSI ProODO Handheld Optical Dissolved Oxygen Meter	3 lbs.	**76540**	**$674.50**
4m Cable Assembly	2 lbs.	**76541**	**$631.75**
10m Cable Assembly	3 lbs.	**76542**	**$703.00**
20m Cable Assembly	4 lbs.	**76543**	**$755.25**
Replacement Sensing Element	3 oz.	**76544**	**$95.00**
Soft-side Carrying Case	1 lb.	**76475**	**$82.65**
New! YSI ProODO™ Dissolved Oxygen Meter Kit with 4m Cable	1 lb.	**76754**	**$1377.50**

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YSI® 55 Dissolved Oxygen Meter

3298

A complete dissolved oxygen system.

The YSI® Model 55 simultaneously displays temperature in degrees Celsius and dissolved oxygen in either mg/L or % air saturation with all readings being temperature compensated. Compensation for barometric pressure is automatically calculated by entering in your local altitude, and salinity compensation is automatic once you enter the approximate salinity of your sample in parts per thousand. Even field calibration can be easy due to a built in calibration chamber with a small sponge. The YSI 55 features a large, easy-to-read, back-lit LCD, a strain relief where the probe connects to the cable, and error messages on the LCD that help pinpoint problems and possible causes. Includes six AA size batteries which provide approximately 100 hours of operation.

Accuracy: ±0.3 mg/L/±2% air saturation/±0.2°C. **Resolution:** 0.01 mg/L dissolved oxygen/0.1% air saturation/0.1°C. **Range:** 0-20 mg/L/0-200% air saturation/ -5°C to +45°C oxygen temp. **Salinity Compensation:** 0 to 40 ppt (manually entered). **Altitude Compensation:** 0 to 10,000 feet (manually entered). **Temperature compensation:** automatic. **Dimensions:** 2.2″ thick x 3.5″W x 9.5″H.

Model 55 with 12′ Cable 4 lbs.	**76231**	**$807.55**
Model 55 with 25′ Cable 4 lbs.	**76232**	**$855.00**
Model 55 with 50′ Cable 4 lbs.	**76247**	**$950.00**
Hard Carrying Case 2 lbs.	**76233**	**$52.25**
Pelican 1500 Case with Foam Insert, Black 9 lbs.	**35717**	**$151.25**
Replacement Membranes (2 packs of 15) and KCL Filling Solution 2 oz.	**76175**	**$38.00**

YSI® 550A DO Instrument

2337

Provides fast response times!

The rugged, waterproof YSI 550A measures dissolved oxygen and temperature simultaneously using polarographic technology and YSI Temperature Precision™ thermistors. The new PE membranes allow for faster response times with less stirring dependence. Measurements are fast and easy with one-handed operation, easy-to-use backlit display, automatic push-button calibration, and a weighted, quick-sinking probe. Other features include field-replaceable DO electrode modules, waterproof housing (meets IP-67 specifications), impact-resistant case, 2,000+ hours battery life, screw-on cap membranes, calibration in either mg/L or % saturation, user-selectable temperature units (°C or °F), a built-in calibration chamber, low-battery indicator, and direct compensation for salinity, temperature, and altitude. CE compliant. Three-year warranty on the instrument. One-year warranty on the DO module.

Accuracy: 0% to 200%: ±2% air sat. or ±2% of reading, whichever is greater; **200% to 500%:** ±6% of reading; **0 to 20 mg/L:** ±0.3 mg/L or ±2% of reading, whichever is greater; **20 to 50 mg/L:** ±6% of reading; ±0.3°C. **Range:** 0% to 500% air saturation; 0 to 50 mg/L; -5°C to 45°C. **Resolution:** 0.1% air saturation or 1% selectable; 0.01 mg/L or 0.1 mg/L selectable; 0.1°C. **Altitude compensation:** yes. **Salinity compensation:** yes. **Temperature:** Auto compensation. **Power:** 4 C cell batteries. **Battery life:** over 2,000 hours. **Dimensions:** 4.7″W x 9″L.

YSI 550A with 12′ cable 4 lbs.	**76355**	**$831.25**
YSI 550A with 25′ cable 5 lbs.	**76356**	**$874.00**
Probe Reconditioning Kit 2 oz.	**76339**	**$28.50**
Softside Carry Case 3 oz.	**76348**	**$99.75**
Replaceable DO Module 2 oz.	**76347**	**$185.25**
DO Membrane Kit, (6) 1.25 mil PE 3 oz.	**76359**	**$57.00**
C cell Alkaline Battery, single 3 oz.	**02181**	**$1.85**

YSI® 556 Multi-Probe System

7106

The powerful features of a multiparameter system in a rugged handheld unit!

The YSI® 556 simultaneously measures dissolved oxygen, pH, conductivity, temperature, and ORP and is capable of measuring salinity. Housed in an IP-67, impact-resistant case, the meter offers an easy-to-read screen and can store over 49,000 data sets, time and date stamped. Measurements are easy with field-replaceable DO electrode modules and easy-to-use, screw-on cap DO membranes. Two models are available. The standard model measures dissolved oxygen, pH, conductivity, temperature, and ORP. The YSI® 556 model with an internal barometer provides barometric pressure measurements in addition to the measurements taken by the standard model. The barometer can be user-calibrated, and measurements can be displayed with other data, used in dissolved oxygen calibrations, and logged to memory to track barometric pressure changes. Each instrument comes with a soft-sided carrying case. The instrument is powered by 4 C batteries or an optional rechargeable battery pack (sold separately) with fast charge feature. Three-year warranty for the instrument. One-year warranty for probe module. An RS-232 cable comes with the unit for downloading data to a PC. The YSI 556 is compatible with Ecowatch™ for Windows™ data analysis software. Order the instrument, cable, and accessories separately.

Measurement Specifications: Dissolved Oxygen - Range: 0 to 500% air saturation/0 to 50 mg/L. **Accuracy:** 0 to 200% air saturation, ±2% of the reading or 2% air saturation, whichever is greater; 200 to 500% air saturation, ±6% of the reading/0 to 20 mg/L, ±2% of the reading or 0.2 mg/L, whichever is greater; 20 to 50 mg/L, ±6% of the reading. **Resolution:** 0.1% air saturation/0.01 mg/L. **pH- Range:** 0 to 14. **Accuracy:** ±0.2 units. **Resolution:** 0.01 units. **Conductivity - Range:** 0 to 100 mS/cm. **Accuracy:** ±0.5% of reading + 0.001 mS/cm. **Resolution:** 0.001 mS/cm to 0.1 mS/cm (range-dependent). **Temperature - Range:** -5°C to 45°C. **Accuracy:** ±0.15°C. **Resolution:** 0.1°C. **ORP - Range:** -999 to +999 mV. **Accuracy:** ±20 mV. **Resolution:** 0.1 mV. **Barometer (optional) - Range:** 500 to 800 mm Hg. **Accuracy:** ±3 mm Hg within ±15°C temperature range from calibration point. **Resolution:** 0.1 mm Hg.

YSI 556 (case included)* 8 lbs.	**76360**	**$1824.00**
YSI 556 with Barometer (case included)* 8 lbs.	**76361**	**$2037.75**
4 m Cable with DO/Temperature/Conductivity 3 lbs.	**76364**	**$997.50**
10 m Cable with DO/Temperature/ Conductivity 4 lbs.	**76365**	**$1092.50**
20 m Cable with DO/Temperature/ Conductivity 6 lbs.	**76366**	**$1187.50**
pH Kit 4 oz.	**76362**	**$256.50**
pH/ORP Kit 4 oz.	**76363**	**$342.00**
Rechargeable Battery Kit 2 lbs.	**76367**	**$342.00**
Flow Cell 2 lbs.	**76368**	**$380.00**
Replaceable DO Module 2 oz.	**76347**	**$185.25**
Membrane Kit, (6) 2 mil PE 3 oz.	**76275**	**$57.00**
pH, ORP, and Conductivity Confidence Solution, 475 mL 1 lb.	**76304**	**$18.40**
C cell Alkaline Battery, single 3 oz.	**02181**	**$1.85**
Zobell ORP Calibration Solution, 125 ml 1 oz.	**76316**	**$30.40**

*Must purchase cable and pH Kit or pH/ORP Kit separately.

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YSI a xylem brand — 1 Warranty 1 Year

YSI® EcoSense® DO 200A Dissolved Oxygen/Temperature Meter

2516

Compact and affordable, the DO 200A provides quick, accurate dissolved oxygen and temperature measurements simultaneously. The screw-on cap membranes reduce stirring dependence, offer fast response times, and are easy to replace. The weighted probe assembly sinks quickly and is protected from impact. Dissolved oxygen measurements are displayed in either % oxygen saturation or ppm (mg/L). Other features include a waterproof housing which meets IP-67 specifications, connecter caps, auto shut off function (after 30 minutes of non-use), low battery indicator, 50 data set reviewable memory, push-button calibration, and compensation for temperature, pressure, and salinity for accurate measurements in varying conditions. Probe and cable assemblies sold separately from the meter. Choose from two cable lengths. One-year warranty on instrument. One-year warranty on cable and electrode.

Range: 0% to 200% air saturation; 0 to 20 ppm; -6°C to 46°C. **Resolution:** 0.1% air saturation; 0.01 ppm; 0.1°C. **Accuracy:** ±2% of the reading or ±2% air saturation, whichever is greater; ±2% of the reading or ±0.2 ppm, whichever is greater; ±0.3°C ±1 digit. **Salinity compensation:** 0 to 40 ppt (manually entered). **Pressure compensation:** 600 to 1,100 milibars (manually entered). **Temperature compensation:** Auto. **Operating range:** Temperature, 0°C to 50°C; Relative humidity, up to 95%. **Power:** 9V alkaline battery. **Dimensions:** 9.5˝L x 3.4˝W x 2.8˝D.

YSI EcoSense DO 200A Meter 15 oz.	**76701**	**$270.75**
Probe w/4m Cable 15 oz.	**76702**	**$285.00**
Probe w/10m Cable 1 lb.	**76703**	**$313.50**
DO Membrane Kit, (6) 1.25 mil PE 3 oz.	**76359**	**$57.00**
Hard Carrying Case 2 lbs.	**76704**	**$37.05**

YSI a xylem brand — 1 Warranty 1 Year

YSI® EcoSense® pH 100A pH/ORP/ Temperature Meter

2517

Measure pH or mV and temperature simultaneously with the economical pH 100A Meter. The meter's Autolock feature allows the unit to automatically sense the end point and "lock" the display to indicate the end point value of pH or mV measurements. In addition to easy one-handed operation, the meter also features electrode offset recognition, electrode slope recognition, display of electrode efficiency, and internal buffer recognition. Other features include auto buffer recognition using US/International buffers, auto shut off function (after 30 minutes of non-use), 50 data set reviewable memory, and a low battery indicator. Built for rugged use, the meter has a splash-proof, waterproof IP-67 housing with connector caps. Electrodes sold separately from the meter. One-year warranty on instrument. Six-month warranty on electrodes.

Range: -2 to 16 pH units; -1,999 to +1,250 mV; -10°C to 120°C. **Resolution:** 0.01 pH unit; 1 mV; 0.1°C. **Accuracy:** ±0.1% pH unit ±2 digit; ±0.1% mV ±1 digit; ±0.5°C ±2 digit. **Temperature:** Auto/manual compensation. **Operating range:** Temperature, 0°C to 50°C; Relative humidity, up to 95%. **Power:** 9V alkaline battery. **Dimensions:** 9.5˝L x 3˝W x 2.8˝D.

YSI EcoSense pH 100A Meter 1 lb.	**76706**	**$247.00**
pH/Temp Probe Assembly w/1m Cable 6 oz.	**76707**	**$97.85**
pH/Temp Probe Assembly w/4m Cable 1 lb.	**76708**	**$123.50**
ORP Electrode w/1m Cable 4 oz.	**76710**	**$90.25**
Hard Carrying Case 2 lbs.	**76709**	**$37.05**

YSI a xylem brand — 1 Warranty 1 Year

YSI® EcoSense® EC 300A Conductivity/ Salinity/Temperature Meter

2518

This compact, handheld meter measures conductivity, specific conductance, salinity, and temperature. Features include auto shut off function (after 30 minutes of non-use), 50 data set reviewable memory, and a low battery indicator. Other features include a super-stable four-electrode conductivity cell, calibration back-up, convenient one-hand operation, a user-friendly interface, and a waterproof, splash resistant case (meets IP-67) with connector caps. Probe and cable assemblies sold separately from the meter. Choose from two cable lengths. One-year warranty on instrument.

Range: Conductivity, 0 to 499.9 µS/cm, 0 to 4,999 µS/cm, 0 to 49.99 mS/cm, 0 to 200.0 mS/cm; Temperature, -10°C to 90°C; Salinity, 0.0 to 70.0 ppt. **Resolution:** Conductivity, 0.1 µS/cm, 0.01mS/cm, 0.1 mS/cm, 1 mS/cm; Temperature, 0.1°C; Salinity, 0.1 ppt. **Accuracy:** Conductivity, ±1% of reading +2 µS/cm, ±1% of reading +0.05 mS/cm, ±2.5% of reading +0.5 mS/cm, ±1% of reading +5 µS/cm; Temperature, ±0.2°C or ±0.4% F.S., whichever is greater; Salinity, 0.2% F.S. **TDS (Total Dissolved Solids) Constant:** TDS in g/L is calculated by multiplying this constant times the specific conductance in mS/cm. The user may enter values from 0.30 to 1.00, and the default value is 0.65. **Temperature compensation:** Auto. **Operating range:** Temperature, 0°C to 50.0°C; Relative humidity, up to 95%. **Power:** 9V alkaline battery. **Dimensions:** 2.8˝W x 7.3˝L.

YSI EcoSense EC 300A Meter 1 lb.	**76711**	**$280.25**
Probe w/4m Cable 1 lb.	**76712**	**$247.00**
Probe w/10m Cable 2 lbs.	**76713**	**$247.00**
Hard Carrying Case 2 lbs.	**76714**	**$37.05**

YSI a xylem brand — 1 Warranty 1 Year

New! YSI® EcoSense® ODO200 Optical DO and Temp Meter

4988

The optical sensor provides worry-free, accurate, repeatable measurements, holds calibration for several months, and requires no stirring. Features include an optical dissolved oxygen sensor, an easy-to-use interface, a 50 data set reviewable memory, and an IP67 waterproof case. Backed by a one-year instrument, probe and sensor cap warranty from the manufacturer. Optical DO and Temperature Field Probe with Cable sold separately.

Temperature – Range: 32°F to 122°F (0°C to 50°C). **Resolution:** 0.1°C. **Accuracy:** ±0.3°C. **Dissolved Oxygen (% Air Saturation) – Range:** 0 to 200%. **Resolution:** 1 or 0.1%. **Accuracy:** ±1.5% of reading or ±1.5%, whichever is greater. **Dissolved Oxygen (mg/L) – Range:** 0 to 20 mg/L. **Resolution:** 0.01 mg/L. **Accuracy:** ±1.5% of reading or ±0.15mg/L, whichever is greater. **Barometer (mBar) – Range:** 500 to 1125 mBar (manual input during calibration). **Resolution:** 1 mBar. **Salinity (ppt) – Range:** 0 to 40 ppt (manual input during calibration). **Operating Range – Temperature:** 32°F to 122°F (0°C to 50°C). **Relative Humidity:** up to 95%. **Memory:** 50 data set reviewable memory. **Certifications:** RoHS, WEEE, CE, IP67 waterproof. **Meter Size:** 3.1˝x 7.25˝x 1.45˝. **Sensor Size:** 7.5˝L x 0.95˝ dia. **Display Size:** 2˝x 1.5˝. **Display:** Segmented (shows DO in mg/L or % along with temperature). **Weight (with batteries):** 0.6 lb. **Battery:** one 9V (included). **Battery Life:** 100 hours.

EcoSense ODO200 Optical Dissolved Oxygen and Temp Instrument 1 lb.	**76716**	**$308.75**
EcoSense ODO200 Optical DO and Temperature Field Probe with 1m Cable 13 oz.	**76717**	**$546.25**
EcoSense ODO200 Optical DO and Temperature Field Probe with 4m Cable 1 lb.	**76718**	**$555.75**
EcoSense ODO200 Optical DO and Temperature Field Probe with 10m Cable 2 lbs.	**76719**	**$627.00**
Hard Plastic Carrying Case for ODO200 2 lbs.	**76720**	**$37.05**
Replacement Sensor Cap for ODO200 1 oz.	**76745**	**$95.00**

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eXact® Eco-Check™ Water Test Kit

2929

Produces lab-quality accuracy at minimal cost! Developed for pond and aquaria testing, this dual wavelength photometer automatically selects the optimal wavelength for each test. The patented EZ-3™ Reagent Delivery Method offers precise reagent dispersion into samples without color matching, drop counting, or tablet crushing. The kit includes 25 tests for these parameters: total alkalinity, ammonia, chloride (salt), free chlorine, total chlorine, copper, total hardness, nitrate, nitrite, pH in fresh water, pH in salt water, and phosphate. Each test has a 0.01 ppm (mg/L) precision. The meter features an automatic test timer, 220 test memory (saves last 20 tests per menu), auto calibration, long-life LED's, a built-in cell, and an IP67 waterproof-rated housing. The kit also includes a mini dilution kit, one mixing cap, one cell cleaning brush, an instruction booklet, and a plastic carrying case. Two-year manufacturer's warranty.

eXact Eco-Check Water Test Kit 3 lbs.	**78027**	**$499.95**

a xylem brand

YSI® EcoSense® EC30A

7215

Measures conductivity, TDS, and temperature.

Accurate, economical pen-style measurement of conductivity, TDS and temperature. Features include an IP-67 waterproof housing; automatic temperature compensation; user-replaceable electrodes; 1- or 2-point calibration; clear, easy-to-read display; selectable units of measure for conductivity, TDS and temperature; selectable or auto-raning for conductivity or TDS; HOLD feature locks readings on display; and >200 hour battery life with low battery indicator.

Range - Temperature: 32.0°F to 212.0°F (0.0°C to 99.5°C). **Conductivity:** 0.0 to 1990 µS/cm; 2.00 to 19.90 mS/cm, with manual or auto ranging. **TDS:** 0 to 1000 mg/L; 1.00 to 10.00 g/L. **Resolution - Temperature:** 1°F (0.5°C). **Conductivity:** 5 µS/cm; 0.05 mS/cm. **TDS:** 5 mg/L; 0.05 g/L. **Accuracy - Temperature:** ±1°F (±0.5°C). **Conductivity:** ±1% FS. **TDS:** ±1% FS. **Operating Range:** 32.0°F to 122.0°F (0.0°C to 50.0°C). **Calibration:** 1- or 2-point. **Power:** Four LR44 alkalines (included). **Battery Life:** 200 hours or greater. **Weight (with batteries):** 3.7 oz.

EcoSense EC30A 8 oz.	**76208**	**$137.75**

1 Manufacturer's Warranty 1 Year

a xylem brand

YSI® EcoSense® pH10A

3851

Measures pH and temperature.

The compact pH10A provides fast, accurate pH and temperature measurements. A graphic display provides simple on-screen instructions, and the "hold" feature locks readings on the display. The pen features a 50-set memory (pH, temperature, date and time stamp), automatic temperature compensation, automatic calibration (1-, 2-, or 3-point), and buffer recognition. IP-67 waterproof housing. One-year warranty on the instrument and six-month warranty on the electrode.

Range: Temperature, 0.0°C to 99.9°C (32.0°F to 211.8°F); pH, 0.00 to 14.00 units. **Resolution:** Temperature, 0.1°C (0.2°F); pH, 0.01 units. **Accuracy:** Temperature, ±0.3°C (±0.6°F); pH, ±0.02 units ±1 LSD. **pH temperature compensation:** auto 0.0°C to 99.9°C. **pH buffer recognition:** USA (4.01, 7.00, and 10.01) or NIST (4.01, 6.86, and 9.18). **pH calibration temperature:** 0.0°C to 60°C (0.0°F to 140.0°F). **Operating range:** 0.0°C to 50.0°C (0.0°F to 122.0°F). **Battery:** four LR44 alkaline batteries (included). **Battery life:** approx. 35 hours. **Weight with batteries:** 3.7 oz.

YSI EcoSense pH10A pH/Temperature Pen 8 oz.	**76211**	**$115.00**
Soft Case 9 oz.	**76213**	**$27.55**
Replacement Electrode 2 oz.	**76212**	**$49.40**

1 Manufacturer's Warranty 1 Year

a xylem brand

YSI® EcoSense® ORP15A Meter

4790

Measures ORP and temperature.

Combining accuracy and affordability, this pen-style instrument measures ORP (absolute and relative mV) and temperature. Results are shown on a clear, easy-to-read graphic display that also provides on-screen instructions. The compact instrument features a 50 data-set memory, a hold feature that locks readings on the display, automatic temperature compensation, a low battery indicator, and a user-replaceable electrode. IP-67 waterproof housing. One-year warranty on the instrument and six-month warranty on the electrode.

Range: ORP, -1100 to +1100 mV; Temperature, 14°F to 212°F (-10°C to 100°C). **Accuracy:** ORP, 1mV ±1 LSD; Temperature, ±0.6°F (±0.3°C). **Resolution:** ORP, 1 mV; Temperature, 0.2°F (0.1°C). **Memory:** Non-volatile; 50 sets (absolute or relative ORP, temperature, date and time stamp); erase all data function. **Operating Range:** 32.0°F to 122.0°F (0.0 to 50.0°C). **Power:** Four LR44 alkaline batteries (included). **Battery Life:** 200 hours or greater. **Weight (with batteries):** 3.7 oz.

YSI EcoSense ORP15A Pen 8 oz.	**76228**	**$156.75**
Replacement ORP Electrode 2 oz.	**76227**	**$69.00**
Zobell ORP Calibration Solution, 125 ml 1 oz.	**76316**	**$30.40**

WATER•MARK®

Buffer Solutions and Capsules

6710

Buffer Solutions for pH Meters/Calibration

WaterMark One Pint pH 4.01 Buffer Solution	1 lb.	**76126**	**$8.30**
WaterMark One Pint pH 7.00 Buffer Solution	1 lb.	**76104**	**$8.30**
WaterMark One Pint pH 10.01 Buffer Solution	1 lb.	**76127**	**$8.30**
One Pint pH/ORP Electrode Cleaning Solution	1 lb.	**76681**	**$11.50**
One Pint pH Electrode Storage Solution	1 lb.	**76682**	**$14.75**
pH Electrode Saver Bottle, 1.75″x 1″dia. Accepts pH electrodes up to 12 mm in dia.	1 oz.	**76683**	**$7.25**
pH, ORP, and Conductivity Confidence Solution, 475 mL	1 lb.	**76304**	**$18.40**

Buffer Capsules

One capsule makes 100ml of buffer solution. Sold by the vial (10 capsules per vial).

pH 4 Buffer Capsules, 1 vial/10 capsules per vial	1 oz.	**76117**	**$7.75**
	5+		**$7.25**
pH 7 Buffer Capsules, 1 vial/10 capsules per vial	1 oz.	**76118**	**$7.75**
	5+		**$7.25**
pH 10 Buffer Capsules, 1 vial/10 capsules per vial	1 oz.	**76123**	**$7.75**
	5+		**$7.25**
Demineralized Water, 60 ml	3 oz.	**77777**	**$5.50**
	12+		**$4.95**

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Manufacturer's Warranty 1 Year

Myron L Company Ultrapen™ PT1 Pocket Tester Pen

2944

Measures Conductivity, TDS, Salinity, and Temperature.

Offering reliable, repeatable results, this tester measures conductivity, TDS, salinity, and temperature with the press of a button. The waterproof tester features automatic temperature compensation, autoranging, an anodized aluminum case with UV protective coating, and durable, fully encapsulated electronics. Includes tester (with N Type battery installed), scoop, pocket clip, holster, lanyard, and instructions. One-year warranty from the manufacturer.

Measurement Range: 1 to 9999 µS or ppm (0.0010 to 9.999 ppt salinity). **Accuracy (after wet calibration):** ±1% of reading. **Repeatability:** <1000 µS or ppm ± 1 Count; ≥1000 µS or ppm ±0.3% of reading. **Resolution:** Conductivity and TDS, 0.1 for 1.0 to 99.9 µS or ppm, 1 for 100 to 9999 µS or ppm; Salinity, 0.0001 for 0.0010 to 0.0999 ppt, 0.001 for 0.100 to 9.999 ppt; Temperature, 0.1°C or °F. **Time to Reading Stabilization:** 10 to 20 seconds. **Temperature Measurement Range:** 0 to 71°C or 32°F to 160°F. **Temperature Accuracy Displayed:** ±0.1°C or ±0.2°F. **Temperature Compensation Method:** Automatic to 25°C. **Battery Type:** N Type, alkaline (included). **Operating/Storage Temperature:** 0 to 55°C or 32°F to 131°F. **Water Resistance:** IP67 and NEMA 6. **Dimensions:** 6.75″L x 0.625″ dia. **Weight:** 1.94 oz.

Ultrapen PT1 6 oz.	**76202**	**$157.00**
New! KCl Standard Conductivity Calibration Solution 1 lb.	**76241**	**$29.95**
New! 442 Natural Water™ Standard Solution for Salinity and TDS Calibration, "442" refers to the combination of salts mixed with deionized water to comprise this standard: 40% sodium sulfate, 40% sodium bicarbonate, 20% sodium chloride. 1 lb.	**76250**	**$29.95**

Manufacturer's Warranty 1 Year

Myron L Company Ultrapen™ PT2 Pocket Tester Pen

2945

Measures pH and Temperature

Utilizing a proprietary sensor design, this tester provides a measurement accuracy of ±0.01 pH. The tester features 1-, 2-, and 3-point calibration and also offers two pH measurement modes (hold or live). The waterproof meter features automatic temperature compensation, an anodized aircraft aluminum case with protective coating, and durable, fully encapsulated electronics. Includes tester (with N Type battery installed), scoop, soaker cap, pocket clip, holster, lanyard, and instructions. One-year manufacturer's limited warranty on the tester and six-month limited warranty on the pH sensor.

pH Range: 0.00 to 14.00 pH. **pH Accuracy:** ±0.01 pH (after wet calibration). **pH Repeatability:** ±0.01 pH. **pH Resolution:** 0.01 pH. **Temperature Range:** 0 to 71°C or 32°F to 160°F. **Temperature Accuracy:** ±0.1°C or ±0.1°F. **Temperature Repeatability:** ±0.1°C or ±0.1°F. **Temperature Resolution:** 0.1°C or 0.1°F. **Time to Reading Stabilization:** 10 to 30 seconds. **Temperature Compensation:** Automatic to 25°C. **Battery Type:** N Type, alkaline (included). **Operating/Storage Temperature:** 0 to 55°C or 32°F to 131°F. **Water Resistance:** IP67 and NEMA 6. **Dimensions:** 6.75″L x 0.625″ dia. **Weight:** 1.9 oz.

Ultrapen PT2 6 oz.	**76205**	**$144.00**
Replacement pH Sensor 3 oz.	**76214**	**$56.95**
WaterMark One Pint pH 7.00 Buffer Solution 1 lb.	**76104**	**$8.30**
WaterMark One Pint pH 4.01 Buffer Solution 1 lb.	**76126**	**$8.30**
WaterMark One Pint pH 10.01 Buffer Solution 1 lb.	**76127**	**$8.30**

Manufacturer's Warranty 1 Year

Myron L Company Ultrapen™ PT3 Pocket Tester Pen

2946

Measures ORP and temperature.

Combining a proprietary sensor design and a 99.9% pure platinum electrode, this waterproof tester provides reliable ORP and temperature measurements. The tester features three calibration options with automatic solution recognition and automatic temperature compensation in calibration mode. The anodized aircraft aluminum case with a protective coating ensures durability. Includes tester (with N Type battery installed), scoop, soaker cap, ORP electrode cleaning paper, pocket clip, holster, lanyard, and instructions. One-year manufacturer's limited warranty on the tester and six-month limited warranty on the ORP sensor.

ORP Range: -1000 mV to +1000 mV. **ORP Accuracy:** ±10 mV. **ORP Resolution:** 1 mV ORP. **Temperature Range:** 0 to 71°C or 32°F to 160°F. **Temperature Accuracy:** ±0.1°C or ±0.1°F. **Temperature Repeatability:** ±0.1°C or ±0.1°F. **Temperature Resolution:** 0.1°C or 0.1°F. **Time to Reading Stabilization:** 10 to 45 seconds. **Temperature Compensation:** Automatic in calibration mode from 15°C to 30°C. **Battery Type:** N Type, alkaline (included). **Operating/Storage Temperature:** 0 to 55°C or 32°F to 131°F. **Water Resistance:** IP67 and NEMA 6. **Dimensions:** 6.75″L x 0.625″ dia. **Weight:** 1.78 oz.

Ultrapen PT3 6 oz.	**76215**	**$179.00**
Replacement ORP Sensor 3 oz.	**76216**	**$96.95**
New! ORP Calibration Kit Includes all required solutions and powders for 80mV, 260mV, and 470mV calibration solutions. 1 lb.	**76249**	**$47.50**

Manufacturer's Warranty 1 Year

New! Myron L Company Ultrapen™ PT4 Pocket Tester Pen

4887

Measures free chlorine equivalent and temperature.

Compact and rugged, this waterproof tester measures free chlorine equivalent and temperature. The tester incorporates a proprietary sensor design, automatic temperature compensation, and fully encapsulated electronics. Use pH and ORP standard solutions to calibrate the tester. Includes tester (with N Type battery installed), pH/ORP sensor, scoop, soaker cap, pocket clip, holster, lanyard, ORP electrode cleaning paper, and instructions. One-year manufacturer's limited warranty on the tester and six-month limited warranty on the sensor.

Free Chlorine Range: 0 to 10.0 ppm. **Free Chlorine Accuracy:** <5.00 ppm ±0.3 ppm; ≥5.00 ppm ±0.5 ppm. **Free Chlorine Resolution:** 0.01 ppm. **Temperature Range:** 0 to 71°C or 32°F to 160°F. **Temperature Accuracy:** ±0.1°C or ±0.1°F. **Temperature Resolution:** 0.1°C or 0.1°F. **Temperature Compensation:** Automatic in calibration mode from 15°C to 30°C. **Battery Type:** N Type, alkaline, 1.5V (included). **Operating/Storage Temperature:** 0 to 55°C or 32°F to 131°F. **Water Resistance:** IP67 and NEMA 6. **Dimensions:** 6.75″L x 0.625″ dia. **Weight:** 1.78 oz.

Ultrapen PT4 6 oz.	**76240**	**$269.00**
ORP Calibration Kit Includes all required solutions and powders for 80mV, 260mV, and 470mV calibration solutions. 1 lb.	**76249**	**$47.50**
WaterMark One Pint pH 4.01 Buffer Solution 1 lb.	**76126**	**$8.30**
WaterMark One Pint pH 7.00 Buffer Solution 1 lb.	**76104**	**$8.30**
WaterMark One Pint pH 10.01 Buffer Solution 1 lb.	**76127**	**$8.30**

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Hanna Instruments® DiST® 5 and DiST® 6 EC/TDS/Temperature Testers

4629

These 3-in-1 testers provide reliable conductivity, TDS, and temperature measurements. Testers feature adjustable TDS ratio, automatic temperature compensation with adjustable ß, automatic calibration, HOLD function, stability indicator, and °C or °F temperature measurement.

Replaceable graphite electrode resists contamination from salt deposits in the sample, resulting in increased accuracy. Designed to float, these waterproof testers also feature a battery level indicator, a Battery Error Prevention System, and automatic shut-off.

Accuracy: EC, ±2% F.S.; TDS, ±2% F.S.; Temperature, ±1°F (±0.5°C). **TDS Conversion Factor:** Adjustable from 0.45 to 1.00. **Temperature Compensation:** Automatic, with ß adjustable from 0.0 to 2.4%/°C. **Operating Environment:** 32°F to 122°F (0 to 50°C); RH max 100%. **Battery:** Four 1.5V batteries (included). **Battery Life:** Approximately 100 hours of continuous use, auto-off after 8 minutes of non-use. **Dimensions:** 6.4″ x 1.6″ x 1.0″. **Weight:** 3.5 oz.

DiST 5 EC/TDS/Temperature Tester
For low-range measurement.

Includes tester, EC/TDS probe, probe removal tool, batteries, and instructions.

Range: EC, 0 to 3999 µS/cm; TDS, 0 to 2000 ppm; Temperature, 32°F to 140.0°F (0.0 to 60.0°C). **Resolution:** EC, 1 µS/cm; TDS, 1 ppm; Temperature, 0.1°F (0.1°C). **Calibration:** Automatic, 1 point at 1413 µS/cm or 1382 mg/L (ppm).

Hanna Instruments DiST 5 EC/TDS/Temperature Tester	5 oz.	**76852**	**$95.25**

DiST 6 EC/TDS/Temperature Tester
For high-range measurement.

Includes tester, EC/TDS probe, probe removal tool, batteries, and instructions.

Range: EC, 0.00 to 20.00 mS/cm; TDS, 0.00 to 10.00 ppt; Temperature, 32°F to 140.0°F (0.0 to 60.0°C). **Resolution:** EC, 0.01 mS/cm; TDS, 0.01 ppt; Temperature, 0.1°F (0.1°C). **Calibration:** Automatic, 1 point at 12.88 mS/cm or 6.44 g/L (ppt).

Hanna Instruments DiST 6 EC/TDS/Temperature Tester	5 oz.	**76853**	**$95.00**

Accessories

Replacement Conductivity and TDS Probe for Hanna Instruments DiST Tester	1 oz.	**76854**	**$48.95**
Replacement Batteries; six 1.5V Alkaline	2 oz.	**76206**	**$16.75**

Hanna Instruments® pH/Conductivity/TDS Low-Range and High-Range Testers

4630

Waterproof and designed to float, these testers provide accurate pH, conductivity, TDS, and temperature measurements. Results are shown on an easy-to-read LCD display, and the pH electrode cartridge features an extendable cloth junction to help ensure long life. Both the EC/TDS conversion factor and the temperature compensation coefficient (ß) are user-selectable. These rugged meters also feature an EC/TDS graphite electrode, automatic temperature compensation, automatic one-point or two-point pH calibration, HOLD function, automatic shut-off, simple two-button operation, and switchable °F/°C readout. Battery percentage is displayed during startup, and the Battery Error Prevention System guards against inaccurate measurements. Includes tester, replaceable pH electrode, electrode removal tool, batteries, and instructions.

Accuracy: pH, ±0.05 pH; EC/TDS, ±2% F.S.; Temperature, ±1°F (±0.5°C). **Temperature Compensation:** pH, automatic; EC/TDS, automatic with ß adjustable from 0.0 to 2.4%/°C. **TDS Conversion Factor:** Adjustable from 0.45 to 1.00. **Operating Environment:** 32°F to 122°F (0 to 50°C), RH max 100%. **Battery:** Four 1.5V batteries (included). **Battery Life:** Approximately 100 hours of continuous use, auto-off after 8 minutes of non-use. **Dimensions:** 6.4″ x 1.6″ x 1.0″. **Weight:** 3.5 oz.

Hanna Instruments® pH/Conductivity/TDS Low-Range Tester
For low-range EC measurement.

Range: pH, 0.00 to 14.00 pH; EC, 0 to 3999 µS/cm; TDS, 0 to 2000 ppm; Temperature, 32°F to 140.0°F (0.0 to 60.0°C). **Resolution:** pH, 0.01 pH; EC, 1 µS/cm; TDS, 1 ppm; Temperature, 0.1°F (0.1°C). **Calibration:** pH, automatic, 1 or 2 points with 2 sets of memorized buffers (pH 4.01/7.01/10.01 or 4.01/6.86/9.18); EC/TDS, automatic, 1 point at 1413 µS/cm or 1382 mg/L (ppm).

Hanna Instruments pH/Conductivity/ TDS Low-Range Tester	5 oz.	**76855**	**$149.95**

Hanna Instruments® pH/Conductivity/TDS High-Range Tester
For high-range EC measurement.

Range: pH, 0.00 to 14.00 pH; EC, 0.00 to 20.00 mS/cm; TDS, 0.00 to 10.00 ppt; Temperature, 32°F to 140.0°F (0.0 to 60.0°C). **Resolution:** pH, 0.01 pH; EC, 0.01 mS/cm; TDS, 0.01 ppt; Temperature, 0.1°F (0.1°C). **Calibration:** pH, automatic, 1 or 2 points with 2 sets of memorized buffers (pH 4.01/7.01/10.01 or 4.01/6.86/9.18); EC/TDS, automatic, 1 point at 12.88 mS/cm or 6.44 g/L (ppt).

Hanna Instruments pH/Conductivity/ TDS High-Range Tester	5 oz.	**76856**	**$149.95**

Accessories

Replacement pH Electrode	1 oz.	**76857**	**$48.95**
Replacement Batteries; six 1.5V Alkaline	2 oz.	**76206**	**$16.75**

Hanna Instruments® pHep® 4 and pHep® 5 pH/Temperature Testers

4632

Rugged and reliable, these testers measure pH as well as temperature (in °C or °F). The waterproof testers are designed to float and offer automatic temperature compensation, automatic calibration, a HOLD function, efficient two-button operation, and a stability indicator. In addition to automatic shut-off that conserves battery power, the testers display battery percentage during startup and feature and a Battery Error Prevention System. Includes tester, pH electrode, electrode removal tool, batteries, and instructions.

pH Calibration: Automatic, at 1 or 2 points with 2 sets of standard buffers (pH 4.01/7.01/10.01 or pH 4.01/6.86/9.18). **Temperature Compensation:** Automatic. **Battery:** Four 1.5V batteries (included). **Battery Life:** Approximately 300 hours of continuous use, auto-off after 8 minutes of non-use. **Operating Environment:** 23°F to 122°F (-5°C to 50°C), RH max 100%. **Dimensions:** 6.4″ x 1.6″ x 1.0″. **Weight:** 3.5 oz.

Hanna Instruments® pHep® 4 pH/Temperature Tester

Range: pH, -2.0 to 16.0 pH; Temperature, 23.0°F to 140.0°F (-5.0°C to 60.0°C). **Resolution:** pH, 0.1 pH; Temperature, 0.1°F (0.1°C). **Accuracy at 20°C:** pH, ±0.1 pH; Temperature, ±1°F (±0.5°C).

Hanna Instruments pHep 4 pH/Temperature Tester	5 lbs.	**76858**	**$83.95**

Hanna Instruments® pHep® 5 pH/Temperature Tester

Range: pH, -2.00 to 16.00 pH; Temperature, 23.0°F to 140.0°F (-5.0°C to 60.0°C). **Resolution:** pH, 0.01 pH; Temperature, 0.1°F (0.1°C). **Accuracy at 20°C:** pH, ±0.05 pH; Temperature, ±1°F (±0.5°C).

Hanna Instruments pHep 5 pH/Temperature Tester	5 oz.	**76859**	**$89.95**

Accessories

Replacement pH Electrode	1 oz.	**76857**	**$48.95**
Replacement Batteries; six 1.5V Alkaline	2 oz.	**76206**	**$16.75**

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Oakton® Waterproof EcoTestr™
8675

Economical and easy to use! The crystal clear, ergonomically designed display allows you to view measurements easily and the waterproof, dustproof housing is ideal for use in dirty and damp field conditions. Simply dip and read - the orientation of the display means there's no need to turn your head or tilt the tester. Hold function locks in measured value. Auto-off function preserves batteries.

EcoTestr™ EC
Durable, two-pin stainless steel sensor is chemical-resistant and features a probe guard.

Calibration: 1 point push-button. **Range:** Low, 0 to 1990 µS/cm; High, 0 to 19.90 mS/cm. **Resolution:** Low, 10 µS; High, 0.1 mS. **Accuracy:** Low, ±1% full scale; High, ±1% full scale (±2% above 10 mS/cm). **Temperature Compensation:** Automatic. **Power:** Four 1.5 V alkaline batteries (included). **Battery Life:** >500 hours continuous use. **Dimensions:** 6-1/2″ x 1-1/2″ x 1-1/4″. **Weight:** 3.25 oz.

EcoTestr EC LOW 5 oz.	**76418**	**$61.95**
EcoTestr EC HIGH 5 oz.	**76419**	**$61.95**
Replacement Batteries; six 1.5V Alkaline 2 oz.	**76206**	**$16.75**

EcoTestr™ Salt
This salinity meter utilizes a durable two-pin stainless steel sensor that is chemical-resistant and features a probe guard.

Calibration: 1 point push-button. **Range:** 0 to 10.00 ppt. **Resolution:** 0.1 ppt. **Accuracy:** ±1% full scale (±2% above 5 ppt). **TDS Factor:** Fixed curve. **Temperature Compensation:** Automatic. **Power:** Four 1.5 V alkaline batteries (included). **Battery Life:** >500 hours continuous use. **Dimensions:** 6-1/2″ x 1-1/2″ x 1-1/4″. **Weight:** 3.25 oz.

EcoTestr Salt 5 oz.	**76103**	**$66.95**
Replacement Batteries; six 1.5V Alkaline 2 oz.	**76206**	**$16.75**

EcoTestr™ TDS
Durable, two-pin stainless steel sensor is chemical-resistant and features a probe guard.

Calibration: 1 point push-button. **Range:** Low, 0 to 1990 ppm; High, 0 to 10.1 ppt. **Resolution:** Low, 10 ppm; High, 0.1 ppt. **Accuracy:** Low, ±1% full scale; High, ±1% full scale (±2% above 5 ppt). **TDS Factor:** 0.4 to 1.0 (adjustable). **Temperature Compensation:** Automatic. **Power:** Four 1.5 V alkaline batteries (included). **Battery Life:** >500 hours continuous use. **Dimensions:** 6-1/2″x 1-1/2″x 1-1/4″. **Weight:** 3.25 oz.

EcoTestr TDS LOW 5 oz.	**76403**	**$60.75**
EcoTestr TDS HIGH 5 oz.	**76404**	**$61.95**
Replacement Batteries; six 1.5V Alkaline 2 oz.	**76206**	**$16.75**

EcoTestr™ pH 2
The sensor features a large volume of polymer gel reference to provide a long, clog-free sensor lifespan.

Calibration: ≤3 points at pH 4.0, 7.0, or 10.0. **Range:** 0.0 to 14.0 pH. **Resolution:** 0.1 pH. **Accuracy:** ±0.1 pH. **Temperature Compensation:** Automatic. **Power:** Four 1.5 V alkaline batteries (included). **Battery Life:** 250 hours continuous use. **Dimensions:** 6-1/2″ x 1-1/2″ x 1-1/4″. **Weight:** 3.25 oz.

EcoTestr pH 2 6 oz.	**76164**	**$63.50**

Waterproof Conductivity Pen
3870

Easy to use, this professional waterproof conductivity tester features a double junction replaceable electrode, an IP67 waterproof casing, and automatic temperature compensation.

Range: 1-1999 µS/cm. **Resolution:** 1µS/cm. **Accuracy:** ±2% Full scale. **Calibration:** Manual 1 point. **Temperature Compensation:** Automatic 0°C to 50°C. **Battery:** three 1.5V. **Battery Life:** 250 hours of continuous use.

Waterproof Conductivity Pen	12 oz.	**76220**	**$60.50**
Conductivity Calibration Solution, 84 µS, one pint	1 lb.	**76107**	**$12.50**
WaterMark Conductivity Calibration Solution, 1,413 µS, one pint	1 lb.	**76115**	**$10.95**
WaterMark Conductivity Calibration Solution, 12,880 µS, one pint	1 lb.	**76116**	**$11.70**

Waterproof pH 55 Tester
3869

An economical pH/°C tester for heavy-duty applications!

Accurate waterproof pH/°C tester has a double junction replaceable pH glass electrode which allows it to be used in heavy-duty applications such as waste water treatment and agriculture. The tester is housed in an IP67 waterproof case and features automatic temperature compensation and auto shut-off after 8 minutes.

Operating Environment: -5° - 60°C/100% RH. **pH: Range:** -2.0 - 16.0 pH. **Resolution:** 0.1 pH. **Accuracy:** ±0.1 pH. **Calibration:** Automatic, 1 or 2 points. **Temperature: Range:** -5.0° - 60.0°C. **Resolution:** 0.1°C. **Accuracy:** ±1°C. **Battery:** three 1.5V. **Battery Life:** 200 hours of continuous use.

Waterproof pH 55 Tester	12 oz.	**76219**	**$56.75**
One Pint pH Electrode Storage Solution	1 lb.	**76682**	**$14.75**
WaterMark One Pint pH 4.01 Buffer Solution	1 lb.	**76126**	**$8.30**
WaterMark One Pint pH 7.00 Buffer Solution	1 lb.	**76104**	**$8.30**
WaterMark One Pint pH 10.01 Buffer Solution	1 lb.	**76127**	**$8.30**

Note: pH Electrode Storage Solution (SN 76682, sold separately) is needed to condition and activate the probe before use.

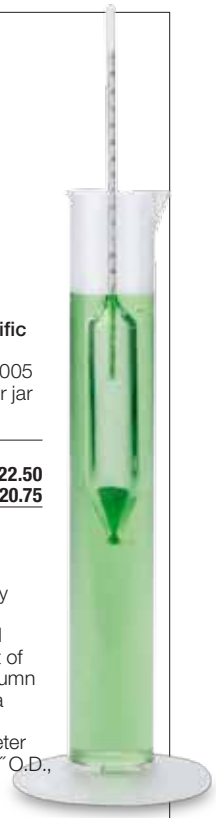
Specific Gravity Hydrometer
6707

Designed to measure ratio density of liquid at 60°F to the density of water at 60°F. **Specific gravity range:** 1.000 to 1.070. **Graduations:** 0.0005 with ±0.005 accuracy. Requires hydrometer jar (53630), sold separately.

Specific Gravity Hydrometer 4 oz.	**76370**	**$22.50**
10+		**$20.75**

Hydrometer Jar
5310

For use with the specific gravity hydrometer. Transparent, one-piece jar resists chemicals and has an upper temperature limit of 135°C. Polymethylpentene column with polypropylene base. Extra broad base for added stability. Can also be used as a lactometer cylinder. Measures 14-1/2″H, 2″O.D., 500 ml capacity.



Hydrometer Jar	5 oz.	**53630**	**$28.50**
	6+		**$26.95**

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Buffer Solutions and Capsules
6710

WaterMark One Pint pH 4.01 Buffer Solution 1 lb.	**76126**	**$8.30**
WaterMark One Pint pH 7.00 Buffer Solution 1 lb.	**76104**	**$8.30**
WaterMark One Pint pH 10.01 Buffer Solution 1 lb.	**76127**	**$8.30**
One Pint pH/ORP Electrode Cleaning Solution 1 lb.	**76681**	**$11.50**
One Pint pH Electrode Storage Solution 1 lb.	**76682**	**$14.75**
pH Electrode Saver Bottle 1.75″ x 1″ dia. Accepts pH electrodes up to 12 mm in dia. 1 oz.	**76683**	**$7.25**
pH, ORP, and Conductivity Confidence Solution, 475 mL 1 lb.	**76304**	**$18.40**

Buffer Capsules

One capsule makes 100ml of buffer solution. Sold by the vial.

pH 4, 1 vial/10 capsules per vial 1 oz.	**76117**	**$7.75**
5+		**$7.25**
pH 7, 1 vial/10 capsules per vial 1 oz.	**76118**	**$7.75**
5+		**$7.25**
pH 10, 1 vial/10 capsules per vial 1 oz.	**76123**	**$7.75**
5+		**$7.25**

OAKTON INSTRUMENTS

Oakton® pH Calibration Singles
3290

Easy calibration!

Labeled with Temperature vs. pH reference tables for accurate calibration no matter what the meter's calibration capabilities are, and they are certified traceable to NIST Standard Reference Materials. Singles are packed 20 pouches to a box.

pH Rinse Water Pouches 1 lb.	**76458**	**$32.70**
20 ml Pouches, pH 4.01 1 lb.	**76459**	**$32.70**
20 ml Pouches, pH 7.00 1 lb.	**76460**	**$32.70**
20 ml Pouches, pH 10.00 1 lb.	**76461**	**$32.70**
20 ml Pouches, Assortment of 20 pouches containing 5 each of pH 4, 7, 10 calibration solutions and rinse water 1 lb.	**76462**	**$32.70**

OAKTON INSTRUMENTS

Oakton® pH Spear Waterproof Tester
3836

Designed for penetration of soft solids and semi-solids!

Tough spear tip glass and open pore sensor ensures stable and accurate readings of ±0.01 pH. **Features include:** a large dual display screen, self-diagnostic messages, non-volatile memory, Hold and Auto-off functions, microprocessor-based, waterproof, and user-replaceable double-junction sensors.

Calibration: up to 3 points; selectable buffers, USA – pH 4.01, 7.00, 10.01; NIST – pH 4.01, 6.86, 9.18. **Range:** -1 to 15 pH. **Resolution:** 0.01. **Accuracy:** ±0.01. **Operating temperature:** 0°C to 50°C. **Power:** Battery, Four 1.5V "A 76" Micro Alkaline (included); Life, More than 500 hours. **Dimensions:** 6.5″L x 1.5″Dia. **Weight:** 3 oz.

Oakton pH Spear Waterproof Tester 7 oz.	**76800**	**$303.75**
Replacement Tip 4 oz.	**76801**	**$190.95**
Forestry Suppliers Lanyard 1 oz.	**30000**	**$2.95**

OAKTON INSTRUMENTS

Oakton® Double Junction Waterproof pHTestr® 10, 20 & 30
3752

Easy to read display provides results at a glance!

Designed for use in dirty water, heavy sulfides, tris buffers, and organics, these double junction pHTestrs provide accurate, reliable results. The pH electrode is easy to replace, and the increased reference gel volume assures long electrode life. The large LCD display shows mode, automatic temperature compensation, and battery level. The pHTestr 30 also displays temperature in °C or °F in addition to pH. The IP67-certified housing is waterproof, dustproof, and floats. Three-point (USA or NIST) push-button calibration with buffer recognition, non-volatile EEPROM memory, hold function, and auto-off function.

pHTestr 10 and pHTestr 20

Calibration: ≤3 points at pH 4.01, 7.00 or 10.01. **Range:** -1.0 to 15.0 pH. **Resolution:** pHTestr 10: 0.1 pH; pHTestr 20: 0.01 pH. **Accuracy:** pHTestr 10: ±0.1 pH; pHTestr 20: ±0.01 pH. **Operating temperature:** 32°F to 122°F (0°C to 50°C). **Temperature compensation:** Automatic. **Power:** four 1.5V alkaline button cell batteries. **Battery life:** >500 hours. **Dimensions:** 6-1/2″L x 1-1/2″ dia. **Weight:** 3 oz.

Oakton pHTestr 10 8 oz.	**76421**	**$96.95**
Oakton pHTestr 20 8 oz.	**76422**	**$106.50**

Oakton® pHTestr 30

Calibration: ≤3 points at pH 4.01, 7.00 or 10.01. **Range:** -1.0 to 15.0 pH; 32°F to 122°F (0°C to 50°C). **Resolution:** 0.01 pH; 0.1°F/°C. **Accuracy:** ±0.01 pH; ±0.9°F (±0.5°C). **Operating temperature:** 32°F to 122°F (0°C to 50°C). **Temperature compensation:** Automatic. **Power:** four 1.5V alkaline button cell batteries. **Battery life:** >500 hours. **Dimensions:** 6-1/2″L x 1-1/2″ dia. **Weight:** 3 oz.

Oakton pHTestr 30 8 oz.	C **76423**	**$117.50**

Accessories & Replacement Parts

Replacement pH Electrode 2 oz.	**76830**	**$71.50**
Forestry Suppliers Lanyard 1 oz.	**30000**	**$2.95**

OAKTON INSTRUMENTS

Oakton® Waterproof ORPTestr™ 10
3296

Fast, accurate readings in the -999 to +1,000mV range.

These meters are microprocessor based with a large surface area platinum band sensor. Features include push button offset adjust for keypad adjustment of the reading ±150mV to standardize the tester, "hold" button so you can retain a reading until it can be logged, auto-off after 8-1/2 minutes, and self diagnosis error messages which indicate low battery and over/under range conditions.

Calibration: offset up to ±150 mV. **Range:** -999 to +1,000mV. **Resolution:** 5mV. **Accuracy:** ±5mV. **Operating temperature:** 32°F to 122°F (0°C to 50°C). **Power:** Four 1.4V batteries (included). **Battery life:** 250 hours, continuous use.

Oakton Waterproof ORPTestr 10 7 oz.	**76091**	**$196.95**
Replacement Electrode for 76091 2 oz.	**76092**	**$94.95**
Zobell ORP Calibration Solution, 125 ml 1 oz.	**76316**	**$30.40**
Forestry Suppliers Lanyard 1 oz.	**30000**	**$2.95**

Portable Calibration Kit
6712

For Use with All Oakton® pHTestr Models

Includes sample jar, 8 assorted pH and single calibration pouches in a foam-lined carrying case.

Portable Calibration Kit 2 lbs.	**76100**	**$44.50**
Replacement Batteries; six 1.5V Alkaline 2 oz.	**76206**	**$16.75**

LaMotte

LaMotte Demineralized Water
7508

Flip-top cap for easy pouring. 60 ml Bottle.

Demineralized Water, 60 ml 3 oz.	**77777**	**$5.50**
12+		**$4.95**

C Combination English and Metric

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OAKTON®

Oakton® Waterproof Multi-Parameter Testrs™

8524

Obtain multiple measurements using these convenient pocket-sized meters!

Ideal for water, wastewater, laboratory, or plant use, these multi-parameter Testrs feature long-life pH electrodes with a wide range of sample compatibility. The Testrs feature up to five-point pH calibration with NIST or USA autobuffer recognition. Conductivity, TDS, and salinity parameters feature autoranging based on the concentration of your sample. Pin-style conductivity sensors have stainless steel electrodes for outstanding chemical resistance and durability. Replaceable sensors allow you to reuse the meter body without compromising the waterproof and dustproof protection. Other advanced features include push-button calibration, HOLD function, auto-shutoff, user-adjustable temperature coefficient, and low-battery indicator. Case, batteries, and lanyard included.

PCTestr™ 35 – Measures conductivity, pH, and temperature.

Range: pH, 0.0 to 14.0; Conductivity, 0 to 1999 µS, 2.00 to 20.00 mS; Temperature, 32°F to 122°F (0°C to 50°C). **Resolution:** pH, 0.1; Conductivity, 1 µS, 0.01 mS; Temperature, 0.1°F (0.1°C). **Accuracy:** pH, ±0.1; Conductivity, ±1% full scale; **Temperature:** ±0.9°F (±0.5°C). **Calibration:** pH, Up to 5 points (auto-recognition); Conductivity, 2 auto, 2 manual; Temperature compensation, Automatic and manual. Conductivity temperature coefficient, 0.0 to 100%/°C. **Junction:** Single. **Display:** LCD. **Power:** 4 x 1.5 V A76 button cell (included). **Battery life:** >150 hours. **Low battery indicator:** Yes. **Operating temperature:** 32°F to 122°F (0°C to 50°C). **Dimensions:** 6-1/2″L x 1-1/2″dia.

PCTestr 35	7 oz.	**76530**	**$139.95**

PTTestr™ 35 – Measures TDS, pH, and temperature.

Range: pH, 0.0 to 14.0; TDS, 0 to 999 ppm, 1.00 to 10.00 ppt (Maximum TDS range based on TDS factor of 0.5); Temperature, 32°F to 122°F (0°C to 50°C). **Resolution:** pH, 0.1; TDS, 1 ppm, 0.01 ppt; Temperature, 0.1°F (0.1°C). **Accuracy:** pH, ±0.1; TDS, ±1% full scale; Temperature, ±0.9°F (±0.5°C). **Calibration:** pH, Up to 5 points (auto-recognition); **Temperature compensation:** Automatic and manual. **Junction:** Single. **Display:** LCD. **Power:** 4 x 1.5 V A76 button cell (included). **Battery life:** >150 hours. **Low battery indicator:** Yes. **Operating temperature:** 32°F to 122°F (0°C to 50°C). **Dimensions:** 6-1/2″L x 1-1/2″dia.

PTTestr 35	8 oz.	**76531**	**$139.95**

PCSTestr™ 35 – Measures conductivity, TDS, salinity, pH, and temperature.

Range: pH, 0.0 to 14.0; Conductivity, 0.0 to 199.9 µS, 200 to 1999 µS, 2.00 to 20.00 mS; TDS, 0.0 to 99.9 ppm, 100 to 999 ppm, 1.00 to 10.00 ppt (Maximum TDS range based on TDS factor of 0.5); Salinity, 0.0 to 99.9 ppm, 100 to 999 ppm, 1.00 to 10.00 ppt, 0.0 to 1.00%; **Temperature:** 32°F to 122°F (0°C to 50°C). **Resolution:** pH, 0.1; Conductivity, 0.1 µS, 1 µS, 0.01 mS; TDS, 0.1 ppm, 1 ppm, 0.01 ppt; Salinity, 0.1 ppm, 1 ppm, 0.01 ppt, 0.01%; Temperature, 0.1°F (0.1°C). **Accuracy:** pH ±0.1; Conductivity, ±1% full scale; TDS, ±1% full scale; Salinity, ±1% full scale; Temperature, ±0.9°F (0.5°C). **Calibration:** pH, Up to 5 points (auto-recognition); Conductivity, 3 auto, 3 manual; TDS, Up to 3 (manual); Temperature compensation, Automatic and manual; Conductivity temperature coefficient, 0.0 to 100%/°C. **Junction:** Double. **Display:** LCD. **Power:** 4 x 1.5 V A76 button cell (included). **Battery life:** >150 hours. **Low battery indicator:** Yes. **Operating temperature:** 32°F to 122°F (0°C to 50°C). **Dimensions:** 6-1/2″L x 1-1/2″dia.

PCSTestr 35	8 oz.	**76533**	**$167.25**

Replacement Sensor for 35 Series

Replacement Sensor for 35 Series	2 oz.	**76532**	**$81.95**
Forestry Suppliers Lanyard	1 oz.	**30000**	**$2.95**

OAKTON®

Oakton® Waterproof Dual-Range TDSTestr 11 and ECTestr 11

7041

With replaceable electrode and push-button calibration.

The Valox® housing and stainless steel electrodes provide excellent chemical compatibility and durability. Because the electrodes are replaceable, the meter body can be reused many times without losing waterproof and dustproof protection. Additional features include a HOLD function, automatic temperature compensation, auto shutoff, and low-battery indicator.

TDSTestr 11

Range: 0 to 2000 ppm; 0 to 10.00 ppt. **Resolution:** 10 ppm; 0.10 ppt. **Calibration:** 1 pt. push button. **Accuracy:** ±1% full-scale (of range). **Temperature:** Operating, 32°F to 122°F (0°C to 50°C); Compensation, Automatic. **Battery:** Power, (4) 1.5V batteries (included); Life, >150 hrs. **Dimensions:** 6.5″L x 1.5″dia.

TDSTestr 11 8 oz.		**76452**	**$85.50**

ECTestr 11

Range: 0 to 2000 µS; 0 to 20.00 mS. **Resolution:** 10 µS; 0.10 mS. **Calibration:** 1 pt. push button. **Accuracy:** ±1% full-scale (of range). **Temperature:** Operating, 32°F to 122°F (0°C to 50°C); Compensation, Automatic. **Battery:** Power, (4) 1.5V batteries (included); Life, >150 hrs. **Dimensions:** 6.5″L x 1.5″dia.

ECTestr 11 8 oz.		**76354**	**$86.95**

Accessories

Replacement Electrode 2 oz.		**76432**	**$51.50**
Replacement Batteries; six 1.5V Alkaline 2 oz.		**76206**	**$16.75**
Forestry Suppliers Lanyard 1 oz.		**30000**	**$2.95**

Turbidity Meters page 344

WATER•MARK®

WaterMark pH/ Conductivity Calibration Kit

7498

Contains one pH 4 buffer, one pH 7 buffer, one pH 10 buffer and one Conductivity 1,413 µS buffer. Each bottle contains 500 ml of buffer.

WaterMark Calibration Kit 5 lbs.		**76128**	**$29.75**

Conductivity Calibration Solutions

6708

Single Pouches

Convenient calibration solution pouches contain 20 ml of calibration solution. Pouches are airtight for maximum freshness. Twenty pouches per box. NIST traceable materials. **Accuracy:** ±1% at 25°C.

447 µS Single 1 lb.		**76684**	**$29.50**
1,413 µS Single 1 lb.		**76685**	**$29.50**
2,764 µS Single 1 lb.		**76686**	**$34.50**
15,000 µS Single 1 lb.		**76687**	**$29.50**

WaterMark® Pints

NIST traceable materials. **Accuracy:** ±1% at 25°C.

447.1 µS, one pint 1 lb.		**76105**	**$10.85**
1,413 µS, one pint 1 lb.		**76115**	**$10.95**
2,764 µS, one pint 1 lb.		**76218**	**$9.95**
12,880 µS, one pint 1 lb.		**76116**	**$11.70**

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1 Manufacturer's Warranty 1 Year

EXTECH INSTRUMENTS

Extech® ExStik® II pH/ Conductivity Meter

4424

Five measurement parameters in one compact meter.

Measure conductivity, TDS, salinity, pH, and temperature using only one electrode with this rugged, waterproof meter! Nine units of measure are available: pH, µS, mS, ppm, ppt, mg/L, g/L, °C, and °F. An analog bar graph indicates measurement trends, and the meter's memory stores up to 25 labeled readings. The RENEW feature alerts you when the electrode needs to be replaced. The meter also features adjustable conductivity to TDS ratio from 0.4 to 1.0, 0.5 fixed salinity ratio, auto power off, and low battery indicator. Waterproof to IP67. Included with the meter are an electrode, protective sensor cap, sample cup with cap, four 1.5V SR44W batteries, and a 48″ neck strap. One year manufacturer's warranty.

Range: Conductivity, 0 to 199 µS, 200 to 1,999 µS, 2.00 to 19.99 mS; TDS/Salinity, 0 to 99.9 ppm (mg/L), 100 to 999 ppm (mg/L), 1.00 to 9.99 ppt; pH, 0.00 to 14.00 pH; Temperature, 32°F to 149°F (0°C to 65°C). **Maximum resolution:** Conductivity, 0.1 µS; TDS/Salinity, 0.1 ppm (mg/L); pH, 0.01 pH; Temperature, 0.1°F/°C. **Basic accuracy:** Conductivity, ±2% FS; TDS/Salinity, ±2%FS; pH, ±0.01 pH; **Temperature:** ±1.8°F/1°C. **Memory:** 25 data sets. **Weight:** 3.8 oz. **Dimensions:** 1.4″x 7.3″x 1.6″.

ExStik II pH/Conductivity Meter 8 oz.	**76060**	**$159.99**
Replacement pH/Conductivity Cell Module 2 oz.	**76061**	**$64.99**

Note: Fluoride and chlorine meters are available. Call for details.

1 Manufacturer's Warranty 1 Year

EXTECH INSTRUMENTS

Extech® ExStik® II Dissolved Oxygen Meter

4423

Obtain and store up to 25 data sets of dissolved oxygen and temperature measurements with this waterproof meter. Oxygen level readings can be displayed as % saturation or concentration (mg/L [ppm]), and an analog bar graph indicates trends. The meter also features adjustable altitude compensation (0 to 20,000 ft. in 1,000 ft. increments), self-calibration, adjustable salinity compensation from 0 to 50 ppt, data hold, auto power off, and low battery indicator. Waterproof to IP67. Meter comes complete with dissolved oxygen electrode, protective sensor cap, spare membrane cap, electrolyte, four 1.5V SR44W batteries, and a 48″ neck strap. One year manufacturer's warranty.

Range: Dissolved oxygen (saturation mode), 0 to 200.0%; Dissolved oxygen (concentration mode), 0 to 20.00ppm (mg/L); Temperature, 32°F to 122°F (0°C to 50°C). **Maximum resolution:** Dissolved oxygen (saturation mode), 0.1%; Dissolved oxygen (concentration mode), 0.01ppm (mg/L); Temperature, 0.1°F/°C. **Basic accuracy:** Dissolved oxygen (saturation mode), 1.5% FS; Dissolved oxygen (concentration mode), 0.3ppm (mg/L); Temperature, ±1.8°F (1°C). **Weight:** 3.8 oz. **Dimensions:** 1.4″x 6.9″x 1.6″.

ExStik II Dissolved Oxygen Meter 8 oz.	**76055**	**$249.99**
ExStik II Dissolved Oxygen Kit – Includes meter, electrode, cap, membrane kit, 16′ cable, probe guard, batteries, 48″ neckstrap, and carrying case 2 lbs.	**76059**	**$369.99**
Membrane Kit – Includes six membrane caps, 15ml filling solution, and polishing paper. 4 oz.	**76058**	**$69.99**

1 Manufacturer's Warranty 1 Year

EXTECH INSTRUMENTS

Extech® ExStik® Waterproof pH Pen

4061

Durable flat surface electrode works in liquids, semi-solids, and soil for on-the-spot measurements!

This multi-application pH pen features a large, 3-1/2 digit digital display with a bar graph which fluctuates to show changes in a particular reading. Fifteen readings can be stored and recalled, and the last calibrated value is saved. The pen also displays temperature. Other features include data validation indicators that show the reading is stabilized, data hold for current reading, automatic shut-off, and low battery alert. The waterproof design floats and the rubberized housing provides a sure, non-slip grip. One year manufacturer's warranty. Comes complete with meter and pH electrode, protective sensor cap, sample cup, four LR44 button batteries, and neckstrap.

Range: 0.00 to 14.00. **Resolution:** 0.01. **Accuracy:** 0.01. **Temperature range:** 23°F to 194°F (-5°C to 90°C).

ExStik pH Pen 7 oz.	**76225**	**$99.99**
Replacement pH Module 1 oz.	**76226**	**$44.99**

Conductivity Calibration Solutions page 337

EXTECH INSTRUMENTS

Extech® ExStik® Conductivity/TDS/ Salinity Meter

2347

Ideal for use in waste, boiler, cooling, pure, and drinking water.

This waterproof, autoranging meter uses the same high accuracy, multi-range conductivity cell to test water over three ranges. Conductivity, TDS, or salinity can be simultaneously displayed along with temperature. An analog bar graph indicates sample trends, and the meter's internal memory can store and recall up to 15 readings. Other features include automatic temperature compensation of 2% per °C, adjustable conductivity to TDS ratio factor from 0.4 to 1.0, self-calibration on power up, data hold, auto shut-off, low battery indicator, and a large 3-1/2 digit (2,000 count) digital display. The meter comes compete with conductivity cell, protective sensor cap, sample cup with cap, four SR44W button batteries, and 48″ neckstrap.

Range: Conductivity, 0 to 199.9 µS, 0 to 1,999 µS, 0 to 19.99 mS; TDS, 0 to 99.9 ppm (mg/L), 0 to 999 ppm (mg/L), 0 to 9.99 ppt (g/L); Salinity, 0 to 99.9 ppm (mg/L), 0 to 999 ppm (mg/L), 0 to 9.99 ppt (g/L); Temperature, 32°F to 149°F (-5°C to 65°C). **Maximum resolution:** Conductivity, 0.1 µS, 1 µS, 0.01 mS; TDS, 0.1 ppm (mg/L), 1 ppm (mg/L), 0.01 ppt (g/L); Salinity, 0.1 ppm (mg/L), 1 ppm (mg/L), 0.01 ppt (g/L); Temperature, 0.1°. **Basic accuracy:** Conductivity, ±2% FS; TDS, ±2% FS; Salinity, ±2% FS; Temperature, ±1.8°F/1°C. **Power:** four SR44W button batteries (included). **Dimensions:** 1.4″ x 6.8″ x 1.6″. **Weight:** 3.8 oz.

ExStik Conductivity/TDS/Salinity Meter 7 oz.	**76035**	**$104.99**
Replacement Conductivity Electrode 1 oz.	**76036**	**$41.99**

Accessories and Solutions for Extech ExStik Pens

Conductivity Calibration Solution

84 µS, one pint 1 lb.	**76107**	**$12.50**
447.1 µS, one pint 1 lb.	**76105**	**$10.85**
1,413 µS, one pint 1 lb.	**76115**	**$10.95**
12,880 µS, one pint 1 lb.	**76116**	**$11.70**

Single Pouches, Box of 20

447 µS Single 1 lb.	**76684**	**$29.50**
1,413 µS Single 1 lb.	**76685**	**$29.50**
2,764 µS Single 1 lb.	**76686**	**$34.50**
15,000 µS Single 1 lb.	**76687**	**$29.50**

Buffer Solutions

WaterMark One Pint pH 4.01 Buffer Solution 1 lb.	**76126**	**$8.30**
WaterMark One Pint pH 7.00 Buffer Solution 1 lb.	**76104**	**$8.30**
WaterMark One Pint pH 10.01 Buffer Solution 1 lb.	**76127**	**$8.30**

Accessories

Forestry Suppliers Lanyard 1 oz.	**30000**	**$2.95**

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OAKTON INSTRUMENTS

Oakton® pH 5+ and pH 6+ Meters with Probe

7881

These accurate, reliable pH meters are ideal for taking routine pH and temperature measurements. Choose either the pH 5+ or pH 6+ meter – the pH 6+ meter also reads millivolts for taking ORP measurements. Features of both meters include a large LCD, a splash-resistant membrane keypad, easy access connections for BNC electrode and temperature sensor, auto buffer recognition, three-point pH calibration, temperature readout and automatic temperature compensation, hold function, and auto-off function. Each meter comes with a pH electrode and temperature probe, and they can be used with most pH and ORP electrodes with BNC connectors. Protective rubber boot included.

Display: Single Custom LCD. **Auto Shut-Off:** After 17 minutes. Operating Temp.: 32°F to 122°F (0°C to 50°C). Temp. **Compensation:** Automatic Temperature Compensation (ATC) Fixed 2% per °C factor. **Power:** Four AAA alkaline batteries (supplied) >60 hours continuous use. **Dimensions:** 5.5″ x 2.7″ x 1.3″ unit only; 9.25″ x 6.5″ x 3.0″ boxed. **pH 5+ – Range:** 0.00 to 14.00 pH; 0.0 to 100.0°C. **Resolution:** 0.01 pH; 0.1°C. **Accuracy:** ±0.01 pH; ±0.5°C. **Calibration:** Up to 3 Buffer Values (pH 4.01, 7.00; 10.0). **pH 6+ – Range:** 0.00 to 14.00 pH; 0.0 to 100.0°C; -1000 to +1000 mV. **Resolution:** 0.01 pH; 0.1°C; 1 mV. **Accuracy:** ±0.01 pH; ±0.5°C; ±2 mV. **Calibration:** Up to 3 Buffer Values (pH 4.01, 7.00; 10.0); Offset 0.1°C increments; ±20 mV.

Oakton pH 5+ 1 lb.	M	**76072**	**$266.25**
Oakton pH 6+ 1 lb.	M	**76073**	**$297.25**
Replacement pH Electrode, epoxy body, single junction 4 oz.		**76069**	**$48.95**
ORP Probe 5 oz.		**76507**	**$79.50**

OAKTON INSTRUMENTS

Oakton® DO 6+ Dissolved Oxygen Meter with Probe

4789

Test water quality in wastewater, surface water, groundwater, or drinking water with this rugged, compact meter! Dissolved oxygen and temperature measurements are shown on the large LCD display. The galvanic probe's design allows you to take measurements immediately without any warm-up needed. Key in salinity and pressure values manually, and the meter then calculates the offset value for greater accuracy. Independent 100% and zero adjustment calibrations ensure high accuracy over the entire measuring range. You can also calibrate the meter to a known work standard or titrimetrically-determined value. Electrode slope, zero offset, and millivolt values are displayed to inform you when the electrode needs to be serviced. The meter features a built-in stand and a protective rubber boot that helps to prevent damage if the meter is dropped. Includes meter, dissolved oxygen probe with 3′ cable, electrolyte solution, replacement membrane cap, and batteries.

Range: 0.00 to 20.00 mg/L (ppm), 0.0 to 200.0%, -5.0°C to 105.0°C. **Resolution:** 0.01 mg/L (ppm), 0.1%, 0.1°C. **Accuracy:** ±1.5% full-scale, ±0.5°C. **Temperature Compensation:** Automatic from 0 to 50°C. **Salinity Correction:** Range, 0.0 to 50.0 ppt; Resolution, 0.1 ppt; Method, key in manually for meter calculated correction. **Barometric Pressure Correction:** Range, 500 to 1499 mm Hg; Resolution, 1 mm Hg; Method, key in manually for calculated correction. **Operating Temperature:** 32°F to 122°F (0 to 50°C). **Power:** Four 1.5V AAA batteries (included). **Battery Life:** >700 hours continuous use. **Dimensions:** 5-1/2″L x 2-3/4″W x 1-1/4″H. **Weight:** 1 lb.

DO 6+ Meter with Probe 2 lbs.	M	**76076**	**$528.25**

M Metric

OAKTON INSTRUMENTS

Oakton® CON 6+ Conductivity Meter with Probe

7880

Perfect for taking routine conductivity and temperature measurements quickly! The large LCD gives you a clear reading and warns of low-battery conditions or calibration errors. Microprocessor-based, the CON 6+ features all push-button operation with no trimpots to adjust, automatic or manual ranging across five ranges, five-point calibration, selectable cell constant, temperature readout and automatic temperature compensation, hold function, and auto-off function. Amber-cased probe with cleanable bands included.

Range: 0 to 20.0µS; 0 to 200.0µS; 0 to 2,000µS; 0 to 20.00mS; 0 to 200.0 mS; -10.0°C to 110.0°C. **Resolution:** 0.01µS; 0.1 µS; 1 µS; 0.01mS; 0.1mS; 0.1°C. **Accuracy:** ±1% full scale; ±0.5°C. **Calibration: 1 to 5 points (push button:** 1 point per range). **Display:** Single Custom LCD; **Auto Shut-Off:** After 17 minutes; **Operating Temperature:** 32°F to 122°F (0°C to 50°C); **Temperature Compensation:** automatic or manual from 0.0°C to 50.0°C; **Temperature Coefficient:** adjustable from 0 to 3% per °C; **Power:** Four AAA alkaline batteries (supplied) >100 hours continuous use; **Dimensions:** 5.5″x 2.7″x 1.3″ unit only; 9.25″x 6.5″x 3.0″ boxed.

CON 6+ Meter with Probe 1 lb.	M	**76071**	**$343.50**

OAKTON INSTRUMENTS

Oakton® SALT 6+ Meter with Probe

7882

Ideal for monitoring salt levels in brines and aquaculture systems, this meter provides accurate, wide ranging salinity measurements. The custom conductivity-to-TDS conversion curve ensures the highest possible accuracy. The meter also features automatic temperature compensation, easy push button operation, hold function, and automatic shutoff after 20 minutes of no use. A protective rubber boot protects the meter from drops and features a built-in stand. Fast response probe and 4 AAA batteries also included.

Range: Salinity, 0 to 50.0 ppt, 0.1% to 5.00%; Temperature, -10.0°C to 110.0°C. **Resolution:** Salinity, 0.1 ppt, 0.01%; Temperature, 0.1°C. **Accuracy:** Salinity, ±1% full scale; Temperature, ±0.5°C. **Calibration points:** one point in 1 to 50 ppt range. **Cell constant:** 1.0. **Power:** 4 AAA batteries (included). **Battery life:** approx. 100 hours continuous use. **Dimensions:** 5.5″x 2.7″x 1.3″.

SALT 6+ Meter with Probe 1 lb.	M	**76074**	**$343.50**
4487 ppm NaCl, 8974 µS (micro (mu)), One Pint 1 lb.		**76106**	**$12.95**

Oakton® Waterproof pH Meters
pages 335 & 336

Oakton® Waterproof TDSTestr 11 & ECTestr 11
page 337

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New! Oakton® Waterproof DO 450 Meter with Probe

3941

Uses optical measurement technology for fast response times and long-term stability with minimal maintenance. Automatic temperature compensation (ATC), barometric pressure compensation, and salinity correction are also used to further ensure measurement accuracy. The large, backlit LCD lets you view % saturation or mg/L (ppm) simultaneously with temperature. Rugged, IP67-rated waterproof housing for plant or field testing. Additional features include ready (stability) indicator, smart averaging, hold function, calibration alarm, and battery-life indicator. Perform data logging with manual or timed collection of up to 500 data sets with real-time clock time/date stamp.

Measures: Dissolved oxygen, °C/°F. **% saturation Range:** 0.0 to 200.0%. **% saturation Resolution:** 0.1%. **% saturation Accuracy:** ±2.0% full scale. **mg/l (ppm) Range:** 0.00 to 20.00 mg/l (ppm). **mg/l (ppm) Resolution:** 0.1 mg/l (ppm). **mg/l (ppm) Accuracy:** ±2.0% full scale. **Temperature Range:** -10.0 to 110.0°C. **Temperature Resolution:** 0.1°C. **Temperature Accuracy:** ±0.5°C. **Temperature Calibration:** Offset 0.1° increments. **ATC:** Automatic or manual. **Memory:** Up to 500 data sets. **Real Time Clock:** Yes. **Salinity correction – Range:** 0.0 to 45.0 ppt; **Resolution:** 0.1 ppt; **Method:** Key in manually and automatic correction. **Barometric pressure correction – Range:** 500 to 1499 mm Hg; **Resolution:** 1 mm Hg; **Method:** Key in manually and automatic correction. **Optional AC Power:** Yes. **Dual Display:** Yes. **Waterproof/Dustproof (IP67):** Yes. **Dimensions:** 7-7/8" x 3-1/8" x 2-1/4" (20 x 8.3 x 5.7 cm). **Shipping weight:** 1.4 lb (0.6 kg).

Oakton RDO 450 Meter with Probe	1 lb.	**76162**	**$1100.00**
Protective Case for 450 Meters	1 lb.	**76167**	**$50.50**
Replacement RDO Sensor Cap	1 lb.	**76163**	**$107.95**
Replacement RDO probe with 10ft cable	1 lb.	**76165**	**$669.00**

New! Oakton® Waterproof pH/DO 450 Meter with probes

3942

The pH/DO 450 meter uses optical measurement technology offering fast response times and long-term stability with minimal maintenance. Plus the automatic temperature compensation (ATC), barometric pressure compensation, and salinity correction further ensure measurement accuracy. The large, backlit LCD lets you view pH, ISE, mV, % saturation, or mg/L (ppm) simultaneously with temperature. Rugged, IP67-rated waterproof housing makes the meter ideal for plant or field testing. Additional features include ready (stability) indicator, smart averaging, hold function, calibration alarm, and battery-life indicator. Perform data logging with manual or timed collection of up to 500 data sets with real-time clock time/date stamp.

Measures: pH, mV, DO, C/F. **pH Range:** -2.00 to 16.00. **pH Resolution:** 0.01. **pH Accuracy:** +/-0.01. **pH Calibration:** 6 points; USA, NIST, DIN, PWB, and custom buffers. **mV Range:** +/- 2000. **mV Resolution:** 0.1 to 1. **mV Accuracy:** +/-0.2 to 2 mV. **mV Calibration:** Offset available. **% saturation Range:** 0 to 200%. **% saturation Resolution:** 0.1. **% saturation Accuracy:** +/- 2%. **mg/l (ppm) Range:** 0 to 20 mg/L. **mg/l (ppm) Resolution:** 0.1. **mg/l (ppm) Accuracy:** +/- 2%. **Salinity correction:** Manual 0 to 45. **Barometric pressure correction:** Manual correction. **Temperature Range:** -10°C to 110°C. **Temperature Resolution:** 0.01. **Temperature Accuracy:** +/-0.5. **Temperature Calibration:** offset available. **ATC:** Automatic and manual. **Power:** 2 AA batteries, or optional power supply. **Memory:** 500 data sets. **Real Time Clock:** Yes. **RS-232:** Yes and USB. **Optional AC Power:** Yes. **Dual Display:** Yes. **Waterproof/Dustproof (IP67):** Yes. **Dimensions:** 7-7/8″ x 3-1/8″ x 2-1/4″ (20 x 8.3 x 5.7 cm). **Shipping weight:** 1 lb. (0.5 kg).

Oakton pH/DO 450 Meter with probes	1 lb.	**76166**	**$1585.00**
Replacement RDO probe with 10ft cable	1 lb.	**76165**	**$669.00**
Protective Case for 450 Meters	1 lb.	**76167**	**$50.50**
Replacement RDO Sensor Cap	1 lb.	**76163**	**$107.95**
Replacement pH electrode for pH/DO 450	1 lb.	**76176**	**$108.95**

New! Oakton® Waterproof pH/CON 450 Meter with Combination Probe

3943

The pH/CON 450 meter offers a rugged, waterproof housing, making it ideal for use in the field or in the lab. Large, backlit LCD lets you view the main measurement simultaneously with temperature. Calibrate pH with up to six points from USA, NIST, DIN, PWB, and custom pH buffer sets. Autocal feature for conductivity has one calibration point per range. ATC ensures measurement accuracy even in fluctuating temperatures. Meter features include ready (stability) indicator, smart averaging, user-selectable C/F units, hold function, calibration alarm, battery life-indicator, and electrode status. Perform data logging with manual or timed collection of up to 500 data sets with real-time clock time/date stamp.

Measures: pH, mV, Conductivity, TDS, Salinity, °C/°F. **pH Range:** -2.00 to 16.00 pH. **pH Resolution:** 0.01 pH. **pH Accuracy:** ±0.01 pH. **pH Calibration:** 6 points - USA, NIST, DIN, PWB and custom buffers. **mV Range:** +/- 2000. **mV Resolution:** 0.1 to 1 mV. **mV Accuracy:** ±0.2 ±2 LSD or +/-5% of reading; whichever is greater. **mV Calibration:** ±200 mV. **Conductivity Range:** 0 to 200 mS. **Conductivity Resolution:** 0.01 µS to 0.1 mS. **Conductivity Accuracy:** ±1% full scale. **Conductivity Calibration:** One point per range. **TDS Range:** 0 to 200 ppt. **TDS Resolution:** 0.01 ppm to 0.1 ppt. **TDS Accuracy:** ±1% full scale. **TDS Calibration:** One point per range. **Temperature Range:** -10.0 to 110.0°C. **Temperature Resolution:** 0.1°C. **Temperature Accuracy:** ±0.5°C. **Temperature Calibration:** offset 0.1°C increments. **ATC:** Automatic or manual. **Power:** 2 AA batteries, or optional power adapter. **Memory:** 500 data sets. **Real Time Clock:** Yes. **RS-232:** Yes and USB. **Optional AC Power:** Yes. **Dual Display:** Yes. **Waterproof/Dustproof (IP67):** Yes. **Dimensions:** 7-7/8″ x 3-1/8″ x 2-1/4″ (20 x 8.3 x 5.7 cm). **Shipping weight:** 1.4 lbs. (0.6 kg).

Oakton Waterproof pH/CON 450 Meter with Combination Probe	1 lb.	**76168**	**$799.00**
Protective Case for 450 Meters	1 lb.	**76167**	**$50.50**
Replacement Combination Probe for pH/CON 450	1 lb.	**76169**	**$227.00**
Replacement Conductivity Cell K=1.0	1 lb.	**76170**	**$135.00**

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OAKTON INSTRUMENTS

Oakton® Hand-Held Conductivity/TDS Meter

3312

Performs all the functions of the regular Oakton® conductivity meter, plus additional functions regarding total dissolved solids.

This advanced meter simultaneously displays TDS and temperature or conductivity and temperature, ranges for TDS readings automatically, and is able to store one TDS calibration point along with five conductivity calibration points. Selectable read outs as ppm and ppt, or as mg/l and g/l. Probe is 12 mm in diameter and has a 3´ cable. Waterproof, dustproof model with IP67 rating.

Calibration: up to five points (one point per range). **Conductivity range:** 0.00 to 19.99 µS, 0.0 to 199.9 µS, 0 to 1,999 µS, 0.00 to 19.99mS, 0.0 to 199.9 mS. **Temperature range:** 0°C to 100°C. **TDS Range:** 0.00 to 9.99 ppm, 10.0 to 99.9 ppm, 100 to 999 ppm, 1.00 to 9.99 ppt, 10.0 to 99.9 ppt, 100 to 200 ppt. **Conductivity accuracy:** ±1%FS. **Temperature accuracy:** ±0.5°C. **TDS Accuracy:** 1%FS. **Conductivity resolution:** 0.01 µS, 0.1 µS, 1 µS, 0.01 mS, 0.1 mS. **Temperature resolution:** 0.1°C. **TDS Resolution:** 0.01 ppm, 0.1 ppm, 1 ppm, 0.01 ppt, 0.1 ppt, 1 ppt. **Display:** dual LCD display. **Power:** Four AAA Batteries. **Battery life:** >100 hours continuous use. **Operating temperature:** 0°C to 50°C. **Temperature compensation:** automatic or manual (selectable) from 0 to 50°C. **Dimensions:** 7.5˝L x 3.75˝W x 2.25˝H. **Weight:** 1 lb.

Oakton Waterproof Hand-Held Conductivity/ TDS Meter	M	2 lbs.	**76269**	**$579.50**
Calibration Kit – Includes four each of TDS "Singles" calibration solution pouches 447 µS, 1,413 µS, 2,764 µS, and 15.0 mS; four rinse water pouches; one rinse bottle; three sample bottles; and a hard plastic carrying case		4 lbs.	**76217**	**$102.75**
AAA cell Alkaline Batteries, pack of 4		2 oz.	**02362**	**$3.25**

New! Oakton pH 450 meter with Probe

3944

Ideal for any environment, the pH 450 meter offers an IP67-rated waterproof housing. The large, backlit LCD lets you view the main measurement simultaneously with temperature and calibration data with % slope. Calibrate pH and ISE with up to six points from USA, NIST, DIN, PWB and custom pH buffers. Automatic temperature compensation (ATC) ensures measurement accuracy even in fluctuating temperatures. Select temperature reading from degree C or degree F to suit your application. Meter features include ready (stability) indicator, smart averaging, hold function, calibration alarm (visible), battery-life indicator, and electrode status. Perform data logging with manual or timed collection of up to 500 data sets with real-time clock time/date stamp.

Measures: pH, ISE, mV, °C/F. **pH Range:** -2.00 to 16.00 pH. **pH Resolution:** 0.01 pH. **pH Accuracy:** ±0.01 pH. **pH Calibration:** 6 points - USA, NIST, DIN, PWB, custom buffers. **mV Range:** +/- 2000 mV. **mV Resolution:** 0.1 to 1 mV. **mV Accuracy:** ±0.2 mV ± 2 LSD or ±5% of reading; whichever is greater. **mV Calibration:** ± 200 mV. **Ion Range:** 0.0 to 19999. **Ion Resolution:** 0.01. **Ion Accuracy:** ±0.5% ful-scale (monovalent); ±1.0% full-scale (divalent). **Ion Calibration:** Up to 6 points. **Temperature Range:** -10.0 to 100.0°C. **Temperature Resolution:** 0.1°C. **Temperature Accuracy:** ±0.1°C. **Temperature Calibration:** Offset 0.1°C increments. **ATC:** Automatic or manual. **Power:** Two AA batteries. **Memory:** 500 data sets with calibration. **RS-232:** Yes, and USB Optional. **AC Power:** Yes. **Dual Display:** Yes. **Waterproof/Dustproof (IP67):** Yes. **Dimensions:** 7-7/8˝ x 3-1/8˝ x 2-1/4˝ (20 x 8.3 x 5.7 cm). **Shipping weight:** 1 lb. (0.5 kg).

Protective Case for 450 Meters	1 lb.	**76167**	**$50.50**
Oakton pH 450 Meter with Probe	1 lb.	**76172**	**$605.00**
Grip Clip Probe Holder	1 lb.	**76171**	**$20.20**
Replacement Electrode	6 oz.	**76695**	**$102.95**

DESKTOP. TABLET. MOBILE.
THE NEW FORESTRY-SUPPLIERS.COM

OAKTON INSTRUMENTS

Oakton® PCD650 pH/ Conductivity/Dissolved Oxygen Meter Kit

8350

Expanded range, resolution, and accuracy, plus increased memory and advanced communications! This multiparameter meter measures conductivity (up to 500 mS), TDS, salinity, or resistivity with either a 2-or 4-electrode conductivity cell. Linear or pure-water temperature compensation curve provides accurate data at all levels of conductivity. Also features set point alarms to indicate when concentrations are outside of programmed limits. Determines oxygen saturation up to 600% and concentration up to 90 mg/L. The galvanic dissolved oxygen probe does not require any warm-up time so you can take readings immediately. Salinity correction is automatically compensated for after manual input of concentration. Barometric pressure is automatically compensated for by the included barometer. Other features include an IP67-rated housing for use in dirty and wet environments without harm to the meter; capable of datalogging up to 500 points either automatically, manually, or at timed intervals; user-selectable "calibration due" alarms, automatic or manual standards recognition, and single or multiple calibration points; infrared (IrDA) wireless technology lets you easily download data; and the large backlit LCD shows the measured value, measured units, temperature, time, battery life, and menu options.

Range: pH - -2.000 to 19.990; mV - ±2000; Ion - 0.001 to 19,900 ppm, molar, or mg/L; Conductivity - 0 to 500 mS; TDS - 0 to 200 ppm; % saturation - 0 to 600%; mg/l (ppm) - 90 mg/L; Temperature - 14 to 230°F (-10 to 110°C). **Resolution:** pH - 0.1, 0.01, 0.001; mV - 0.1; Ion - 2 or 3 digits; Conductivity - 0.05% full scale; TDS - 0.05% full scale; % saturation - 0.1%; mg/l (ppm) - 0.01 mg/L; Temperature - 0.1°F to 199.9 F; 1.0°F from 200 to 230°F. **Accuracy:** pH - ±0.002; mV - ±0.2; Ion - 0.5% FS (monovalent); 1% FS (divalent); Conductivity - ±1% full scale; TDS - ±1% full scale; % saturation - ±2%; mg/l (ppm) - ±0.2mg/L; Temperature - ±0.9°F (±0.5°C). **Calibration:** pH - US, DIN, NIST and Custom buffers; mV - ±150;Ion - Up to 6 points; Conductivity - Manual up to 5 points (1 per range); automatic up to 4 points (84.0 iS/cm; 1413 iS/cm; 12.88 mS/cm, 111.8 mS/cm); % saturation - 2 points; mg/l (ppm) - 2 points; Temperature - Offset 0.1°C (0.1°F) increments. **Salinity correction:** Manual. **Barometric pressure correction:** Automatic. **ATC:** Automatic or manual, 0 to 100°C. **Power:** Four 1.5V batteries (included) or optional universal AC adapter. **Memory:** 500 data sets with GLP. **Real Time Clock:** Yes. **RS-232:** IrDA. **Optional AC Power:** Yes. **Waterproof/ Dustproof (IP67):** Yes. **Dimensions:** 7.25˝L x 3.25˝W x 2.25˝H.

Oakton PCD650 Meter Kit	7 lbs.	**76243**	**$2013.95**

M Metric

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EXTECH INSTRUMENTS

Extech Oyster™ Portable pH/Conductivity/TDS/ORP/Salinity Kit

3282

For use as a benchtop meter or in the field!

Exclusive, rugged design is ideal for use in the lab or in the field. The large, dual LCD is built into the adjustable "flip-up" cover. It is microprocessor-based with splash-proof housing and front panel tactile touch pad to slope and calibrate. Other features include a memory function that stores and recalls 25 labeled readings; an automatic temperature compensation for Conductivity/TDS via thermistor built into the conductivity cell; and a manual temperature compensation for pH (0 to 100°C). The complete kit includes a mini pH electrode, a thermistor probe, sample buffers, a polymer conductivity cell, 9V battery, neckstrap, and carrying case.

Range: pH, 0.01-14.00; Conductivity, 10 to 19,990 µS/cm; TDS, 10 to 1,990ppm (mg/L); ORP, -1500mV to 1500mV; Salinity, 0 to 10.00ppt; Temperature, 32.0°F to 194.0°F (0.0°C to 90.0°C). **Accuracy:** pH, 0.02; Conductivity, ±2%FS; TDS, ±2%FS; ORP, ±3mV; Salinity, ±2%FS; Temperature, ±2°F/1°C. **Temperature Compensation:** Conductivity and TDS, automatic; pH, manual. **Power:** operates on one 9V battery (included). **Dimensions:** 3.7″ x 4.2″ x 2″.

Oyster Portable pH/Conductivity/TDS Kit	M	3 lbs.	**76820**	**$479.99**
Replacement Conductivity Probe		5 oz.	**76821**	**$84.99**
Replacement pH Electrode		3 oz.	**76848**	**$37.99**

HANNA instruments

Hanna Instruments® Portable Dissolved Oxygen Meter

4633

This water-resistant meter measures dissolved oxygen up to 300% saturation or 45 ppm (mg/L) with automatic temperature compensation and automatic calibration. The meter allows for altitude compensation up to 4,000 meters and salinity compensation up to 80 g/L. The polarographic probe has a removable protective membrane cover. In addition, the meter features a low battery indicator, Good Laboratory Practice (GLP) functions, and auto endpoint to automatically freeze the display when a stable reading is reached. On-screen tutorial messages make operation easy. Includes meter, probe with 4 meter (13.1′) cable, two spare membranes, 30 mL electrolyte solution, batteries, rugged carrying case, and instructions.

Range: 0.00 to 45.00 ppm, 0.0 to 300.0%, 0.0 to 50.0°C. **Resolution:** 0.01 ppm, 0.1%, 0.1°C. **Accuracy:** ±1.5% of full scale or ±1 digit, whichever is greater; ±0.2°C excluding probe error. **Calibration:** Automatic, in air, at 100%. **Temperature Compensation:** Automatic, 0 to 50°C (32°F to 122°F). **Altitude Compensation:** 0 to 4,000 m (13,120′), 100 m (328′) resolution. **Salinity Compensation:** 0 to 80 g/L (1 g/L resolution). **Battery:** Three AAA batteries (included). **Battery Life:** Approximately 200 hours of continuous use without backlight. **Operating Environment:** 0 to 50°C (32°F to 122°F); RH max 95% non-condensing. **Dimensions:** 7.3″ x 2.8″ x 1.4″. **Weight:** 10.6 oz.

Hanna Instruments Portable Dissolved Oxygen Meter	3 lbs.	**76870**	**$489.95**
Replacement Membranes for DO Probe, Includes five ready-to-use replacement PTFE membranes.	1 oz.	**76869**	**$62.00**
AAA cell Alkaline Batteries, pack of 4	2 oz.	**02362**	**$3.25**

76405

76426

Hach® miniLab pH Meters

6578

Measure samples as small as one drop!

Compact and durable, these pH meters provide stable readings in just seconds. The sensors are virtually unbreakable, store dry, and need no maintenance. Clean up after dirty samples is simple using a toothbrush and detergent. Each pH meter retains calibration after shut off and also features automatic temperature compensation, pH stabilization algorithm, and ATC algorithm. Improved Electro-Static Discharge (ESD) protection eliminates E06, E07, and pH 14.00 errors related to ESD. An improved reference module design allows for a smaller sample volume for calibration and measurement. Other quality features include automatic power off and a large, easy-to-read LCD display. The complete system includes pH meter, case, calibrating buffers, and an instruction manual. IP67 waterproof enclosure rating.

Hach miniLab H130

pH Range: pH 2.0 to pH 12.0. **Resolution:** 0.1 pH. **Accuracy:** ±0.1 pH. **Calibration:** 1-point. **Operating temperature range:** 5°C to 40°C. **Power:** Two 3v lithium batteries. **Battery life:** 200 hours continuous use. **Dimensions:** 5-1/2″L x 1-1/8″W x 5/8″H. **Weight:** 1.5 oz.

miniLab H130 pH Meter	7 oz.	**76405**	**$212.00**
WaterMark One Pint pH 7.00 Buffer Solution	1 lb.	**76104**	**$8.30**

Hach miniLab H138

Includes all the features of the miniLab H130 plus these additional enhanced features: resolution of 0.01 pH, accuracy of ±0.02 pH, temperature is displayed, automatic buffer recognition of pH 4, 7, and 10, and up to three point calibration (pH 4, 7, and 10).

pH Range: pH 2.00 to pH 12.00. **Resolution:** 0.01 pH. **Accuracy:** ±0.02 pH. **Calibration:** 1-, 2-, or 3-point. **Operating temperature range:** 5°C to 40°C. **Power:** Two 3v lithium batteries. **Battery life:** 200 hours continuous use. **Dimensions:** 5-1/2″L x 1-1/8″W x 5/8″H. **Weight:** 1.5 oz.

miniLab H138 pH Meter	9 oz.	**76426**	**$314.00**

Hach® H160 pH Meter Starter Kit

2449

Rugged and reliable, this meter measures pH, mV, temperature (°C or °F), and ORP. The meter's stainless steel pH probe with non-glass ISFET sensor stores dry, eliminating the need for storage solutions. The meter offers up to five-point pH calibration and automatic buffer recognition (1.68, 4.01, 6.86, 7.00, 9.18, 10.01, 12.45). Measurements are shown on a large LCD display with LED backlight. IP67 waterproof, chemical-resistant, dust-resistant, floating enclosure. Includes meter, non-glass pH probe, holster, carrying case, buffers, and standardizing solutions.

Range: 0.00 to 14.00 pH; auto-ranging ±199.9 mV to ±1,999 mV; 0 to 100°C. **Resolution:** 0.01 pH; auto-ranging 0.1 mV and 1 mV; 0.1°C/°F. **Accuracy:** ±0.01 pH; ±0.1 mV; ±0.5°C. **Power:** 4 AA batteries. **Battery Life:** Up to 200 hours continuous operation. **Dimensions:** 3.5″W x 8″H x 2″D.

Hach H160 pH Meter Starter Kit	3 lbs.	**76456**	**$949.00**

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HANNA instruments

Hanna Instruments® Model 9829 Series Multiparameter Water Quality Meters

4703

Combining a multiparameter probe with field-replaceable sensors, this versatile, waterproof meter measures pH, ORP, conductivity, dissolved oxygen, temperature, resistivity, TDS, salinity, seawater specific gravity, and atmospheric pressure (measured for dissolved oxygen compensation). The meter can also be customized with the addition of ion selective electrodes (ISE) that measure common surface water contaminants. Choose from ammonium, chloride, or nitrate ISE sensors (each sold separately). The microprocessor-based logging probe ensures reliable data collection. The meter's logging memory holds up to 44,000 records (continuous automatic logging or log-on-demand of all parameters), and measurements are shown on a large, backlit graphical display that also allows for full configuration of each parameter. Data can be plotted on the meter and also downloaded to a PC. The meter features a logging interval range from one second to three hours, Fast Tracker™ Tag Identification System to associate measurements with particular locations where iButtons® have been installed, password protection, GLP (Good Laboratory Practice) feature with the last five calibrations recorded, and USB connectivity. Includes meter, multiparameter probe, calibration solution, calibration beaker, probe maintenance kit, four rechargeable C cell Ni-MH batteries, power adapter with cable, 12V vehicle outlet adapter, five iButtons with holders, USB interface cable, Windows®-compatible software, instruction manual, and rugged carrying case.

Range: Temperature, 23.00°F to 131.00°F (-5.00°C to 55.00°C, 268.15 K to 328.15 K); pH, 0.00 to 14.00 pH; ORP, ±2000.0 mV; Dissolved Oxygen, 0.0 to 500.0%, 0.00 to 50.00 mg/L; Conductivity, 0 to 200 mS/cm (absolute EC up to 400 mS/cm); Resistivity, 0 to 999999 Ω•cm, 0 to 1000.0 kΩ•cm, 0 to 1.0000 MΩ•cm; TDS, 0 to 400000 mg/L or ppm (maximum value depends on the TDS factor); Salinity, 0.00 to 70.00 PSU (extended Practical Salinity Scale); Seawater Sigma, 0.0 to 50.0; Atmospheric Pressure, 450 to 850 mmHg, 17.72 to 33.46 inHg, 600.0 to 1133.2 mbar, 8.702 to 16.436 psi, 0.5921 to 1.1184 atm, 60.00 to 113.32 kPa. **Resolution:** Temperature, 0.01°F (0.01 °C, 0.01 K); pH, 0.01 pH; ORP, 0.1 mV; Dissolved Oxygen, 0.1%, 0.01 mg/L; Conductivity - Manual, 1 µS/cm, 0.001 mS/cm, 0.01 mS/cm, 0.1 mS/cm, 1 mS/cm; Automatic, 1 µS/cm from 0 to 9999 µS/cm, 0.01 mS/cm from 10.00 to 99.99 mS/cm, 0.1 mS/cm from 100.0 to 400.0 mS/cm; Automatic mS/cm, 0.001 mS/cm from 0.000 to 9.999 mS/cm, 0.01 mS/cm from 10.00 to 99.99 mS/cm, 0.1 mS/cm from 100.0 to 400.0 mS/cm; Resistivity, Depending on resistivity reading; TDS - Manual, 1 mg/L (ppm), 0.001 g/L (ppt), 0.01 g/L (ppt), 0.1 g/L (ppt), 1 g/L (ppt); Automatic, 1 mg/L (ppm) from 0 to 9999 mg/L (ppm), 0.01 g/L (ppt) from 10.00 to 99.99 g/L (ppt), 0.1 g/L (ppt) from 100.0 to 400.0 g/L (ppt); Automatic g/L (ppt), 0.001 g/L (ppt) from 0.000 to 9.999 g/L (ppt), 0.01 g/L (ppt) from 10.00 to 99.99 g/L (ppt), 0.1 g/L (ppt) from 100.0 to 400.0 g/L (ppt); Salinity, 0.01 PSU; Seawater Sigma, 0.1; Atmospheric Pressure, 0.1 mmHg, 0.01 inHg, 0.1 mbar, 0.001 psi, 0.0001 atm, 0.01 kPa. **Accuracy:** Temperature, ±0.27°F (±0.15°C, ±0.15 K); pH, ±0.02 pH; ORP, ±1.0 mV; Dissolved Oxygen, 0.0 to 300.**0%:** ±1.5% of reading or ±1.0% whichever is greater; 300.0 to 500.**0%:** ±3% of reading 0.00 to 30.**00 mg/L:** ±1.5% of reading or 0.10 mg/L whichever is greater; 30.00 mg/L to 50.**00 mg/L:** ±3% of reading; Conductivity, ±1% of reading or ±1 µS/cm whichever is greater; TDS, ±1% of reading or ±1 mg/L (ppm) whichever is greater; Salinity, ±2% of reading or ±0.01 PSU whichever is greater; Seawater Sigma, ±1; Atmospheric Pressure, ±3 mmHg within ±15°C from the temperature during calibration. **Temperature Compensation:** Automatic from 23°F to 131°F (-5°C to 55°C). **Waterproof Protection:** Meter, IP67; Probe, IP68. **Battery:** 4 rechargeable C cell Ni-MH batteries (included) or 4 alkaline C cell batteries (not included). **Dimensions:** 8.7″ x 4.5″ x 2.2″. **Weight:** 26.5 oz.

New! Model 9829 pH/ORP/Conductivity/Dissolved Oxygen Meter

Model 9829 pH/ORP/Conductivity/Dissolved Oxygen Meter with 4m Cable	5 lbs.	**76901**	**$2500.00**
Model 9829 pH/ORP/Conductivity/Dissolved Oxygen Meter with 10m Cable	5 lbs.	**76902**	**$2600.00**

New! Model 9829 pH/ORP/Conductivity/Dissolved Oxygen Meter with GPS

Equipped with a built-in GPS receiver and antenna, this meter allows you to track measurements from specific locations with detailed coordinate information that can be viewed on the display.

Model 9829 pH/ORP/Conductivity/Dissolved Oxygen Meter with GPS with 4m Cable	5 lbs.	**76903**	**$3000.00**
Model 9829 pH/ORP/Conductivity/Dissolved Oxygen Meter with GPS with 10m Cable	5 lbs.	**76904**	**$3100.00**

Model 9829 pH/ORP/Conductivity/Dissolved Oxygen/Turbidity Meter

This versatile meter also features an autonomous logging probe and measures turbidity. **Turbidity Range:** 0.0 to 99.9 FNU, 100 to 1000 FNU. Turbidity Resolution: 0.1 FNU from 0.0 to 99.9 FNU, 1 FNU from 100 to 1000 FNU. **Turbidity Accuracy:** ±0.3 FNU or ±2% of reading whichever is greater.

Model 9829 pH/ORP/Conductivity/Dissolved Oxygen/ Turbidity Meter with 4m Cable	15 lbs.	**76880**	**$3500.00**
Model 9829 pH/ORP/Conductivity/Dissolved Oxygen/ Turbidity Meter with 10m Cable	15 lbs.	**76881**	**$3600.00**
EC/Turbidity Sensor Module	1 lb.	**76892**	**$601.00**

Accessories

Multiparameter Probe Maintenance Kit, Includes electrolyte solution for DO sensor, five O-rings for DO sensor, small brush, five O-rings for probe, and syringe with grease to lubricate the O-rings. Not for use with Models that measure turbidity.	1 lb.	**76905**	**$153.00**
Ammonium ISE, Range: 0.02 to 200.0 ppm. Resolution: 0.01 ppm to 1 ppm, 0.1 ppm to 200.0 ppm. Accuracy: ±5% of reading or 2 ppm.	1 lb.	**76883**	**$355.00**
Chloride ISE, Range: 0.6 to 200.0 ppm. Resolution: 0.01 ppm to 1 ppm, 0.1 ppm to 200.0 ppm. Accuracy: ±5% of reading or 2 ppm.	1 lb.	**76884**	**$350.00**
Nitrate ISE, Range: 0.62 to 200.0 ppm. Resolution: 0.01 ppm to 1 ppm, 0.1 ppm to 200 ppm. Accuracy: ±5% of reading or 2 ppm.	1 lb.	**76885**	**$355.00**
DO Sensor Module	1 lb.	**76888**	**$312.00**
EC Sensor Module	1 lb.	**76889**	**$290.00**
pH Sensor Module	1 lb.	**76893**	**$203.00**
pH/ORP Sensor Module	1 lb.	**76897**	**$290.00**

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LaMotte

New! LaMotte® Model 2020wi Portable Turbidity Meter

3321

Ideal for use in regulatory monitoring, process water testing, and environmental water analysis in the field or laboratory. Utilizing an 860nm LED as a light source, this meter measures the amount of light scattered at right angles from a beam of light passing through a test sample. Meets design criteria for quantitative methods of turbidity using optical turbidimeters as specified by ISO 7027. Supplied with sample bottle; four optically selected sample vials with screw caps; 0.0, 1.0, and 10.0 NTU standards; instruction manual; Lithium ion rechargeable battery; wall charger; and carrying case.

Range: 0 to 4,000 Formazin Nephelometric Units (FNUs). **Units of Measure:** FNU, FAU, ASBC, EBC. **Accuracy:** ±2%. **Response Time:** <2 seconds. **Serial Interface:** RS232. **Power:** Lithium ion rechargeable battery and wall charger. **Dimensions:** 7.5″ x 3.5″ x 2.5″.

Model 2020wi	9 lbs.	**77053**	**$923.75**

LaMotte

LaMotte® Model 2020we Portable Turbidity Meter

3321

A valuable tool in regulatory monitoring, process water testing, and environmental water analysis in the field or laboratory, this meter provides drift-free, accurate readings. Also called a nephelometer, it measures the amount of light scattered at right angles from a beam of light passing through the test sample. Uses a tungsten filament lamp as a light source. Accepted by the EPA for compliance with NPDWR and NPDES monitoring programs as specified by USEPA method 180.1. Supplied with four optically selected sample vials with screw caps, standardization package consisting of 0.0, 1.0, and 10.0 NTU standards, instruction manual, Lithium ion rechargeable battery, wall charger, and carrying case.

Range: 0 to 4,000 Nephelometric Turbidity Units (NTUs). **Units of Measure:** NTU, AU, ASBC, EBC. **Accuracy:** ±2%. **Response Time:** <2 seconds. **Serial Interface:** RS232. **Power:** Lithium ion rechargeable battery and wall charger. **Dimensions:** 7.5″ x 3.5″ x 2.5″.

Model 2020we	6 lbs.	**77063**	**$923.75**
Replacement 0.0 NTU Standard, 60 ml	3 oz.	**77072**	**$31.45**
Replacement 1.0 NTU Standard, 60 ml	4 oz.	**77067**	**$49.50**
Replacement 10.0 NTU Standard, 60 ml	3 oz.	**77068**	**$49.50**
Replacement Vials, Set of 6	4 oz.	**94851**	**$31.25**

Lovibond® Portable Turbidimeter

3322

This fully portable turbidimeter is ideal for obtaining measurements in the field or laboratory. The instrument uses a "white light" source and 90° detection for accurate turbidity measurement. An auto-ranging function automatically selects the correct turbidity range for your sample. Results are shown on a large liquid crystal display, and five keys allow for simple operation. Use the included turbidity standards for easy calibration. The turbidimeter's power-efficient microcircuit design allows for long battery life. Included with the instrument are two sample cells, batteries, calibration set, operator's manual, and carrying case. Meets USEPA Standard 180.1 compliance for turbidity measurement. CE Certified.

Range: 0.01 to 1100 NTU. **Accuracy:** ±2% of reading or 0.01 NTU (0 to 500 NTU); ±3% of reading (500 to 1100 NTU). **Resolution:** 0.01 NTU below 100.0 NTU; 0.1 NTU for 100.0 to 999.9 NTU; 1.0 NTU for 1000 to 1100 NTU. **Power:** 4 AA alkaline batteries. **Battery Life:** up to 5,000 tests; 7 to 10 year bulb life. **Dimensions:** 8.25″ x 3.75″ x 1.75″.

Lovibond Portable Turbidimeter, Model TB200	3 lbs.	**77180**	**$944.90**
Replacement 0.0 NTU Standard	2 oz.	**95464**	**$19.75**
Replacement 40.0 NTU Standard	3 oz.	**95465**	**$61.95**

Nalgene® Large Wide-Mouth Bottles
page 478

Global Water Instrumentation, Inc.

Global Water Portable Turbidity Meter

7018

No vials needed!

The dip and read method of this turbidity meter makes taking readings easy. The turbidity sensor combines a 90° nephelometer with a transmissometer which determines turbidity by the ratiometric method in which errors typically caused by variations in light beam intensity, fouling of windows, changing colors and ambient light are virtually eliminated. The meter is calibrated by the manufacturer and comes with a 25′ cable. (Longer lengths up to 100′ are available upon request. Call 1-800-647-5368 for details.)

Range: 0 to 50 NTU (Nephelometric Turbidity Units) and 0 to 1,000 NTU. **Accuracy:** ±5% of reading. **Resolution:** 12 bit. **Response Time:** 2 seconds. **Light Source:** pulse LED. **Process Temperature:** 0°C to 70°C. **Pressure:** 0 to 50 psi. **Power:** 9V DC Battery. **Dimensions:** Body, 1.5″ Dia. x 8.5″L; Sensor Shield, 1.7″ x 2″; Overall Length, 9″.

Global Water Portable Turbidity Meter	7 lbs.	**77169**	**$1465.00**
9V Alkaline Battery, single	3 oz.	**02179**	**$3.20**

Rite in the Rain® Field Books
pages 553 thru 555

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Hanna Instruments® Portable Turbidity Meter Kit

4634

This microprocessor-based meter provides reliable, accurate turbidity measurements in the field or laboratory. The meter covers a 0 to 1,000 FTU range in two scales, and the auto-ranging feature sets the appropriate range for the measurement. Measurements are taken as a beam of infrared light passes through the vial containing the sample. This High Emission Infrared LED has a wavelength peaking at 890 nm to ensure that interference caused by colored samples is kept to a minimum. A sensor detects the amount of light scattered by undissolved particles present in the sample, and the microprocessor converts the reading into an FTU value (1 FTU = 1 NTU). All meter operations can be done using only four keys located on the water-resistant keypad. The meter is supplied with calibration solutions, two cuvettes, a cuvette cleaning solution, a cuvette cleaning cloth, four 1.5V AA batteries, a rugged carrying case, and instructions.

Hanna Instruments Portable Turbidity Meter Kit	3 lbs.	**76871**	**$729.25**

Range: 0.00 to 50.00 FTU, 50 to 1,000 FTU (1 FTU = 1 NTU). **Resolution:** 0.01 and 1 FTU. **Accuracy:** ±0.5 FTU or ±5% of reading (whichever is greater). **Typical EMC Deviation:** ±2% FS. **Calibration:** 3 point (0, 10, and 500 FTU). **Light Source:** Infrared LED. **Light Source Life:** Life of the instrument. **Light Detector:** Silicon Photocell. **Battery:** Four 1.5V AA alkaline batteries (included). **Battery Life:** Approximately 60 hours of use or 900 measurements. **Auto-Off:** After 5 minutes of non-use. **Operating Environment:** 0 to 50°C (32°F to 122°F), RH max 95% non-condensing. **Dimensions:** 8.7″ x 3.2″ x 2.6″. **Weight:** 1.1 lbs.

AA cell Alkaline Batteries, pack of 4	7 oz.	**02352**	**$3.25**
Cuvette Cleaning Cloths, pack of 4	1 oz.	**77312**	**$14.25**
		3+	**$12.95**
Glass Cuvettes, set of 4	3 oz.	**77316**	**$21.75**
		3+	**$19.95**
Cuvette Caps, set of 4	1 oz.	**77327**	**$10.95**
		3+	**$9.95**
Cuvette Cleaning Solution, 230 ml	9 oz.	**77328**	**$24.50**
		3+	**$22.95**
AMCO-AEPA-1 Calibration Solution at 0 FTU, 30 ml	1 oz.	**76873**	**$20.95**
AMCO-AEPA-1 Calibration Solution at 10 FTU, 30 ml	1 oz.	**76874**	**$29.95**

LaMotte

LaMotte® 1200 Digital Chlorine Analyzer Kit

3326

Determine Free Available Chlorine levels and total residual chlorine.

With only a single test sample of chlorinated water, you'll be able to use the colorimeter and DPD reagents to distinguish the water's level of Free Available Chlorine as well as its total residual of chlorine. The sample's level of Bromine and Iodine can also be determined with a few simple calculations. Results quickly appear in ppm (parts per million) on the colorimeter's large 3-1/2 digit LCD screen, and its flip-top lid over the sample chamber prevents any stray light, especially in the field and avoids misplacing separate light caps. Features include a compact, hand-held design, a water-resistant, rugged housing for use in the field or lab, and an RS232 serial port for interfacing with a datalogger or computer. Kit includes a colorimeter, six 10 ml screw-cap sample vials, one water sample bottle, instruction manual, and sturdy, foam-lined carrying case.

Range: 0-4.0 ppm. **Sensitivity:** 0.05. **Reading stability:** within 1% of final value within 3 seconds. **Photometric accuracy:** ±2%. **Photometric precision:** ±0.001 AU. **Sample chamber:** accepts 25 mm diameter flat-bottom, capped test tubes (included). **Display:** 3-1/2 digit LCD. **Power:** 1 alkaline 9-volt DC battery (included) or optional AC adapter. **Dimensions:** 3-3/8″ x 6-3/8″ x 2-5/8″. **Weight:** 11 oz.

Kit w/DPD TesTabs tablet reagents for 100 tests (case included)	6 lbs.	**76410**	**$383.50**
Refill DPD TesTabs tablets for 100 tests	3 oz.	**76411**	**$26.85**
Refill Liquid DPD Reagents for 140 tests	5 oz.	**77210**	**$19.25**

H. F. Scientific Micro TPI Portable Turbidimeter

4003

Combines rugged durability and portability for use in the field while achieving laboratory accuracy!

Features include push-button calibration, a waterproof housing and a shock-resistant carrying case. Instrument comes complete with batteries, carrying case, a calibration set (0.02, 10.0, and 1000 NTU Standards), two empty cuvettes, two Kimwipes® and an instruction manual.

Measurement Range: 0 to 1,100 NTU. **Accuracy:** 0 to 500 NTU, ±2% of reading or ±0.01 NTU; 500 to 1,100 NTU, ±3% of reading. **Resolution:** 0.01 NTU < 10 NTU; 0.1 NTU < 100 NTU; 1 NTU < 1,100 NTU. **Response Time:** 6 to 16 seconds. **Display:** 4-digit LCD. **Power Supply:** 4 AAA batteries. **Battery Life:** 1,000+ tests.

Micro TPI Portable Turbidimeter	3 lbs.	**77188**	**$798.95**
Replacement Calibration Kit (0.02, 10 & 1000 NTU)	7 oz.	**77189**	**$227.00**
Replacement Cuvettes with light shield caps, 3 pack	2 oz.	**77194**	**$43.00**
AAA cell, pack of 4	2 oz.	**02362**	**$3.25**

OAKTON

Oakton® T-100 Waterproof Turbidity Meter

2602

Waterproof, dustproof meter provides reliable readings time after time!

The T-100 features four-point push-button calibration for full-range accuracy and provides automatic prompts to the next calibration standard. The large LCD displays the reading and units of measure. A sealed optical system with infrared light source offers high accuracy across the entire measurement range. The meter features auto-ranging from 0 to 1,000 NTU, auto shut-off, and diagnostic error messages. Included with the meter are four primary standards (0.02, 20.0, 100, and 800 NTU), two empty cuvettes with light shield caps, 4 AAA batteries, instructions, and a hard carrying case. Waterproof and dustproof with IP67-rated housing that floats.

Range: 0 to 19.99; 20.0 to 99.9; 100 to 1,000 NTU. **Resolution:** 0.01; 0.1; 1. **Accuracy:** ±2% over full range. **Sample volume:** 10 mL. **Response time:** less than 6 seconds. **Display:** 7-segment LCD. **Light source:** infrared LED. **Operating temperature:** 32°F to 122°F (0°C to 50°C). **Power:** 4 AAA alkaline batteries (included). **Battery life:** approximately 1,200 tests. **Dimensions:** 6-1/2″L x 2-3/4″W x 2″H.

Oakton T-100 Waterproof Turbidity Meter	10 oz.	**77200**	**$966.50**
Replacement Calibration Set – Includes set of four 60mL HDPE plastic bottles filled with 0.02, 20.0, 100, and 800 NTU primary calibration standards.	7 oz.	**77215**	**$307.95**
Cuvettes, pack of 3	5 oz.	**77216**	**$44.95**

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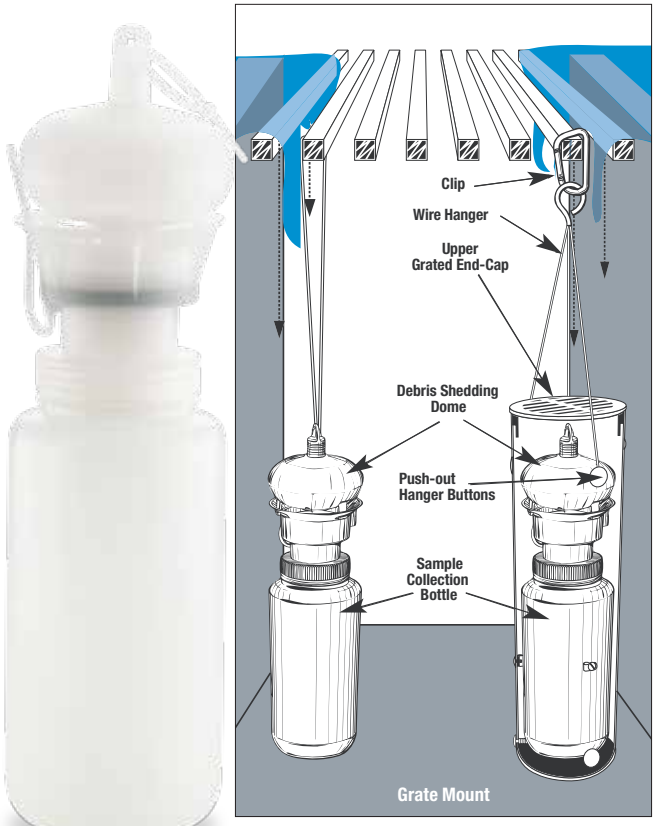


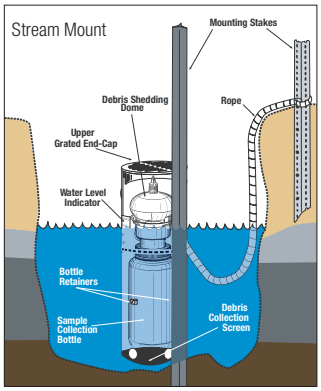
I-CHEM™ Storm Water Sampler

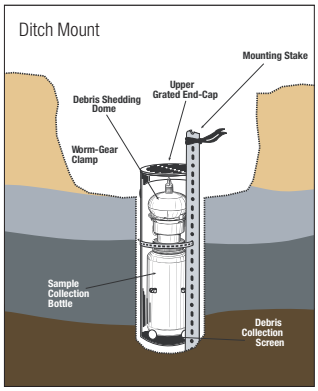
3668

Affordable, convenient, and EPA compliant!

The I-CHEM collects a full one-liter sample of first flush storm water within the first 30 minutes of a rain event in compliance with EPA sampling requirements. A floating ball valve seals off the sample collection port to prevent co-mingling with run-off water as well as volatile analyte loss. Water flows through the sampler's collection funnel directly into a Nalgene® sample bottle so that no sample transfer is necessary before transport to the lab. After sampling is complete, remove the collection bottle from the reusable storm water sampler mounting kit's tube (sold separately). Simply discard the bottle's collection funnel and replace with a standard Nalgene closure for leakproof transport. To do future sampling, just insert a new I-CHEM storm water sampler in the tube. Because a new sample bottle is used each time, no decontamination is needed. The I-CHEM can be securely mounted in a storm water ditch, stream, or storm grate outfall using the storm water sampler mounting kit. **Dimensions:** Sampler, 13.2˝H x 3.8˝ dia.; Mounting Kit, 15.6˝H x 4.6˝ dia.

I-CHEM Storm Water Sampler, pack of 4	4 lbs.	**77275**	**$165.50**
Storm Water Sampler Mounting Kit	4 lbs.	**77271**	**$74.75**





Ⓞ Oversize. Ships at Oversize rate. See Shipping Information for details.

Global Water Instrumentation, Inc.

Spill Containment page 725

Global Water Wastewater/Stormwater Sampler

7123

Designed to meet the federal sampling requirements of the Stormwater program.

Set the sampling mode for each of two pumps and bottles individually. Because it is actually two samplers in one, consisting of two intake tubes, two sampling pumps, and two one-gallon sample bottles, any possibility of cross-contamination between the samples is eliminated. You can obtain two individual time-weighted or flow-proportional composite samples, two full-bottle discrete (grab) samples, or a full-bottle discrete (grab) sample in one bottle and a time-weighted or flow-proportional composite sample in the other. When taking two composite samples, you can even adjust sample size settings for each pump. The sampler can be easily set up and installed in any stormwater channel to take and store physical water samples throughout a storm event. Included are a rainproof lockable carrying enclosure, two one-gallon polyethylene sample bottles, two peristaltic sampling pumps, a control panel-enclosed logic timer/controller, two 15´ reinforced PVC sample pickup hoses with removable debris strainers, a 5 AH rechargeable gel cell battery, and a battery charger. The Stormwater Kit (sold separately) includes a rain sensor, flow sensor, and an auto-drain rain gauge.

Global Water Wastewater/Stormwater Sampler	Ⓞ	29 lbs.	**77136**	**$1449.00**
Stormwater Kit for 77136		3 lbs.	**77236**	**$264.00**

		Global Water Model SS201 Stormwater Sampler
Sample Size	Composite	15 from 50ml to 2 liters plus a full bottle discrete setting.
	Composite Max.	
Size		9˝L X 17˝W X 22˝H
Weight		22 lbs.
Operating Temperature		0°C to 70°C
Materials	Enclosure	Expanded UV protected by PVC
	Bottles	Polyethylene
	Sample Tubing	Polyethylene
Sample Pump	Flow Rate	1,000 ml per minute at 4 ft. head
	Type	Peristaltic
	Maximum Lift	20´
Logic Timer/Controller		CMOS Solid State (fully potted in epoxy)
Water Level Sensor		Solid State with a 15´ cable
Sample Hoses		Two 15´ PVC reinforced 1/4˝ ID polyethylene flexible tubing sections with intake strainers. Hoses may be extended, as required, using standard 1/4˝ tubing and fittings.
Battery		Rechargeable 5 AH Gel Cell
Battery Life	Minimum	One pump running, 1 hour; two pumps running, 1/2 hour
	Sampling	3 months while still retaining enough power to run to capacity.

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Global Water
Instrumentation, Inc.

Global Water Composite/Discrete Water Sampler

7017

Designed specifically to meet the sampling requirements for industrial discharges, sewers, rivers, and streams.

This composite/discrete sampler allows you to control sample size and take either individual, time-weighted composite samples or full-bottle discrete grab samples in a two-gallon sample bottle. You can set the time between individual composite samples or use the external trigger mode for flow-proportional sampling. Use the start delay timer to start multiple samplers in the field at the same time or delay drawing a water sample following a triggering event so that the sample better represents the water source. The automatic 15 second backflush cycle ensures that the next composite sample is not contaminated. Sample size can be adjusted to one of 15 composite sample sizes from 50 ml to 2 liters, and the time interval can be set to one of 15 time settings from 5 minutes to 12 hours. Comes complete with a two-gallon polyethylene sample bottle, a peristaltic sampling pump, a circuit board controller, a sample pickup hose, a rechargeable gel cell battery, and a battery charger.

Global Water Composite/Discrete Water Sampler	O	26 lbs.	**77135**	**$1271.00**

		Global Water Wastewater Sampler
Sample Size	Composite	50 ml to 2 liter samples as set by user.
	Composite Max.	Two gallon
Size		9″D X 17″W X 22″H
Weight		20 lbs.
Operating Temperature		0°C to 70°C
Materials	Enclosure	Expanded UV protected by PVC
	Bottle	2 gallon polyethylene
	Sample Tubing	Polyethylene
Sample Pump	Flow Rate	1,000 mL per minute at 4 ft. head
	Type	Peristaltic
	Maximum Lift	20′
Logic Timer/Controller		CMOS Solid State (fully potted in epoxy)
Water Level Sensor		Solid State with a 15′ cable
Sample Hose		One 15′ PVC reinforced 1/4″ ID polyethylene flexible tubing section with intake strainers. Hoses may be extended, as required, using standard 1/4″ tubing and fittings.
Battery		Rechargeable 5 AH Gel Cell
Battery Life	Minimum	one hour, continuous pumping under load
	Standby	3 months while still retaining enough power to run to capacity.

MasterFlex™ E/S Portable Sampler

3273

Designed for the ultimate in portability and versatility!

MasterFlex™ E/S Portable Sampler

This variable-speed pump runs up to 4 hours on the self-contained 12V DC rechargeable battery, or indefinitely from any AC outlet or 12V DC power supply (automotive, etc.). The pump lifts water from a depth of 26 feet when used with pump head and sizes 15 and 24 tubing. Flow rate is 125 to 650 ml/minute for #15 tubing; 210 to 1,100 ml/minute for #24 tubing. The IP54-rated control panel protects against inclement weather and water splash. Pump is encased in a high visibility yellow aluminum housing and includes an instruction manual and AC adapter with 12′ cable. Order pump head and tubing separately.

Motor Type: Variable with speed controlled by a single-turn potentiometer. **Speed Range:** 1 to 400 rpm. **Number of Standard Heads Accepted:** one. **Reversible Flow:** Yes. **Power AC/Hz:** 115V/60. **Dimensions:** 10-1/2″D x 11-1/3″W x 16″H.

MasterFlex Variable Speed Pump	O	21 lbs.	**76899**	**$1370.25**

Easy-Load® Pump Head & Accessories

This quality pump head delivers a flow rate of up to 1.1 LPM (0.3 GPM) and is designed to provide easier and faster tube loading. Pump head accepts #15 and #24 thick-wall tubing (15′ of #15 tubing included). Features include stainless steel ball bearing rotor assembly, common three-roller geometery that reduces pulsation, multi-channel synchronous operation with other pump heads, direct mount onto pump drive, and polysulfone housing for general purpose applications. Mounting hardware is included. Order 12V DC adapter separately.

Easy-Load Pump Head	1 lb.	**76822**	**$308.25**

Tubing for Easy-Load® Pump Head

Thick-wall Silicone Tubing, Size 15, 3/16″ I.D., 25′L	2 lbs.	**76878**	**$91.50**
Thick-wall Silicone Tubing, Size 24, 1/4″ I.D., 25′L	2 lbs.	**76882**	**$115.50**

Accessories

12V DC Adapter	10 oz.	**76823**	**$56.50**

More Global Water sampling systems available at www.forestry-suppliers.com

O Oversize. Ships at Oversize rate. See Shipping Information for details.

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Proactive Environmental Products™ Sampling Pumps

2621

Can be used in low flow groundwater sampling.

Ideal for continuous sampling or purging of groundwater wells, these pumps can fit into a 2″ dia. or larger well. The computer-engineered bottom debris screen separates debris from water and helps prevent damage to the pump motor. Constructed of PVC plastic and stainless steel, the sleek pump design minimizes well hang-ups. The pumps can run continuously without cooling down and can even run dry for up to two hours without causing motor damage. The Mini-Typhoon, Tempest, Mini-Monsoon, and Tornado operate directly from a 12V car battery using the supplied alligator clip adapter or can be used with the Low Flow Sampling Controller to regulate flow. The Monsoon requires the use of the Low Flow with Power Booster II Controller to operate from a 12V car battery.

Low Flow Sampling Controller

Use this controller with the Mini-Typhoon, Tempest, Mini-Monsoon, or Tornado to regulate the flow of liquid being discharged from the pump. Easy to use, the controller connects to a 12V car battery, and a quick-connect adapter allows connection to the sampling pump. Features a weatherproof casing, heavy duty steel enclosure, and 3′ 12V cable. **Dimensions:** 5.5″ x 3.5″ x 2.5″.

Low Flow Sampling Controller	5 lbs.	**76200**	**$375.00**

Low Flow with Power Booster II Controller

This controller with power booster makes low flow groundwater sampling with the Monsoon fast and easy. The flow of water being discharged from the pump is controlled so that EPA groundwater standards for low flow sampling are met. The controller allows sampling as low as 40ml/min. Simply connect the controller to a 12V car battery, and then connect the pump to the controller. The controller features a heavy duty steel weatherproof case and a 25 amp safety fuse to protect electronics and the user. **Dimensions:** 5.5″ x 3.5″ x 2.5″.

Low Flow with Power Booster II Controller	5 lbs.	**76201**	**$513.00**

Mini-Typhoon

Capable of pumping up to 40′ deep. The Mini-Typhoon comes with 50′ of heavy duty 12 gauge wire with a quick-connect adapter to connect to either the included alligator battery connectors for connection to a battery or to the optional Low Flow Controller (sold separately).

Flow rate at maximum depth: 0.25 gpm. **Power consumption:** 80 to 105 watts. **Maximum amp output:** 7 amps. **Dimensions:** 9.5″L x 1.7″ dia.

Mini-Typhoon	4 lbs.	**76194**	**$113.00**
100′ Roll Clearflo PVC Tubing, 3/8″ I.D., 1/2″ O.D.	5 lbs.	**78130**	**$33.75**

Tempest

Capable of pumping up to 60′ from ground level, the Tempest comes with 70′ of heavy duty 12 gauge wire with a quick-connect adapter to connect to either the included alligator battery connectors for connection to a battery or to the optional Low Flow Controller (sold separately).

Flow rate at maximum depth: 0.25 gpm. **Power consumption:** 130 to 180 watts. **Maximum amp output:** 11 amps. **Dimensions:** 14.5″L x 1.7″ dia.

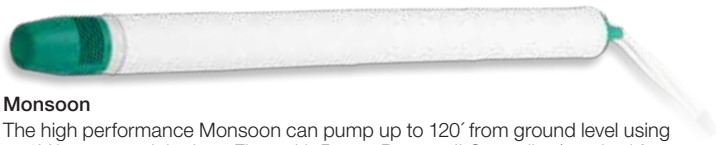
Tempest	6 lbs.	**76193**	**$179.00**
100′ Roll Clearflo PVC Tubing, 3/8″ I.D., 1/2″ O.D.	5 lbs.	**78130**	**$33.75**

Mini-Monsoon

Pumps up to 70′ from ground level. The Mini-Monsoon is supplied with 80′ of heavy duty 12 gauge wire with a quick-connect adapter to connect to either the included alligator battery connectors for connection to a battery or to the optional Low Flow Controller (sold separately).

Flow rate at maximum depth: 0.25 gpm. **Power consumption:** 150 to 190 watts. **Maximum amp output:** 13 amps. **Dimensions:** 19.5″L x 1.7″ dia.

Mini-Monsoon	8 lbs.	**76188**	**$203.00**
100′ Roll Clearflo PVC Tubing, 3/8″ I.D., 1/2″ O.D.	5 lbs.	**78130**	**$33.75**



Monsoon

The high performance Monsoon can pump up to 120′ from ground level using a 12V battery and the Low Flow with Power Booster II Controller (required for use, sold separately). Includes 130′ of heavy duty 12 gauge wire and a Power Booster II adapter.

Flow rate at maximum depth: 1 gpm. **Power consumption:** 150 to 310 watts. **Maximum amp output:** 13 amps. **Dimensions:** 19.5″L x 1.7″ dia.

Monsoon	13 lbs.	**76189**	**$455.00**
100′ Roll Clearflo PVC Tubing, 3/8″ I.D., 1/2″ O.D.	5 lbs.	**78130**	**$33.75**

Tornado

Capable of pumping up to 100′ from ground level. The Tornado is supplied with 110′ of heavy duty 10 gauge wire with a quick-connect adapter to connect to either the included alligator battery connectors for connection to a battery or to the optional Low Flow Controller (sold separately).

Flow rate at maximum depth: 0.25 gpm. **Power consumption:** 210 watts (maximum). **Maximum amp output:** 14 amps. **Dimensions:** 27″L x 1.82″ dia.

Tornado	12 lbs.	**76183**	**$273.00**

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Geotech® Geopump 2™ Peristaltic Pump

7483

Ideally suited for field sample removal from shallow wells and all surface water sources or for laboratory use. Designed for single and multi-stage pressure or vacuum pumping of liquids. Operates by mechanical peristalsis, so the sample only comes in contact with the tubing allowing for consistent sample integrity as well as easy cleaning and replacement. Reversible flow feature for back-flushing. Includes 5´ of #15 silicone tubing.

Operating Range: suction from 27 feet at sea level. **Range of Speed:** First pumping station, 30 to 300 rpm; Second pumping station, 60 to 600 rpm. **Liquid Delivery Rate:** 1.67 ml per revolution. **Speed Control:** Stepless variable speed control. **Power Source:** Any external 12V DC or 120V AC.

Geopump 2 Peristaltic Pump	25 lbs.	**76890**	**$1310.95**
Thick-wall Silicone Tubing, Size 15, 3/16˝ I.D., 25´L	2 lbs.	**76878**	**$91.50**
Thick-wall Silicone Tubing, Size 24, 1/4˝ I.D., 25´L	2 lbs.	**76882**	**$115.50**

Global Water Instrumentation, Inc.

Global Water Peristaltic Pump

7476

Ideal for removing samples from shallow wells and surface water sources. Lightweight, rugged, easy to use, weather resistant, and requires minimal maintenance. Designed to take a manual sample, it also has the ability to backflush the sample hose once a sample has been taken. To provide high sample integrity, the water sample never comes in contact with any water sampler components other than the norprene and polyethylene tubing. The tubing is easy to clean and replace. To avoid cross-contamination or lengthy decontamination procedures, simply change the inexpensive tubing between samples. Includes a 10´ power cord that can be attached to a 12V (car battery) power source.

Flow Rate: 1000 ml per minute at 4 ft. head. **Maximum Lift:** 22 ft (6.7 m). **Pump Tube:** Norprene 1/4˝ ID. **Sample Hose:** 15´ (4.6 m) nylon reinforced polyethylene tubing with intake strainer. **Enclosure:** Expanded UV protected PVC. **Dimensions:** 9˝ x 7.5˝ x 4.5˝. **Weight:** 6 lbs.

Global Water Peristaltic Pump	7 lbs.	**76891**	**$738.95**
12V 5AH DC Rechargeable Battery	3 lbs.	**76895**	**$40.25**
Battery Charger for 12V 5AH Rechargeable Battery	7 oz.	**76896**	**$22.95**

Proactive Environmental Products™ WaterSpout I & II 12V DC Battery-Operated Purge Pumps

3271

Use to bail or pump shallow wells (less than 60 ft.)!

They're reliable, easy-to-handle, operate off a 12-volt battery, will pump turbid water, and may be used to purge or develop any shallow well with a 2˝ I.D. or larger. To use, merely attach discharge tubing to the pump, fully submerse pump in water, and connect the +/- power clamps to a 12-volt battery. Pumping will begin as soon as the +/- clamps are connected to the battery and continue until the clamps are removed. **Two models available:** 40´ Mini and 60´ Super. Both work with 1/2˝ or 3/8˝ tubing and feature ABS plastic housings, nitrile seals, and stainless steel impellers. Battery not included.

WaterSpout I Mini Purge Pump

Well depth: Up to 40´; **Lead line:** 50´; **Output (max.):** 3 gpm; **Flow rate at maximum depth:** 0.25 gpm; **Maximum amp output:** 7 amps; **Diameter:** 1-3/4˝; **Length:** 6˝; **Expected life:** 300 hrs. to 450 hrs. (55,000 gallons).

WaterSpout I Mini Purge Pump	4 lbs.	**76256**	**$98.25**
100´ Roll Clearflo PVC Tubing, 3/8˝ I.D., 1/2˝ O.D.	5 lbs.	**78130**	**$33.75**

WaterSpout II Super Purge Pump

Well depth: Up to 60´; **Lead line:** 62´; **Output (max.):** 2.8 gpm; **Flow rate at maximum depth:** 0.25 gpm; **Maximum amp output:** 9 amps; **Diameter:** 1-3/4˝; **Length:** 13˝; **Expected life:** 300 hrs. to 450 hrs. (55,000 gallons).

WaterSpout II Super Purge Pump	6 lbs.	**76257**	**$172.25**
100´ Roll Clearflo PVC Tubing, 3/8˝ I.D., 1/2˝ O.D.	5 lbs.	**78130**	**$33.75**

Solinst® Peristaltic Pump Model 410

4126

Top handle and easy access controls make this pump ideal for field portability.

Designed for vacuum pumping or pressure delivery of liquids or gases, these lightweight pumps are ideal for sample removal from shallow wells and surface water. The mechanical peristaltic operation is effective to depths of 28 ft. (8.5m) at sea level, being limited only by the suction lift limit. The variable pumping rate can deliver from 40 ml/min. in sample mode to almost 3.5 liters/min. in the purge mode. The variable speed motor is reversible and is equipped with an 8 amp slow blow fuse and blocking-type reverse polarity protection. Other features include a water-resistant metal case with no grates or openings, a 12´L power cord fitted with alligator clips for easy connection to almost any 12 volt DC battery and medical grade silicon LDPE pump tubing which attaches easily to down well tubing (not included). Included with the pump is 3´ of 5/8˝ O.D. silicone tubing. The Solinst Peristaltic Pump measures 13˝ x 5˝ x 6.5˝ (33cm x 13cm x 17cm) and weighs only 8 lbs. (3.6 Kg).

Solinst Peristaltic Pump Model 410	9 lbs.	**76840**	**$982.00**
5/8˝ O.D. x 3/8˝ I.D. Silicone Tubing, 100´ Roll	10 lbs.	**78132**	**$159.40**
5/8˝ Tubing Clamp	1 oz.	**76842**	**$2.50**
3/8˝ O.D. x 3/16˝ I.D. Silicone Tubing, 100´ Roll	4 lbs.	**78131**	**$78.60**
3/8˝ Tubing Clamp	1 oz.	**76844**	**$2.10**
1/4˝ O.D. x 0.17˝ I.D. LLDPE Tubing, 100´ Roll	1 lb.	**78133**	**$12.25**
1/2˝ O.D. x 3/8˝ I.D. LLDPE Tubing, 100´ Roll	4 lbs.	**78134**	**$28.95**
3/8˝ Tubing Adapter Kit – For low flow sampling down to 40 ml/min.	4 oz.	**76849**	**$29.50**

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Conbar Stainless Steel Dipper
4794

Durable and lightweight, these stainless steel dippers incorporate a 500 ml stainless steel ladle, with pour spouts on two sides, attached to a 3/4″ Dia. stainless steel handle.

18″		1 lb.	**53893**	**$52.50**
3′		3 lbs.	**53894**	**$63.50**
6′	X	4 lbs.	**53895**	**$86.95**
8′	X	5 lbs.	**53896**	**$91.50**

Conbar Stainless Steel Swivel Dipper
4794

These swivel dippers allow you to take samples from almost any angle thanks to the 500 ml dipping ladle that rotates to almost 360°. Also for your convenience, the ladle has pour spots on two sides. Handles are 3/4″ in diameter.

18″		2 lbs.	**53897**	**$77.25**
3′		3 lbs.	**53898**	**$88.25**
6′	X	5 lbs.	**53899**	**$110.95**
8′	X	6 lbs.	**53900**	**$127.50**

1 Sub-Surface Grab Sampler
3227

Collect liquid samples without physically entering potentially dangerous sites! The Grab II Sampler is made of high strength aluminum tubing with polypropylene head and telescopic pole. Attaches to a large mouth 1,000 ml borosilicate glass bottle with Teflon-lined cap.

Grab II – 5′ - 12′ Telescopic Sampler	7 lbs.	**53879**	**$309.00**
Widemouth Bottles, Caps sold separately, Case of 12	10 lbs.	**53867**	**$49.95**
Widemouth Bottle Cap, Teflon-faced pulp liner, Case of 12	9 oz.	**53878**	**$32.95**

2 Conbar Telescopic Dipper
6570

Ideal for a variety of sampling applications!

Specially designed to grab samples from spillways, tanks, rivers, manholes, and other hard-to-reach places. Especially useful for obtaining sediment samples from the bottom of tanks, lakes, and holding ponds. Each dipper is manufactured from aluminum tubing. One replaceable 600 ml polypropylene ladle included with each model. Replacement 600 ml dipper ladles are sold separately.

Conbar Telescopic Dipper- 8′L, retracts to 4′L		3 lbs.	**53946**	**$71.00**
			3+	**$67.50**
Conbar Telescopic Dipper- 12′L, retracts to 6′L		4 lbs.	**53950**	**$83.50**
			3+	**$78.50**
Conbar Telescopic Dipper- 18′L, retracts to 7′L	X	6 lbs.	**53951**	**$106.50**
Conbar Telescopic Dipper- 24′L, retracts to 7′L	X	7 lbs.	**53952**	**$127.50**
Replacement 600 ml Dipper Ladles, Case of 10		1 lb.	**53947**	**$45.50**
Optional Swivel Adapter for Telescopic Dipper		6 oz.	**53948**	**$35.80**
Optional 600 ml Swivel Dipper Ladles, Case of 10		1 lb.	**53949**	**$39.25**
Optional Wide Mouth Jar Adapter for Conbar Telescopic Dipper		10 oz.	**53901**	**$60.95**
Optional Pre-cleaned Dipper Ladle, Case of 5		1 lb.	**53902**	**$32.95**
Optional Pre-cleaned Ladle for Swivel Adapter, Case of 5		15 oz.	**53903**	**$29.75**

3 Bel-Art® Long-Handled Dippers
3237

Used for easy sampling from tanks, vats, lakes, etc., these high-density, polyethylene dippers will not contaminate solutions or corrode. 1-1/8″ (29 mm) Diameter handle is welded to the rigid 16 oz. (500 ml) bowl at a 45° angle. Available in 3′, 6′, or 12′ lengths. 12′L Dipper features a two-piece, screw-together handle.

3′L Dipper		11 oz.	**53914**	**$47.75**
6′L Dipper	X	2 lbs.	**53915**	**$67.95**
12′L Dipper	X	4 lbs.	**53916**	**$127.75**

4 Swing Sampler
3228

The end of this sampler swings for collecting samples at different angles with a maximum of 90°, making it perfect for sampling streams from steep stream banks. The fiberglass pole extends to 12 feet for flexibility in various situations. A 960 ml bottle is included. A large snapper holds bottles in the 1,000 ml range. The Swing Sampler may be used for liquids, powders, or small solids.

Swing Sampler	X	5 lbs.	**53920**	**$126.25**
			2+	**$118.50**
Nalgene Wide-Mouth Bottle, 32 oz./1,000 ml	C	4 oz.	**53665**	**$11.45**
			12+	**$10.45**
			24+	**$9.55**

C Combination English and Metric
X Items 60″ or more require an additional handling charge.

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1 GeoSorb Oil Absorbent Kit
3222

Absorbs and contains petroleum-based contaminants.

For safe, effective removal of petroleum hydrocarbons from groundwater monitoring and/or recovery wells. GeoSorb is as easy to use as a bailer and acts as a passive, selective skimmer. It will absorb and help remove a sheen. When placed into the well, GeoSorb reacts instantly to absorb and contain petroleum-based contaminants. Absorbing free product only, GeoSorb repels water, resists chemicals, and helps reduce waste and disposal costs. It can even be left in place to absorb free product over a period of time. The 2″ diameter kit includes one stainless steel refillable canister and 12 disposable absorbent tubes. Each 2″ diameter tube absorbs approximately 1 quart. Refill tubes available below.

2″ GeoSorb Kit	7 lbs.	**76343**	**$267.75**
2″ GeoSorb Refill Tubes, Case of 12	5 lbs.	**76344**	**$117.75**

2 WaterMark® Disposable Polyethylene Coliwasa
3233

WATER MARK®

These coliwasas provide safe, cost-effective sample retrievals for drum sampling. Each features a special tapered fitment which serves as a check valve to close off the sampler and allow easy transfer to sample bottles with minimum loss. Made of high density, inert polyethylene, each coliwasa is individually decontaminated with Liquinox™ laboratory detergent and DI water rinse before assembled, and then individually packaged and sealed.

1,100 ml capacity, 1.5″ I.D. x 42″L, Case of 12	5 lbs.	**76669**	**$82.50**
	4+		**$74.75**

3 Sludge Judge
3234

Take accurate readings of settled solids in any liquid at 15′.

The sampler holds approximately 3 oz. per foot and comes in three 5′ sections constructed of 3/4″ clear plastic pipe with screw-type fittings. Lowering the Sludge Judge opens a float valve, allowing materials to flow in. When the bottom is reached, set the check valve by tugging slightly on the rope attached to the top section as you begin to raise the unit. Read the sample amount using the 1′ increments marked on the pipe sections. To release the material, touch the pin extending from the bottom section against a hard surface. A convenient, canvas carrying case is available, as well as a 6′ spiral brush for cleaning the Sludge Judge.

Sludge Judge	X	3 lbs.	**53930**	**$98.25**
Optional Canvas Carry Case		1 lb.	**53933**	**$35.75**
Optional Spiral Cleaning Brush, 1″ dia. x 6′L	X	8 oz.	**53934**	**$31.75**

Drum Stix® Disposable Teflon® Seal Glass Coliwasas
3239

These "anti-leak" Teflon® seal coliwasas are made from chemically resistant glass and combine positive sample retention with easy one-hand operation. Great for sampling any flowable liquids and seals well with solids present. Each coliwasa is 43″ long and has a 250 ml sample capacity.

Model dsx2000, Case of 12	9 lbs.	**53919**	**$98.50**

X Items 60″ or more require an additional handling charge.

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ecobailer

EcoBailer Disposable Clear PVC Bailers

2508

Clear bailers allow quick spot checks in the field!

Made of clear virgin PVC with a density of 1.31, these bailers have a rapid sink rate without the additional cost and environmental impact of built-in weights. Other features include easy threading, smooth well entry and exit, longer bottoms for preventing silt entry and leakage, and easy pour tops to facilitate the sampling process. Emptying devices are separately sealed to prevent package tearing when removing from the box. Three sizes are available.

Ecobailer 153 - 1.5″Dia. x 3′L , Case of 24	10 lbs.	**78007**	**$87.50**
		3+	**$83.50**
Ecobailer 154 - 1.5″Dia. x 4′L , Case of 24 Ⓞ	12 lbs.	**78008**	**$95.50**
		3+	**$91.95**
Ecobailer 703 - 0.70″Dia. x 3′L, Case of 24	4 lbs.	**78009**	**$89.25**
		3+	**$85.25**

WATER•MARK®

WaterMark® Dome-End 36″ Disposable Polyethylene Bailers

3242

Domed-designed ends avoid hang-ups when lowering or retrieving bailers!

Made of inert polyethylene, these inexpensive, disposable bailers are pre-cleaned in Liquinox™ laboratory detergent and then rinsed with de-ionized water, helping you eliminate cross contamination of samples and time-consuming clean-up in the field. Each bailer measures 36″ long and has a friction fit nozzle for easy removal of sample.

Single Check Valve Bailer

Has polyethylene retainer to retain the ball when emptying the bailer from the top. Also has a slide-in slotted nozzle for easy sample removal.

1/2″ O.D. with 500 ml capacity and 5/16″ Delrin Ball, Case of 24	3 lbs.	**78033**	**$120.00**
3/4″ O.D. with 750 ml capacity and 1/2″ PVC Ball, Case of 24	4 lbs.	**78028**	**$110.50**
		3+	**$99.50**
1-5/8″ O.D. with 1 liter capacity and 3/4″ PVC Ball, Case of 24	8 lbs.	**78015**	**$97.00**
		3+	**$89.00**
3″ O.D. Purging with 1-1/2 gal. capacity and 1″ PVC Ball, Case of 9	8 lbs.	**78030**	**$87.95**
		3+	**$81.25**

Single Weighted Check Valve Bailer

Allows easier sample extraction from varying well depths. Has polyethylene retainer on top with weight, bottom polyethylene retainer, and slotted nozzle for easy sample removal.

1/2″ O.D. Bailers with 500 ml capacity and 5/16″ Delrin Ball, Case of 24	3 lbs.	**78034**	**$137.00**
1-5/8″ O.D. Bailers with 1 liter capacity and 3/4″ PVC Ball, Case of 24	12 lbs.	**78016**	**$115.00**
		3+	**$105.00**

VOC Sampler

Adapter for bailer that allows transfer to VOA vials without loss of VOC's. Provides a controlled sample flow. Polyethylene construction. For use with 1-5/8″ O.D. bailers only.

Case of 24	9 oz.	**78017**	**$20.00**

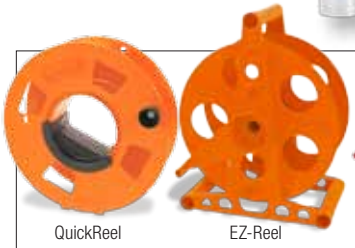
WaterMark® Dome-End Disposable Teflon® Bailers

3243

Highly recommended when sampling high concentrations of contaminates that could cause permanent damage to more expensive bailers.

New domed-designed ends avoid hang-ups when lowering or retrieving bailers! Designed for taking single samples, these inexpensive, non-weighted, disposable Teflon® bailers are pre-cleaned in Liquinox™ laboratory detergent and then rinsed with de-ionized water. They also help eliminate cross contamination of samples and time-consuming clean-up in the field. Both the 12″ and 36″ bailers have a 1/2″ check ball and a 1-5/8″ O.D. allowing them to be used in wells 2″ I.D. or larger. Optional VOC Removal Device allows you to remove samples with the lowest possible amount of agitation.

12″ Bailer, Case of 12	2 lbs.	**78021**	**$129.00**
		3+	**$119.00**
36″ Bailer, Case of 12	5 lbs.	**78022**	**$209.50**
		3+	**$189.90**
Optional VOC Removal Device, Case of 12	6 oz.	**78023**	**$7.50**



QuickReel EZ-Reel

Storage and Retrieval Reels

6288, 3257

Retrieve up to 200 ft. of polyrope, 500 ft. of Teflon® cord, or 100 ft. of extension cord!

QuickReel	1 lb.	**78292**	**$9.95**
		6+	**$8.95**
EZ-Reel	1 lb.	**78210**	**$11.50**
		6+	**$10.25**

Braided Nylon Utility Cord

3263

Strong, durable, lightweight 3/16″ nylon cord is handy for lowering and retrieving bailers and lightweight dredges. 100' Hank.

100′	6 oz.	**83299**	**$5.50**
		24+	**$4.50**

100′ Suspension Cable

3261

Teflon® covered 304 stainless steel suspension cable, 3/32″ diameter.

100′ Suspension Cable	1 lb.	**78285**	**$109.00**

Nylon Mason Line

3262

No. 18 Twisted Nylon

Nylon Mason Line , 500′	9 oz.	**83290**	**$5.95**
		24+	**$4.95**

Ⓞ Oversize. Ships at Oversize rate. See Shipping Information for details.

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1 Small Diameter Stainless Steel Bailer
3248

This small diameter, 3/4″ stainless steel bailer quickly retrieves samples from smaller diameter wells and features a removable Teflon® seat, 0.035″ thick wall, and stainless steel ball. **Capacity:** 230 ml. O.D.: 3/4″. **Length:** 36″.

Small Diameter Stainless Steel Bailer	14 oz.	**78325**	**$95.95**

2 Stainless Steel Bailer
3247

Unloads samples with minimal aeration. Semiclosed top minimizes sample contamination caused by bailer contact with well walls. Removable Teflon® check valve at bottom for easy decontamination. **Dimensions:** 1-3/4″ O.D., 36″L, 0.065″ wall thickness. **Capacity (approximate):** 1,000 ml.

Stainless Steel Bailer	4 lbs.	**78316**	**$146.95**
Replacement Teflon Ball	1 oz.	**78317**	**$18.50**
Replacement Teflon Seat	2 oz.	**78318**	**$13.95**

Conbar Bailer Retriever
6572

For retrieving bailers which have become separated from their retrieval line. Made of stainless steel, the bailer retriever is 5-1/2″ long. Designed to work in wells with a diameter of 2″ and more.

Conbar Bailer Retriever	5 oz.	**78002**	**$39.95**

Spring Hooks
6784

Stainless Steel Spring Hook – 2″L, 1/4″ Throat Opening*	1 oz.	**27500**	**$1.55**
Galvanized Steel Spring Hook – 2-3/8″L, 1/4″ Throat Opening*	1 oz.	**27501**	**$0.95**

***Note:** Not for personal support.

EcoPlug Locking Well Plug
3667

Constructed of recycled composite glass-filled polymer which is stronger than steel pound for pound, the EcoPlug is designed for years of worry-free use. The wing nut design with a recessed grip allows a lock (not included) to be easily secured to the well plug. The EcoPlug has a tethering attachment at the base for use with a variety of instruments, features no metal parts, and can be disassembled for easy decontamination.

1″ dia. EcoPlug	2 oz.	**78006**	**$8.95**
		10+	**$8.50**
2″ dia. EcoPlug	4 oz.	**78003**	**$6.75**
		10+	**$6.25**
4″ dia. EcoPlug	9 oz.	**78004**	**$11.25**
		10+	**$10.25**

1

2

Water Level Meters
pages 358 thru 360

WaterMark Disposable Groundwater Filter
3253

Use this 600 cm² filter for high levels of particulate matter that filters to 0.45µm.

WaterMark Groundwater Filter, 600 cm²	3 oz.	**78247**	**$13.75**

500ml Stainless Steel Bomb Sampler
3236

Use to collect liquid samples from the top, bottom, or any intermediate level of storage tanks, tank cars, ponds, lagoons, and wells. A suspension cable (sold separately) may be used to lower the sampler to the desired depth. A second cable attached to the plunger assembly is pulled, allowing the reservoir chamber to fill. Releasing the cable allows the plunger to seal, holding the sample inside. Helps comply with EPA Composite Sampling Methods. Sampler is 2-1/2″ dia. x 10″L and holds 500ml.

500ml Stainless Steel Bomb Sampler	5 lbs.	**53860**	**$497.00**
100′ Suspension Cable, Teflon covered 304 stainless steel, 3/32″ diameter	1 lb.	**78285**	**$109.00**

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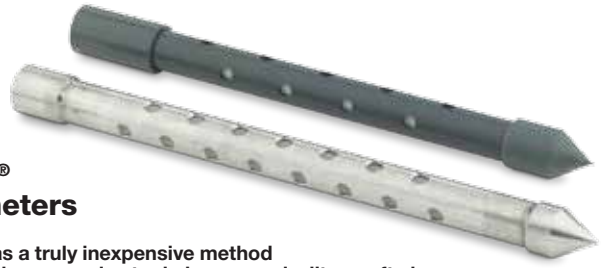

Solinst® Piezometers

4128, 4793

Designed as a truly inexpensive method for monitoring groundwater in loose sand, silt or soft clay.

The piezometer is easy to install and samples can be taken from various depths depending on soil conditions and the drive technology used. Optional stainless steel drive-point extensions are available to achieve desired sampling depths and the optional manual slide hammer can be used for driving the stainless steel piezometers into the ground.

Solinst® Model 601 PVC Standpipe Piezometer

Designed to be placed within an open hole for monitoring water level, measuring permeability, construction control, de-watering and drainage operations, slope stability investigations, monitoring metals, etc. The pointed PVC tip is suitable for pushing into very loose sands at the base of a borehole. The piezometer is composed of a porous plastic filter set inside a perforated PVC body, which connects to the surface with 3/4″ ID PVC riser pipe. The standard piezometer tip length is 12″ (300 mm).

Model 601 - 1′ PVC Standpipe Piezometer	6 oz.	**78305**	**$22.00**

Solinst® Model 615 Drive Point Stainless Steel Piezometer

The Model 615 piezometer is composed of a stainless steel cylindrical filter screen protected within a 3/4″ (20 mm) stainless steel drive-point body with an internal filter support and a barbed fitting for attachment of sample tubing. The inner barbed fitting allows connection of 5/8″ x 1/2″ (16 mm x 12 mm) LDPE or Teflon® sample tubing. This prevents sample water from contacting the steel extension casing and maintains high sample integrity even when inexpensive carbon steel extensions are used.

Model 615 - 1′ Stainless Steel Piezometer with Barb	2 lbs.	**78301**	**$93.75**

Solinst® Model 615N Drive Point Stainless Steel Piezometer

The 615N is designed for hydraulic head measurements with no barb for tubing. This saves money and frees up more space for easier use of a water level meter. Provides a 3/4″ diameter access channel.

Model 615N - 1′ Stainless Steel Piezometer without Barb	2 lbs.	**78300**	**$88.50**

Solinst® Drive-Point Piezometers Accessories

5/8″ O.D. x 1/2″ I.D. LLDPE Tubing, 100′ Roll	4 lbs.	**78135**	**$45.50**
Manual Slide Hammer	23 lbs.	**78303**	**$160.00**
Manual Drive Head Assembly	7 lbs.	**78304**	**$135.50**
2′ Stainless Steel Drive-Point Extension	2 lbs.	**78298**	**$29.50**
3′ Stainless Steel Drive-Point Extension	3 lbs.	**78299**	**$42.25**
Stainless Coupling	4 oz.	**78311**	**$16.95**
Delrin NPT Cap	4 oz.	**78312**	**$9.75**

WaterMark® Pressurized Disposable Bailer System

3253

An easy method for filtering water samples in the field!

Rugged polyethylene construction permits use for both bailing and sampling wells while eliminating cross contamination and decontamination time. Threaded fitments on each end are attached using a special heat bonding process for a full circumferential seal. Each bailer includes a barbed hose adapter for attaching a pump to the bailer, an adapter with a special notched thread that is used with the filter to displace the ball and establish flow, and a large barbed removal device for bottom emptying of samples without filtering. 1.5″I.D. x 36″L, approximately 1 liter capacity, 3/4″ PVC ball. Also required for use with the pressurized bailer are a filter and a vacuum pump with a vacuum gauge (each sold separately below). The 600 cm^2 filter is designed for high levels of particulate matter and filters to 0.45µm. The hand-operated pump provides easy pressurization in the field and features a pumping rate of 16 cc/stroke and 3 psi (0.21 bar) positive pressure at the exhaust port. The gauge monitors vacuum in centimeters and inches of mercury. Pump is supplied with 2′L x 1/4″I.D. clear plastic tubing.

Pressurized Bailer, Case of 12	6 lbs.	**76679**	**$109.00**
Hand-Operated Vacuum/Pressure Pump	13 oz.	**76680**	**$82.50**
WaterMark Groundwater Filter, 600 cm^2	3 oz.	**78247**	**$13.75**

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90719

Solinst® Levelogger® Edge

3372

Used for pump and slug tests and long-term level monitoring.

Ideal for automatic recording of water levels in a wide range of groundwater and surface water applications including wells, lakes, streams, harbors, tanks, etc. The self-contained Levelogger Edge combines a Hastelloy® pressure sensor, temperature thermistor, 10-year lithium battery, and a datalogger with FRAM memory for 40,000 sets of data points (or up to 120,000 using the compressed linear sampling option). The components are sealed inside a compact 7/8˝ diameter x 6.25˝ long stainless steel housing with corrosion-resistant Titanium-based PVD coating. The Titanium-based PVD coating and Hastelloy® pressure sensor help ensure more stable readings in extreme pressure and temperature conditions. Using infrared data transfer, the Levelogger eliminates the need for expensive electrical cable, as well as problems associated with electrical interference. The Levelogger measures pressure and temperature and displays temperature compensated level readings and temperature readings. Choose from linear, event-based, or customizable recording schedule sampling. Streamlined software allows for easy datalogger programming and offers compressed and repeat sampling options. Simplified data compensation allows for multiple data files to be barometrically compensated at once. Absolute pressure (water pressure + atmospheric pressure) is measured and expressed in feet, meters, centimeters, psi, kPa, or mBar. To obtain the most accurate water level readings, use a Barologger Edge (sold separately below) to compensate for atmospheric pressure. The Levelogger can be suspended on a wireline for effective concealment from vandals. You can also use an optional direct read cable to connect the Levelogger to the surface for easy downloading of data and reprogramming without removing the unit from the water.

The Levelogger can be easily programmed using the optical reader included in either the optional standard communications package or the optional direct read communications package. After the Levelogger is placed in the optical reader and attached to your computer, just add your site information and choose a sampling regime. Measurements can then be taken immediately or at a future time of your choosing. Using the direct read communications package and a direct read cable assembly (each sold separately), data can be retrieved and reviewed from the Levelogger at any time. To connect the direct read cable, remove the top cap of the Levelogger and attach the cable. The other end of the cable is fitted with an infrared connector which attaches via a PC interface cable to your computer. If the Levelogger is suspended on wireline, remove the unit from the sampling site and place it in the optical reader attached to a computer to retrieve data.

Maximum number of readings: 40,000 readings with FRAM memory or up to 120,000 using linear data compression. **Sample interval:** 0.125 seconds to 99 hours. **Sampling modes:** linear, event-based, or customizable recording schedule. **Minimum system requirements:** Processor, Pentium 166Mhz; Memory, 32MB or more; Display, VGA 800 x 600 pixels 256 color; RS232 COM port; Windows 95, 98, ME, 2000, or XP. **Stainless steel level sensor – Accuracy:** ±0.05% FS. **Resolution:** 24 Bit Resolution. **Temperature sensor – Range:** -20°C to 80°C. **Accuracy:** ±0.05°C. **Resolution:** 0.003°C. **Power source:** lithium battery (included). **Battery life:** 10 years.

15´ Levelogger Edge	8 oz.	**90718**	**$597.00**
30´ Levelogger Edge	8 oz.	**90719**	**$597.00**
100´ Levelogger Edge	8 oz.	**90729**	**$597.00**

90710

Solinst® Levelogger Jr. Edge

An inexpensive alternative for measuring groundwater and surface water levels. Combines a datalogger, temperature sensor, Hastelloy® pressure sensor, and 5-year battery in a small, maintenance-free, waterproof stainless steel housing. Compatible with Levelogger Edge software and accessories. One year warranty.

Data storage: 40,000 points with non-volatile EEPROM. **Sample interval:** 0.5 seconds to 99 hours. **Sampling modes:** linear. **Level sensor: Accuracy:** 0.1% FS. **Resolution:** F15 Model, 0.028%; F30 Model, 0.021%. **Temperature sensor: Range:** -10°C to 40°C. **Accuracy:** ±0.1°C. **Resolution:** 0.1°C. **Battery life:** 5 years.

Levelogger Jr. Edge M5/F15	5 oz.	**90709**	**$391.00**
Levelogger Jr. Edge M10/F30	6 oz.	**90710**	**$391.00**

Solinst® Levelogger Jr. LTC

Provides low-cost convenience of three measurement parameters in one instrument. Combines conductivity and temperature sensors, pressure transducer, datalogger, and 5-year battery in a small, waterproof housing. Compatible with Levelogger Edge software and accessories. One year warranty.

Data storage: 16,000 points with non-volatile EEPROM. **Sample interval:** 0.5 seconds to 99 hours. **Sampling modes:** linear. **Level sensor: Accuracy:** 0.1% FS. **Resolution:** M10/F30 Model, 0.08˝; F30 Model, 0.24˝. **Temperature sensor: Range:** -10°C to 40°C. **Accuracy:** ±0.1°C. **Resolution:** 0.1°C. **Conductivity sensor: Range:** Full, 0-80,000 µS/cm; Calibrated, 500 µS/cm - 50,000 µS cm. **Accuracy:** 2% of reading. **Resolution:** 1 µS. **Battery life:** 5 years.

Levelogger Jr. LTC M10/F30	9 oz.	**90735**	**$1225.00**
Levelogger Jr. LTC M30/F100	9 oz.	**90736**	**$1170.00**

Solinst® Barologger Edge

Designed to monitor barometric pressure, the Barologger Edge allows for easy, accurate barometric compensation without any lag time. Compensating for atmospheric pressure allows you to most accurately obtain changes in water level.

Range: Air only. **Maximum number of readings:** 2 x 40,000 linear; 2 x 120,000 event-based or logarithmic. **Measurement rate:** 0.125 seconds to 99 hours, linear. **Level sensor accuracy:** 0.05 kPa (-10°C to 50°C). **Temperature Sensor - Range:** -20°C to 80°C. **Accuracy:** 0.05°C. **Resolution:** 0.003°C.

Barologger Edge	8 oz.	**90730**	**$310.00**

New! Solinst® Levelogger App Interface for Apple Devices

Enables your Apple® iOS 7 smart device to wirelessly communicate with a Levelogger® Series datalogger using Bluetooth® technology. Simply download the free Levelogger App on your smart device and connect the App Interface to the Direct Read Cable. Program and start Leveloggers while in the field as well as view real-time readings or download and e-mail logged data files. For use with iPhone® 5, iPad® (4th Generation), iPad® mini, and iPod touch® (5th Generation).

IP Rating: IP 64. **Operating Temperature:** -20°C to +50°C. **Batteries:** 4 AA replaceable lithium batteries (included). **Battery Life:** 500 full Levelogger downloads at 21°C. **Dimensions:** 2.25˝ x 4.875˝. **Weight:** 13.7 oz.

Solinst Levelogger App Interface for Apple Devices	14 oz.	**90721**	**$379.00**

Solinst® Leveloader

Field ready and water resistant, the Solinst® Leveloader data transfer device is designed for use with the Levelogger® Edge. The Leveloader's Real Time View feature allows for live viewing of water level and temperature data at pump tests. Scroll through data points from the Real Time View mode on the attached Levelogger itself or within saved log files. Use the Levelogger Settings file integration for easy setup of sampling schedules away from the testing site. Up to 10 Levelogger Settings files can be uploaded to the Leveloader at a time. This time-saving process ensures that site-wide investigations use similar sampling schedules, and files can be changed and replaced at any time. The Leveloader has a memory capacity of up to 32 full Levelogger downloads (1,390,000 LT readings, 930,000 LTC readings). Other features include enhanced battery life (9V alkaline or lithium), a large LCD screen, and ergonomic design. Includes connections and cables for USB, RS232, optical, and direct read interface to the top of the well.

Leveloader	2 lbs.	**90734**	**$614.00**

90758

90759

Solinst® Levelogger® Edge Accessories

Standard USB Communications Package - Includes optical reader, USB interface cable, CD with Windows® software, and manual.	11 oz.	**90763**	**$183.00**
Direct Read USB Communications Package - Includes optical reader, USB interface cable, CD with Windows® software, and manual.	1 lb.	**90733**	**$390.00**
50´ Direct Read Cable Assembly	11 oz.	**90731**	**$110.00**
100´ Direct Read Cable Assembly	1 lb.	**90732**	**$145.00**
Model 3001 Lockable Well Cap Assembly for 2˝ Wells - Supports up to two Leveloggers and ensures secure installation.	8 oz.	**90758**	**$24.00**
Model 3001 4˝ Well Cap Reducer - Use this adapter with 90758 when installing Leveloggers in a 4˝ well.	10 oz.	**90759**	**$23.00**

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New! Onset® HOBO U20L Water Level Logger

4964

This economical, research-grade water level data logger continuously measures the water level and temperature in streams, lakes, wetlands, tidal areas, and groundwater. Featuring a polypropylene housing that withstands use in fresh or salt water, the logger's non-vented design allows for hassle-free deployment. This standalone logger does not rely on cumbersome vent tubes or desiccant packs for operation, and the durable ceramic pressure sensor withstands freezing. A protective end cap allows for deployment in existing wells or stilling wells. You can select from fixed-rate or multiple logging intervals with up to eight user-defined logging intervals and durations. The logger features an Optical/USB interface, and the HOBO Optic USB Base Station and HOBOware™ Pro software (each sold separately) are required for operation. The Optic USB Base Station allows for communication between the logger and a PC. HOBOware Pro Software provides for easy conversion to accurate water level readings that are fully compensated for barometric pressure, temperature, and water density. An extra water level logger can be used for barometric compensation when needed (one barometric data set can be used with all water level loggers in an area).

13-Foot Depth Water Level Logger

Range - Water Level: 0 to 13 ft. (0 to 4m), 0 to 21 psia (0 to 145 kPa); **Temperature:** -4°F to 122°F (-20°C to 50°C). **Accuracy - Water Level (Typical Error):** ±0.013 ft. (±0.4 cm); **Temperature:** ±0.79°F from 32°F to 122°F (±0.44°C from 0°C to 50°C). **Resolution - Water Level:** 0.005 ft. (0.14 cm); **Temperature:** 0.18°F at 77°F (0.10°C at 25°C).

U20L Water Level Logger, 13´ Range
6 oz. **90751 $299.00**

30-Foot Depth Water Level Logger

Range - Water Level: 0 to 30 ft. (0 to 9m), 0 to 30 psia (0 to 207 kPa); **Temperature:** -4°F to 122°F (-20°C to 50°C). **Accuracy - Water Level (Typical Error):** ±0.03 ft. (±1.0 cm); **Temperature:** ±0.79°F from 32°F to 122°F (±0.44°C from 0°C to 50°C). **Resolution - Water Level:** 0.007 ft. (0.21 cm); **Temperature:** 0.18°F at 77°F (0.10°C at 25°C).

U20L Water Level Logger, 30´ Range
6 oz. **90752 $299.00**

100-Foot Depth Water Level Logger

Range - Water Level: 0 to 100 ft. (0 to 30m), 0 to 58 psia (0 to 400 kPa); **Temperature:** -4°F to 122°F (-20°C to 50°C). **Accuracy - Water Level (Typical Error):** ±0.1 ft. (±3.0 cm); **Temperature:** ±0.79°F from 32°F to 122°F (±0.44°C from 0°C to 50°C). **Resolution - Water Level:** 0.013 ft. (0.41 cm); **Temperature:** 0.18°F at 77°F (0.10°C at 25°C).

U20L Water Level Logger, 100´ Range
6 oz. **90753 $299.00**

Onset® HOBO U20 Water Level Logger

4534

Ideal for recording water levels and temperatures in wells, streams, lakes, wetlands and tidal areas. The HOBO Water Level Logger is a high-accuracy, pressure-based water level recording device that operates as a standalone unit and does not rely on cumbersome vent tubes and desiccant packs for operation, simplifying deployment and eliminating many maintenance issues.

Features an Optical/USB interface, a durable ceramic pressure sensor, and multiple-rate sampling for faster sampling at critical times such as when pumping starts or stops. Includes calibration certificate of accuracy versus NIST-traceable standards at three pressure points distributed through the range. Operation requires use of the HOBO Optic USB Base Station and HOBOware™ Pro software (each sold separately).

Optic USB Base Station

Required for communications between the Logger and a PC. Plug the Optic Base Station into the USB port on a PC, and then plug the Logger into the Optic Base Station using the appropriate coupler (Couplers for all compatible loggers are included). A full Logger offloads in less than 30 seconds.

HOBOware™ Pro Software

Provides easy conversion to accurate water level readings, fully compensated for barometric pressure, temperature and water density. An extra water level logger can be used for barometric compensation when needed (one barometric data set can be used with all water level loggers in an area).

New! 13-Foot Depth Water Level Logger

Provides ±0.075% full-scale accuracy (typical error) with a 13´ measurement range and 0.005´ resolution.

Range - Water Level: 0 to 13 ft. (0 to 4m), 0 to 21 psia (0 to 145 kPa); **Temperature:** -4°F to 122°F (-20°C to 50°C). **Accuracy - Water Level (Typical Error):** ±0.01 ft. (±0.3 cm); **Temperature:** ±0.67°F at 68°F (±0.37°C at 20°C). **Resolution - Water Level:** 0.005 ft. (0.14 cm); **Temperature:** 0.18°F at 68°F (0.1°C at 20°C).

U20 Water Level Logger, 13´ Range
12 oz. **90701 $495.00**

30-Foot Depth Water Level Logger

Provides ±0.05% full-scale accuracy (typical error) with a 30´ measurement range and 0.007´ resolution.

Range - Water Level: 0 to 30 ft. (0 to 9m), 0 to 30 psia (0 to 207 kPa); **Temperature:** -4°F to 122°F (-20°C to 50°C). **Accuracy - Water Level (Typical Error):** ±0.015 ft. (±0.5 cm); **Temperature:** ±0.67°F at 68°F (±0.37°C at 20°C). **Resolution - Water Level:** 0.007 ft. (0.21 cm); **Temperature:** 0.18°F at 68°F (0.1°C at 20°C).

U20 Water Level Logger, 30´ Range
13 oz. **90705 $495.00**

New! 100-Foot Depth Water Level Logger

Provides ±0.05% full-scale accuracy (typical error) with a 100´ measurement range and 0.013´ resolution.

Range - Water Level: 0 to 100 ft. (0 to 30m), 0 to 58 psia (0 to 400 kPa); **Temperature:** -4°F to 122°F (-20°C to 50°C). **Accuracy - Water Level (Typical Error):** ±0.05 ft. (±1.5 cm); **Temperature:** ±0.67°F at 68°F (±0.37°C at 20°C). **Resolution - Water Level:** 0.013 ft. (0.41 cm); **Temperature:** 0.18°F at 68°F (0.1°C at 20°C).

U20 Water Level Logger, 100´ Range
12 oz. **90702 $495.00**

Accessories for Onset® HOBO U20 Water Level Loggers

Optic USB Base Station	10 oz.	**90706**	**$124.00**
HOBOware Pro for Windows and Macintosh	10 oz.	**89479**	**$99.00**
HOBO Waterproof Data Shuttle	13 oz.	**90707**	**$249.00**
Protective Housing for Data Loggers	11 oz.	**90841**	**$46.00**

▲ **Note:** Non-returnable if opened or seal is broken.

onset computer corporation

HOBO® Dissolved Oxygen Logger

2856

This precision, self-contained data logger is ideal for measuring concentrations of oxygen in lakes, streams, rivers, estuaries, and coastal waters. Because oxygen concentration is essential for healthy aquatic life, this data logger is a valuable tool for aquatic biologists, hydrologists, and other research professionals. The data logger records up to 21,700 sets of dissolved oxygen and temperature measurements, and the logger utilizes optical dissolved oxygen sensor technology for long-lasting calibration with less maintenance. The optical USB interface allows for high-speed, reliable data offload. Includes data logger, dissolved oxygen sensor cap, protective guard, and calibration boot with sponge. HOBOware® Pro software and an Optic USB Base Station (each sold separately) are required for operation. This logger is also compatible with the HOBO Waterproof Data Shuttle (sold separately), allowing for easy and reliable data transfer and retrieval.

Dissolved Oxygen - Sensor Type: Optical. **Measurement Range:** 0 to 30 mg/L. **Calibrated Range:** 0 to 20 mg/L; 0 to 35°C (32°F to 95°F). **Accuracy:** 0.2 mg/L up to 8 mg/L; 0.5 mg/L from 8 to 20 mg/L. **Resolution:** 0.02 mg/L. **Response Time:** to 90% in less than 2 minutes. **DO Sensor Cap Life:** 6 months, cap expires 7 months after initialization. **Temperature - Temperature Measurement/Operating Range:** -5°C to 40°C (23°F to 104°F); non-freezing. **Accuracy:** 0.2°C (0.36°F). **Resolution:** 0.02°C (0.04°F). **Response Time:** to 90% in less than 30 minutes. **Logger - Memory:** 21,700 sets of DO and temperature measurements (64 KB total memory). **Logging Rate:** 1 minute to 18 hours. **Time Accuracy:** ±1 minute per month at 0 to 50°C (32°F to 122°F). **Battery:** 3.6 V lithium battery; factory replaceable. **Battery Life:** 3 years (at 5 minute logging). **Download Type:** Optical. **Depth Rating:** 100 m (328 ft.). **Wetted Materials:** Black Delrin®, PVC, EPDM o-rings, silicone bronze screws; rated for saltwater use. **Dimensions:** 1.56´´dia. x 10.5´´L.

HOBO Dissolved Oxygen Logger	1 lb.	**90711**	**$1250.00**
Calibration Solution for HOBO Dissolved Oxygen Logger	1 lb.	**90712**	**$25.00**
HOBOware Pro for Windows and Macintosh	10 oz. ▲	**89479**	**$99.00**
Optic USB Base Station	10 oz.	**90706**	**$124.00**
HOBO Waterproof Data Shuttle	13 oz.	**90707**	**$249.00**

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onset computer corporation

HOBO® Conductivity Loggers

7777

High-accuracy, cost-effective water quality data loggers for measuring conductivity and temperature. Easy to deploy and maintain, features include a non-contact sensor to minimize drift-related measurement errors, open access to the sensor for cleaning, and the HOBOware Pro software enables start/end-point calibration to compensate for any fouling and provides easy conversion to specific conductance and salinity using the Practical Salinity Scale 1978 (PSS-78). USB optical interface provides high-speed, reliable data offload in wet environments. Compatible with the HOBO Waterproof Shuttle for easy and reliable data retrieval and transport.

Memory: 18,500 temperature and conductivity measurements when using one conductivity range; 14,400 sets of measurements when using both conductivity ranges (64 KB total memory). **Sample rate:** 1 second to 18 hrs, fixed or multiple-rate sampling with up to 8 user-defined sampling intervals. **Battery life:** 3 years (@ 1 min logging). **Maximum Depth:** 70 m (225'). **Operating Range:** -2 to 36°C (28° to 97°F) - non freezing. **Weight:** 6.82 oz.; **buoyancy in freshwater:** -2.11 oz. **Size:** 1.25″ diameter x 6.5″, 1/4″ hole.

HOBO® Conductivity Logger for Freshwater

Use for measuring conductivity and temperature in streams, lakes, and other freshwater sources. Ideal for monitoring aquifers for saltwater intrusion and road and agricultural runoff.

Conductivity Range: Low Range: 0 to 1,000 µS/cm; **Full Range:** 0 to 10,000 µS/cm. **Temperature Range:** 41°F to 95°F (5°C to 35°C). **Conductivity Accuracy:** 3% of reading, or 5 µS/cm, whichever is greater. **Temperature Accuracy:** 0.2°F (0.1°C). **Conductivity Resolution:** 1 uS/cm. **Temperature Range:** 0.02°F (0.01°C). **Response time:** 1 second to 90% of change.

HOBO Conductivity Logger for Freshwater	8 oz.	**90838**	**$750.00**

HOBO® Conductivity Logger for Saltwater

90841

Measures actual conductivity and temperature plus provides specific conductance at 25°C (77°F) and salinity with the HOBOware® Conductivity Assistant (included in the HOBOware Pro Software). Easily deployable, this rugged logger is ideal for environments with relatively small changes in salinity (±5,000 uS/cm), such as saltwater bays, or to detect salinity events, such as upwelling, rainstorm, and discharge events. An optional protective housing is available to help better protect the logger, reduce fouling, and simplify mounting in harsh environments.

Conductivity Range (Calibrated Range): High Range, 5,000 to 55,000 uS/cm; Low Range, 100 to 10,000 uS/cm; Over the range of 41°F to 95°F(5°C to 35°C). **Temperature Range:** 28°F to 97°F (-2°C to 36°C). **Specific Conductance Accuracy (Calibrated Range):** Low Range, 3% of reading or 50 uS/cm, whichever is greater; High Range, up to 5% of reading, in waters within a range of ±3,000 uS/cm of the calibration point (waters with greater variation can have substantially greater error). **Temperature Accuracy:** 0.1°C (0.2°F) (in calibrated range). **Resolution:** Conductivity, 2 uS/cm; Temperature, 0.02°F (0.01°C). **Drift:** Conductivity, up to 12% sensor drift per month, exclusive of drift from fouling. **Response time:** 1 second to 90% of change (in water). **CE Compliance:** Complies with all relevant directives in the European Union (EU).

HOBO Conductivity Logger for Saltwater	8 oz.	**90839**	**$750.00**
Optic USB Base Station	10 oz.	**90706**	**$124.00**
HOBOware Pro for Windows and Macintosh ▲	10 oz.	**89479**	**$99.00**
HOBO Waterproof Data Shuttle	13 oz.	**90707**	**$249.00**
Protective Housing for Data Loggers	11 oz.	**90841**	**$46.00**

Global Water Instrumentation, Inc.

Global Water Water Level Loggers

4091

For monitoring surface water, groundwater, storm drains, and sewers.

Accurate and reliable, these water level loggers feature a datalogger and pressure sensor for remote monitoring and recording of water level data. The water level logger's weather-resistant, cylindrical enclosure is compact enough to fit inside a 2″ diameter pipe. Up to 24,000 readings can be recorded, and the level logger is programmable in intervals ranging from one reading per second to one reading per day. Select from linear or logarithmic recording. The silicon pressure sensor is barometric and temperature compensated and is fully encapsulated so that "O" rings and underwater connectors will not fail. Also included is Global Water Software, a Windows®-based software which allows for easy access to stored data and makes setting options easy. Downloaded data can be opened in a spreadsheet program for analysis and graphic presentation.

Recording rate: linear fixed intervals from 1 per second to every 32,000 seconds (also 0 to 32,000 minutes, hours, and days); logarithmic test (for pump and slug test); event-based (value set by user). **Resolution:** 12-bit. **Accuracy:** 0.1% of full scale at constant temperature; 0.2% over temperature range. **Range:** 25′ Model, 0 to 15′; 50′ Model, 0 to 30′. **Computer interface:** USB, cable provided. **Power:** internal 9V DC battery, powers logger and sensor for up to three years. **Dimensions: Pressure transducer:** 0.812″ diameter x 7″L; **Data logger enclosure:** 1.875″ diameter x 12″L.

Logger with 25′ Cable, 15′ Range	3 lbs.	**90714**	**$983.00**
Logger with 50′ Cable, 30′ Range	5 lbs.	**90715**	**$1026.00**

▲ **Note:** Non-returnable if opened or seal is broken.

YSI/Sontek Castaway CTD

7474

Hydrographic profiling of conductivity, temperature, and depth.

A hand deployable conductivity, temperature, and depth instrument for hydrologic profiling. An integrated LCD screen displays an intuitive user interface for deployment and immediate review of collected data including both statistics and profile plots. Integrated GPS virtually eliminates the need for field notes. The beginning and end of every cast is logged to the internal recorder with position and time. The watertight, compact design features a tough rubber jacket for additional durability in harsh conditions. The system utilizes Bluetooth wireless communication, so no field cables or connectors are needed. Two AA batteries power the CTD for several days at a time and are easily replaceable. The included GIS software quickly downloads data from each of your CastAway CTD's automatically over Bluetooth to show the location of each cast on an interactive map. Customize your CTD data, GPS information, and plot comparisons all in one place. Analysis, plotting, editing, and exporting of data are quick and easy tasks. Use the Castaway CTD with a standard line, fishing rod, diving reel or other such device (not included). Includes a rugged plastic case with a foam insert.

Conductivity: Range, 0-100,000 µS/cm. Accuracy, 0.25% ± 5 µS/cm. Resolution, 1 µS/cm. **Temperature:** Range, -5°C to 45°C. Accuracy, 0.05°C. Resolution, 0.01°C. **Pressure:** Range, 0-100 dBar. Accuracy, 0.25% of FS. Resolution, 0.01 dBar. **Salinity (Derived):** Range, Up to 42 (PSS-78). Accuracy, 0.1 (PSS-78). Resolution, 0.01 (PSS-78). **Sound Speed (Derived):** Range, 1400-1730m/s. Accuracy, 0.15 m/s. Resolution, 0.01 m/s. **GPS Accuracy:** 10m. **Sample Rate:** 5Hz. **Communications:** Internal BlueTooth Radio (Class 2); up to 10m range. **Dimensions:** 2.8″ Dia x 8″H. **Weight:** 1.**0 lbs, GPS:** 10m accuracy; Acquisition time, 1 min. from cold start. **Power:** 2 Standard AA batteries for 40+ hours of operation. **Recorder:** 15 MB recorder; Good for 750+ casts during typical use.

YSI Castaway CTD	4 lbs.	**76450**	**$5515.00**

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WATER MARK®

WaterMark® Water Level Meter with 5/8″ Probe

4812

For measuring the depth of water in wells, boreholes, and standpipes. Accurate tapes meet ASME standards with black markings every 1/100 ft. Tapes are marked in red at every ft. mark for faster readings, are made not to adhere to the wet surfaces of the well, and hang straight in the well. The corrosion-proof, stainless steel probe and high tensile strength cables ensure a long lasting tape and probe. The impact-resistant and crack-proof all aluminum reels are backed with a lifetime warranty from the manufacturer. A 9V battery drawer provides easy battery replacement. Standard external mil-spec sensitivity control ensures full unit function with clear and accurate signals in any range of water conductivity including cascading water. The electronics module is conformal coated to prevent corrosion and can be removed for decontamination of the reel and tape. 9V Battery is included.

WaterMark 100′ Water Level Meter with 5/8″Probe	E	9 lbs.	**90740**	**$571.00**
WaterMark 200′ Water Level Meter with 5/8″Probe	E	10 lbs.	**90741**	**$670.00**
WaterMark 300′ Water Level Meter with 5/8″Probe	E	12 lbs.	**90742**	**$818.00**

WATER MARK®

WaterMark® Water Level Meter with Bottom Detecting Sensor

7218

Two instruments in one - measures static water level and total well depth in a single reading! The shrouded low profile 5/8″ Teflon probe is fully pressure rated to 2,000 psi and it works properly in cascading water or in wells with severe condensation. Lightweight aluminum reel construction with a steel frame that features a built-in tape guide and well casing hook to protect the tape and unit. The polyethylene tape with stainless steel conductors meets or exceeds US-GGG-T-106E and the European Class II standards. Electronics are conformal coated to protect against water damage. Buzzer alarm has an adjustable volume for operator preference.

100′	E	9 lbs.	**90645**	**$592.00**
300′	E	12 lbs.	**90646**	**$850.00**
500′	E	15 lbs.	**90647**	**$1103.00**

Peristaltic Pumps page 349

Manufacturer's Warranty **Lifetime** Reel

WATER MARK®

WaterMark® Small Water Level Meter with 5/8″ Probe

4813

This small water level meter fits easily inside a backpack and is perfect for use in remote sites where portability is a primary concern. Features a narrow 5/8″ (16 mm) diameter stainless steel and Teflon® probe which is ideal for use in piezometers and stilling pipes, an easy-to-read (ASME Standard) heavy duty polyethylene jacketed tape, stainless steel conductors, and the fully-encapsulated, modular microprocessor control panel features a battery drawer, audible signal, and light. Operates on one 9V battery (included). Lifetime warranty from the manufacturer on the reel.

WaterMark 75′ Small Water Level Meter with 5/8″ Probe, Tape is graduated every 1/100 ft. with black line, a black number for every 1/10 ft., and a red number for every foot.	E	9 lbs.	**90743**	**$479.00**
WaterMark 22m Small Water Level Meter with 5/8″ Probe, Tape is graduated with a black bar for every mm, a black number for every cm, and a red number for every meter.	M	9 lbs.	**90744**	**$479.00**

WATER MARK®

WaterMark® Oil/Water Interface Meters

2732

Manufacturer's Warranty **10 Year** Components

Manufacturer's Warranty **Lifetime** Reel

Take measurements in 1/2″ diameter wells!

With a 7/16″ diameter stainless steel probe, these meters are ideal for use in wells as narrow as 1/2″ in diameter. Use the meters to measure the thickness of floating (LNAPL) or sinking (DNAPL) products in monitoring wells or storage tanks, as well as for detecting the presence of water in storage tanks. Built to withstand rugged working conditions, the meters feature "smart" electronics which ignore severe scratches, condensation, and dripping. Two sensitivity controls for the water sensing and fluid sensing circuits allow for quick readings through heavy oils and prevent false positives of water or hydrocarbons. The tapes feature 1/100 ft. graduations, and a Kynar jacket protects the markings on the tape. Tapes meet or exceed federal specification US GGG-T-106E and European EEC Class II standard for a guaranteed accuracy of 0.008%. Manufacturer's 10-year warranty on all components and a lifetime warranty on the reel.

E English
M Metric

Power: 9V battery. **Overall height:** 14″. **Face plates:** 9.25″ dia.

60′	E	8 lbs.	**90779**	**$835.00**
100′	E	10 lbs.	**90780**	**$960.00**
200′	E	12 lbs.	**90781**	**$1060.00**
300′	E	10 lbs.	**90789**	**$1310.00**
9V Alkaline Battery, single		3 oz.	**02179**	**$3.20**

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1 New! Solinst® Model 122M Mini Interface Meters
3376

Small enough to fit in a backpack, this oil/water interface meter provides accurate measurements of product level and thickness in wells and tanks. When the 5/8″ diameter stainless steel probe enters liquid, an infrared beam is refracted away from the detector. An audible tone and light indicate either non-conductive or conductive liquid. Provides an accuracy of 1/200 ft. (or 1.0mm). The 0.12″ (3mm) coaxial cable features a PVDF jacket with permanent laser markings and a chemical-resistant surface that is easy to decontaminate. One 9V battery provides 300 hours of operation.

25m, Graduated in meters and centimeters with markings every mm.	M	4 lbs.	**90761**	**$797.00**
80′, Graduated in feet and tenths with markings every 1/100 ft.	E	4 lbs.	**90762**	**$797.00**

1

2 Solinst® Model 122 Interface Meters
3376

Detects and measures the level and thickness of air/product or water/product interfaces.

Simple to operate, easily cleaned, and lightweight, it automatically tests the circuitry each time it is turned on. The 5/8″ diameter probe allows easy access through tight spaces and into narrow wells. To detect liquids, this meter uses a probe with an infrared beam and receptor contained within a cone-shaped tip. When the probe enters liquid, the beam is refracted from the detector, activating a steady tone and light when the liquid is non-aqueous product. If the liquid is water, the conductivity of water completes a conductivity circuit which overrides the infrared circuit, activating an intermittent tone and light. Both optical and electronic sensors are precisely at the zero point, giving an accuracy of 1/200 ft. from the pre-marked tape. PVDF tape line is permanently laser-marked in feet, tenths, and 100ths. Stranded stainless steel and copper-coated steel conductors are embedded in the flat-tape cable, preventing cable stretch and providing strength. Easy-to-splice tape is attached to probe. Tape guide/datum provides repeatably accurate measurements and protects tape from damage on rough edges of casings. Powered by one 9V battery (included). Automatic shut-off after 10 minutes assures battery life of approximately 120 hours. Rugged, freestanding reel with carrying handle, carrying bag with shoulder strap, and tape guide included.

100′	E	8 lbs.	**90765**	**$942.00**
200′	E	10 lbs.	**90767**	**$1089.00**
9V Alkaline Battery, single		3 oz.	**02179**	**$3.20**

2

3 Solinst® Model 107 TLC Meters with Laser Marked Tape
3779

Accurate conductivity and temperature measurements are shown on a rotating LCD display on the face of the reel for easy reading at a glance. A "smart" conductivity sensor with platinum electrodes reads conductivity from 0 to 80,000µS/cm, accurate to 5% of the reading or 100µS (whichever is greater). The probe automatically adjusts measured conductivity values to display as specific conductance and thus provide standardized, repeatable, comparable measurements. Temperature is displayed in °C or °F. Water level and probe depth measurements are read from the PVDF flat tape which is laser marked every 1/100 ft., Certified Traceable to National Standards. A buzzer is activated when the zero point of the probe enters the water and again when the meter is withdrawn from the water. The durable PVDF flat tape reels smoothly, remains flexible, and hangs straight in the well no matter what the temperature is. A tape guide/datum is included for use when profiling a well to protect the tape and allow the depth measurement to be read at the marked position on the tape guide. The menu-driven display is easy to navigate, and the meter automatically shuts off after 8 minutes to preserve battery power. One 9V alkaline battery has a battery life of 90 hours. Carrying case included.

Model 107 TLC Meter, 100′	E	9 lbs.	**90722**	**$1148.00**
Model 107 TLC Meter, 200′	E	11 lbs.	**90723**	**$1288.00**
Model 107 TLC Meter, 300′	E	10 lbs.	**90724**	**$1458.00**
Model 107 TLC Meter, 500′	E	21 lbs.	**90725**	**$1767.00**

3

E English M Metric

Kolor Kut Modified Water Finding Paste
3379

Paste changes from dark brown to bright red on contact with water. Phase separated alcohol solutions with as little as 6% water will turn the paste yellow. This product is designed for the use in reformulated and oxygenated fuel systems. After testing, it seems that alcohol or deicing agents in fuels have very little effect on the performance of the product. 2.5 oz. Tube.

Kolor Kut Modified Water Finding Paste 4 oz.	**76563**	**$9.50**
	12+	**$8.50**

Kolor Kut Water Finding Paste
3379

Provides an accurate, easily visible water gauge even under adverse lighting conditions.

Upon contact with water, this golden-brown-colored paste turns a brilliant red. You can also use it to successfully gauge all petroleums and by-products for water content, plus sulfuric acid, nitric acid, hydrochloric acid, ammonia, soap solutions, salt, and other chloride solutions. 3 oz. Tube.

Kolor Kut Water Finding Paste 4 oz.	**76561**	**$4.60**
	10+	**$4.10**

Kolor Kut Gasoline Gauging Paste
3380

A most effective top level indicator!

This light pink paste turns to a contrast of red upon contact with gasoline, naphtha, kerosene, gas oil, crude oil, jet fuels, and various chemicals. 2-1/4 oz. Plastic Jar.

Kolor Kut Gasoline Gauging Paste, 2-1/4 oz. Plastic Jar 4 oz.	**76562**	**$4.60**
	10+	**$4.10**

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Solinst® Model 101 P2 Water Level Meters

3373

Accurate, reliable and easy-to-use.

These top-of-the line water level meters provide features you've been asking for: a 3/8″W polyethylene tape line with black graduations permanently embossed; seven stranded stainless steel conductors in the tape line; light and audible buzzer which sounds when contact is made with water; external sensitivitiy control for varying water conductivity; and a sturdy, stand-alone reel with on/off switch, brake and carry handle (carrying cases are sold separately below). The Model 101 is available in either English or Metric with a 0.55″ O.D. P2 stainless steel probe. The P2 probe is designed for momentarily going underwater and is repairable. Powered by 9 volt battery which is located in an easy access drawer in the reel. English tape line: black graduations in feet, 10ths and 100ths with markings every 1/100 ft. and foot marks in red. **Metric tape line:** black graduations in meters, centimeters and decimeters with markings every millimeter and meter graduations in red. **English tape line:** black graduations in feet, 10ths and 100ths with markings every 1/100 ft. and foot marks in red. Metric tape line: black graduations in meters, centimeters and decimeters with markings every millimeter and meter graduations in red. ***See Chart Below.***

Solinst® Model 101 P7 Water Level Meters with Laser Marked Tape

7932

For accurately measuring the depth to water in wells, boreholes, standpipes, and tanks. Easy-to-use, the Model 101 P7 features a pressure-proof probe rated to 500 psi and permanently laser marked PVDF flat tape that is traceable to NIST and EU measurement standards. Reads accurately to 1/100 ft. or each millimeter. The corrosion-proof stainless steel probe is submersible up to 1000 ft. (300 m), making it ideal for measuring total well depth. The sensor at the tip of the probe provides consistent measurements with almost zero displacement. The tape seal plug design allows the probe to be quickly and easily replaced. Each tape conductor on the 3/8″ wide PVDF flat tape contains 13 strands of stainless steel and 6 strands of copper-coated steel, making the tape non-stretch and high in tensile strength and electrical efficiency. The thick dog bone design of the tape prevents adherence to wet surfaces allowing it to hang straight in application. The stand-alone reel features a convenient carry handle, sturdy probe holder, on/off sensitivity switch, light, buzzer, battery test button, brake, and a tape guide stored on the frame. ***See Chart Below.***

Solinst® Model 102 and Mini 102 Water Level Meters

7285

Designed to measure groundwater levels, especially in small diameter tubes and piezometers or where a flexible cable is needed to snake past an in-well pump. The cable has a heavy-duty jacket and stainless steel coaxial conductors for strength. Permanent markings are precisely laser etched on the cable every 1/100 ft. or each millimeter. When the probe enters water the electrical circuit is completed, sending a signal back to the reel where a light and clearly audible buzzer are activated. Level is then determined by taking a reading directly from the cable at the top. A sensitivity control allows the buzzer to be turned off while in cascading water, and ensures a clear signal in both high and low conductivity conditions. P1 Probe is stainless steel with 12 weights and measures 1/4″ dia. x 1.5″ long.

Solinst® Model 102 Water Level Meter

Ergonomically designed to be comfortable in use and stable when placed on the ground. Features an easy access battery drawer, an excellent brake, a convenient carrying handle, an an on/off sensitivity switch, light, buzzer and battery test button.

Model 102, 100′	E	7 lbs.	**90737**	**$389.00**
Model 102, 200′	E	8 lbs.	**90738**	**$429.00**
Model 102, 300′	E	10 lbs.	**90739**	**$489.00**
Model 102, 500′	E	12 lbs.	**90757**	**$654.00**

Solinst® Model Mini 102 Water Level Meter

The laser marked coaxial cable is mounted on a convenient small reel that is light-weight and fits easily into a mini carrying case or backpack. The accurate cable is marked each 1/100 ft. or each millimeter.

Mini 102, 80′	E	4 lbs.	**90716**	**$363.00**
Mini 102, 25m	M	4 lbs.	**90717**	**$363.00**

Level Loggers
pages 356 & 357

Disposable Bailers
page 352

Solinst® Model 101 Water Level Meters

	Weight	100′	200′	300′	500′	1000′	30m	100m	150m	$
P2 Stainless Steel – For momentarily submersing	8 lbs.	**90790**					**90617**			**$476.00**
	9 lbs.		**90615**							**$616.00**
	10 lbs.			**90792**				**90620**		**$756.00**
	16 lbs.				**90793**					**$964.25**
									90621	**$967.00**
	21 lbs.					**90637**				**$1667.00**
P7 Enviro Probe – Completely submersible, rated for pressures of up to 1000′	9 lbs.	**90745**								**$486.00**
	10 lbs.		**90746**							**$636.00**
	12 lbs.			**90747**						**$788.95**
	18 lbs.				**90748**					**$1017.00**
	27 lbs.					**90749**				**$1767.00**
Carrying Cases	**Weight**								**SN**	**$**
For 100′ - 300′ & 30m - 100m	1 lb.								**90798**	**$80.75**
For 500′, 1000′ & 150m	1 lb.								**90774**	**$80.95**

E English M Metric

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Well Sounder 2010 PRO
7499

A highly accurate instrument designed for measuring static water level in wells, piezometers, or boreholes. This portable handheld unit uses sound waves to measure the distance from the top of the well to the water level, eliminating the need to lower anything into the well. Unlike standard water level tapes, these acoustic meters are free from well contamination issues, and there is no clean up and nothing to get stuck in the well. Simply place the probe into a well cap opening and turn the unit on. Within seconds, the unit will display the static water level measurement. Will work on crooked, straight, or coiled pipes with up to a 90% blockage. Requires no external equipment for configuration settings and is capable of logging, storing, and downloading 25 million time/date stamped data points. Key features include immediate data capture, auto temperature compensation, calculation of drawdown and recovery rates, real-time clock/calendar to time stamp the log data, USB download, plus it is weather-resistant. Includes an industrial strength carrying case.

Measurement: Range, 9 to 2,000 feet; Resolution, 0.05 ft. Accuracy - 0.1 ft. **Logging:** Memory, nonvolatile flash memory for 25 million time/date stamped data points in addition to calibration and user data. Logging rates, 1 sec to 60 minutes per sample. **Environmental:** Temperature, 0°F to 110°F. Humidity, 10 to 90% non-condensing. **Display:** 2 x 16 character LCD. **Alarms:** high and low 10 to 2,000 ft. **Output:** USB or serial. **Serial Output:** baud 300 - 57600, 8 data bits, one stop bit. (19200 baud default). **Power:** External Power, 6.5 to 12VDC at 50ma. Internal Power, 6 AA alkaline batteries provide continuous use for approx. 80 hours or up to 21 days in power save mode. Real time clock, Li Ion 3V battery CR2032. **Dimensions:** 4″ x 7.5″ x 1.25″. **Control Unit Weight:** 14 oz. with batteries. **Probe Weight:** 5.5 oz.

Well Sounder 2010 PRO	5 lbs.	**90661**	**$995.00**

Model 300 Sonic Water Level Meter
8066

This self-contained, battery operated meter uses sound waves to measure well water level. Fast, accurate measurements are possible in the field or anywhere, without the use of down-hole instrumentation. Lightweight, compact, versatile, and easy to operate, the water level meter allows you to measure crooked wells, wells with cascading water, partially cased rock wells, wells with submersible pumps, capped or uncapped wells, wells with pipes and wires inside, plus you can even measure the length of coiled pipe. As long as the obstructions take up no more than half of the bore area, the meter will not suffer any loss of accuracy. The sonic water level meter should only be used on wells under 10 inches in diameter as the accuracy decreases with larger diameter wells.

Measurement Range: Normal 10-500′ or Deep up to 1200′. **Readout Accuracy:** +0.1′. **Measurement Accuracy:** +0.2% of reading*. **Operating Temperature:** 30°F to 140°F. **Power:** 8 AA dry cell batteries. **Dimensions:** (excluding sonic measuring duct) 7″L x 4″H x 5″W. **Sonic Measuring Duct Diameter:** 5/8″. Hole diameter must be at least large enough for 1/2 pipe thread. **Sonic Measuring Duct Length:** 2″. **Weight:** 3.5 lbs.

Model 300 Sonic Water Level Meter	5 lbs.	**90650**	**$1140.00**

*Under certain conditions, accuracy may exceed this limit; when the well casing is discontinuous; when the well casing is highly corroded or rough; when large obstructions e.g. pipe joints or wiring exceed half the area of the well casing; if the well casing is less than 2 inches or greater than 10 inches in diameter.

WATER•MARK®

WaterMark® Stainless Steel Chalk Tape
3381

Use to measure all types of distance lengths, including depth of standing water.

Attach weight and lower tape. Chalk the tape as it descends (you can use a sock filled with chalk). When the tape is reeled in, check for the spot where chalk has washed off. This shows actual depth or water level. Quality construction with wood handles, brass frame, and tape with etched markings. Order weight separately. Requires the 450g stainless steel weight. Weights make up the first foot of the tape graduations.

Measures to 100′ (ft., 10ths, 100ths) on one side, 30m (mm, cm, m) on other side	C	2 lbs.	**89399**	**$119.00**
450g Stainless Steel Weight		14 oz.	**89403**	**$59.00**
100′/30m Tape Refill	C	2 lbs.	**89400**	**$99.00**

Cam-Line Measuring Tape
5652

Determine water depths in wells easily!

Nylon-coated, stainless steel, wind-resistant cable is designed for determining depth of water in wells quickly, in one operation. Rewinds in approximately 75 seconds. Measuring grommets are stamped on line at 1′ intervals. Can also be used by surveyors in the field where trees, crops, or high weeds are a hindrance. Total length for the tape is 300′. Comes complete with handle and lead weight.

300′ Tape	E	3 lbs.	**39125**	**$189.95**
			2+	**$179.95**
300′ Refill	E	1 lb.	**39122**	**$126.95**
Replacement Lead Weight		8 oz.	**39123**	**$9.60**

Ultra Fine Marking Chalk
1235

8 oz. chalk powder in assorted colors.
Plastic squeeze bottle.

Red	White	Blue	Weight	Each	12+
57061	**57062**	**57063**	12 oz.	**$1.40**	**$1.15**

LaCrosse® Boots
page 638

E English
C Combination English and Metric

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Bright Dyes™ Fluorescent Dyes – NSF Certified for Potable Water

3388

The professional's choice for all types of water tracing projects.

These fluorescent dyes provide a higher degree of environmental safety and can be used on potable water.

Fluorescent FLT Yellow/Green Dye

One fluorescent yellow/green tablet in 60 gallons of water gives a strong visual concentration of 1 ppm, or one tablet in 600 gallons of water will give a light visual concentration of 100 ppb. Tablets dissolve in five to eight minutes.

Bottle of 200 Tablets 13 oz.	**92993**	**$37.25**
	4+	**$34.25**

Fluorescent Red FWT Dye

Depending on concentration, the dye color ranges from a bright dark red to magenta color. One tablet in 60 gallons of water gives a strong visual concentration of 1 ppm, or one tablet in 600 gallons of water will give a light visual concentration of 100 ppb.

Bottle of 200 Tablets 10 oz.	**92991**	**$43.75**
	4+	**$40.50**

Bright Dyes™ Fluorescent Red Dye Tablets

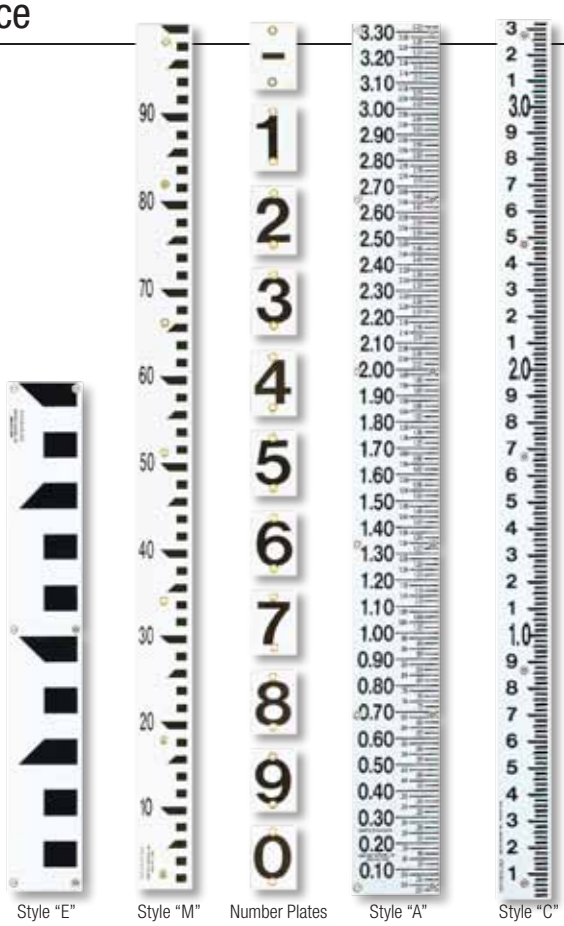
3386

For tracing small volumes of water: septic system analysis, leak detection, plumbing and sewage tracing.

One fluorescent red tablet in 60 gallons of water gives a strong visual concentration of 1 ppm, or one tablet in 600 gallons of water will give a light visual concentration of 100 ppb. Dissolves in five to eight minutes. 200 Tablets per plastic bottle. Tablets are made from Rhodamine B and are **not for use in or around potable water**.

Fluorescent Red, Bottle of 200 Tablets 10 oz.	**92992**	**$37.25**
	4+	**$34.25**

Note: See applications on facing page



WATER•MARK®

WaterMark® Stream Gauges

3390

Our exclusive line of high quality stream gauges.

Made in USA

Finished with a special porcelain enamel to ensure easy reading and resist rust or discoloration. Can even be used in salt water! Each gauge or gauge section is accurately graduated. Provided with grommeted holes for fastening with No. 8 round head screws. Available in four standard styles.

WaterMark® Style "E" Stream Gauge

Graduated in feet and tenths, unnumbered. 3-1/2″ Wide. Available in 1′, 2′ and 5′ sections. Separate number plates (sold separately) are fastened on a plank or pier wall to number any elevations desired.

WaterMark® Style "M" Stream Gauge

Metric gauge, 65 mm wide. Divided into centimeters with each decimeter numbered. Gauges for any elevation may be assembled by using separate number plates (sold separately).

WaterMark® Number Plates for Stream Gauges For "E" and "M" Gauges

Each Number Plate consists of a black numeral on a 2″ x 3″ white porcelain enameled iron plate.

WaterMark® Style "A" Stream Gauge

Marked at every foot, tenth, and 0.02 foot with total elevations. 4″ Wide. Available in 3-1/3′ sections for numbering to 13.33′.

WaterMark® Style "C" Stream Gauge

Graduated to hundredths and marked at every foot and every tenth. 2-1/2″ Wide. Numbered 3-1/3′ sections are available to 19.98′.

Style	Section 1′	2′	5′	1m			Weight	Each	6+
"E"	39739					E	14 oz.	$24.85	$22.50
		39740				E	2 lbs.	$30.60	$27.95
			39741		X	E	4 lbs.	$48.95	$44.65
"M"				39742		M	2 lbs.	$32.95	$29.95

Style	Number Plates 1	2	3	4	5	6	7	8	9	0	Minus (-)	Weight	$
"E"&"M"	39744	39745	39746	39747	39748	39749	39750	39751	39752	39743	39753	2 oz.	$6.80

Style	Graduated 0-3.33′	3.33-6.66′	6.66-10.0′	10.0-13.33′		Weight	Each	6+
"A"	39725	39726			E	3 lbs.	$39.95	$35.95
			39727	39728	E	3 lbs.	$39.95	$35.95

Style	Graduated 0-1.06′	0-1.56′	0-2.06′	0-3.32′	3.33-6.66′	6.67-9.98′	9.99-13.32′	13.33-16.64′	16.65-19.98′	0-5.06′ 2 sections		Weight	Each	6+
"C"	39729										E	11 oz.	$21.75	$19.75
		39730									E	1 lb.	$24.80	$22.35
			39731								E	1 lb.	$26.95	$24.25
				39732	39733	39734	39735	39736	39737		E	2 lbs.	$32.25	$29.00
										39738	E	3 lbs.	$61.40	$55.25

UV LED Flashlight

8601

Ideal for fluorescence detection, dye tracing, mineral analysis, forensic analysis, and forgery detection. This compact light features simple, rugged circuitry and a visible light reduction filter. Nylon belt holster included. **Wavelength:** 385 nm.

9-LED UV Flashlight

Power: 3 AAA batteries (included).
Dimensions: 4.5″ x 2″ x 1.5″.

9-LED UV Flashlight	5 oz.	**02218**	**$35.95**

51-LED UV Flashlight

Power: 3 AA batteries (included).
Dimensions: 6.5″ x 2.5″ x 2.5″.

51-LED UV Flashlight	13 oz.	**02220**	**$66.95**

E English
M Metric
X Items 60″ or more require an additional handling charge.

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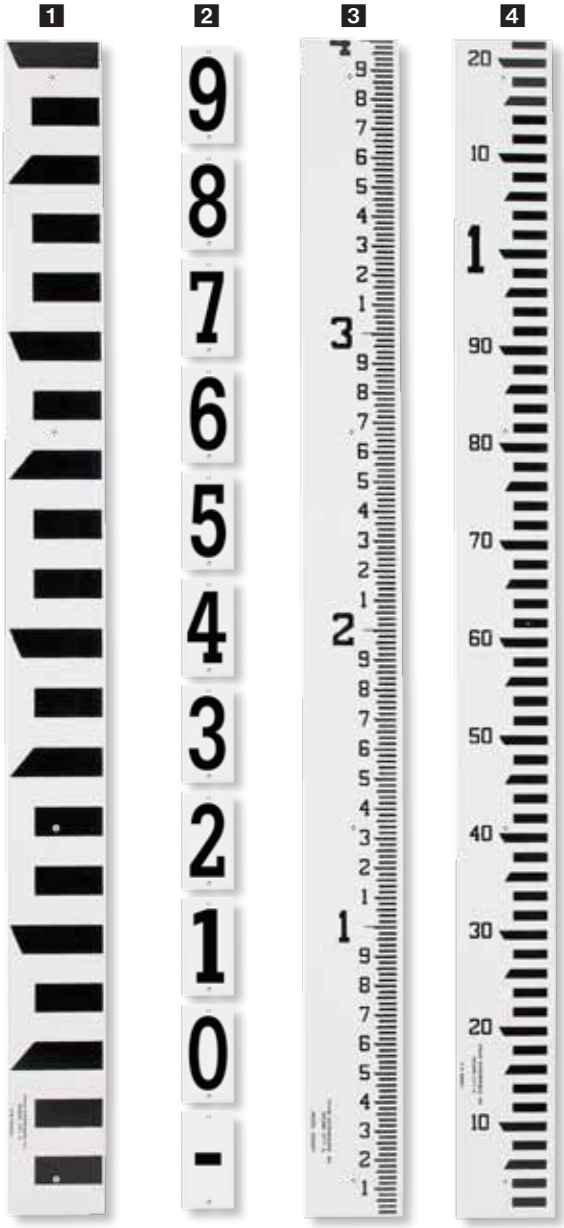

1 Unnumbered Fiberglass Stream Gauge
2960

Graduated in feet and 10ths.

This unnumbered stream gauge is graduated in feet and 10ths. The stream gauge is constructed of rugged fiberglass that will not rot, rust, or corrode. A non-glare coating offers additional protection. Number plates (sold separately) can be used to customize elevations for particular applications. Measures 1/8″ thick, 4″ wide, and 4′ long. Features 1/4″ diameter pre-drilled holes for mounting.

Unnumbered Fiberglass Stream Gauge, 4′L, Graduated in feet and 10ths	E	2 lbs.	**39622**	**$40.95**

2 Fiberglass Number Plates for Stream Gauges
2960

Use these fiberglass number plates to customize elevations for a particular application. Plates measure 2-1/4″ x 4″ overall. Printed numbers measure 1-7/8″ x 3″.

3 Fiberglass Stream Gauges with English Graduations
2960

Graduated in feet, 10ths, and 100ths.

Easy to read at long distances, these stream gauges allow you to instantly determine water levels. The stream gauges are constructed of rugged fiberglass that will not rot, rust, or corrode. A non-glare coating offers additional protection. Stream gauges measure 1/8″ thick and 4″ wide. Numbers are 1-1/4″ high. Feature 1/4″ diameter pre-drilled holes for mounting. Graduated in feet, 10ths, and 100ths.

4 Fiberglass Stream Gaugeswith Metric Graduations
2960

Graduated in meters, decimeters, and centimeters.

Easy to read at long distances, these stream gauges allow you to instantly determine water levels. The stream gauges are constructed of rugged fiberglass that will not rot, rust, or corrode. A non-glare coating offers additional protection. Stream gauges measure 1/8″ thick and 4″ wide. Numbers are 2-1/4″ high. Feature 1/4″ diameter pre-drilled holes for mounting. Graduated in meters, decimeters, and centimeters.

	Plate #1	Plate #2	Plate #3	Plate #4	Plate #5	Plate #6	Plate #7	Plate #8	Plate #9	Plate #0	Plate (–)		Weight	Each
2	39590	39591	39592	39593	39594	39595	39596	39597	39598	39589	39588		2 oz.	$7.50
	0-4 Feet	4-8 Feet	8-12 Feet	12-16 Feet	16-20 Feet	20-24 Feet	24-28 Feet	28-32 Feet	32-36 Feet	36-40 Feet	40-44 Feet		Weight	Each
3	39600	39623	39631	39602	39603	39605	39609	39615	39619	39621	39629	E	2 lbs.	$40.95

	0-1.22 Meters	1.22-2.44 Meters	2.44-3.66 Meters	3.66-4.88 Meters	4.88-6.10 Meters	6.10-7.32 Meters		Weight	Each
4	39599	39601	39604	39614	39624	39630	M	2 lbs.	$40.95

Water Flow Calculator
3400

For calculating water flow in pipes, ducts, and open channels.

One side of calculator solves the rational formula for water flow in pipes and ducts of circular sections with a flow range of 1.5 to 1,000,000 gpm and a diameter range of 0.5″ to 240″. The reverse side solves the Manning formula for the flow in open channels with a flow range of 50 to 5,000,000 gpm and a channel area of 0.7 to 2,000 sq. ft. Flow can be read in U.S. gallons/minute, million U.S. gallons/day, cu. ft./second, or cu. meters/second. Also determines velocity in pipes running full. 7-5/8″ Diameter calculator is constructed of non-warping, heavy persplex acrylic and is engraved in black, red, and green lettering. Instructions and vinyl case included.

Water Flow Calculator	8 oz.	**34259**	**$139.00**

M Metric E English

Bright Dyes™ Fluorescent Liquid Dye Concentrate
3385

Ideal for projects such as flow studies, leak detection and dilution where metering input into a system is required.

One pint of industrial fluorescent red liquid dye diluted in 9,800 gallons of water gives a strong visual concentration of 1 ppm, or one pint in 98,000 gallons of water will give a light visual concentration of 100 ppb. One pint of fluorescent yellow/green liquid dye diluted in 12,000 gallons of water gives a strong visual concentration of 1 ppm, or one pint in 120,000 gallons of water will give a light visual concentration of 100 ppb. Supplied in a one-gallon plastic jug. Industrial red dye is made from Rhodamine B and is not for use in or around potable water. The red dye is ideal for use in closed loop systems in cooling towers. Yellow/green dye is made from Fluorescein and is NSF Certified for use in or around potable water at specific levels.

One-Gallon Industrial Fluorescent Red 9 lbs.		**92982**	**$85.75**
		3+	**$79.50**
One-Gallon Fluorescent Yellow/Green 9 lbs.		**92983**	**$85.75**
		3+	**$79.50**

Fluorescent Dye Applications

Fluorescent Dye Tracing Products are bright, vivid, color dyes which act as a colorful label on each drop of water. Easily detectable in the murkiest of waters or sewage, they provide a simple, safe, accurate and economically feasible way to trace flow, mixing, and dispersing in volumes of water. Available in liquid and tablets for a variety of applications and job sizes. Fluorescent FWT Red and FLT Yellow/Green Dyes are NSF Certified and are safe to use in or around potable water sources. The other Fluorescent Red Dyes are made from Rhodamine B and should not be used in or around potable water sources. Use these safe, temporary, economical dyes for:

- Water-tracing in public works, oceanography, limnology, engineering, marine biology, geology, industry, or agronomy.
- Charting ocean currents and following tides.
- Tracing municipal plumbing/sewage hookups.
- Following septic leach lines.
- Measuring movement of sand and silt.
- Determining circulation in reservoirs and lakes.
- Measuring flow in streams.
- Identifying water sources.
- Monitoring and testing for water pollution.
- Coloring water soluble herbicides for visibility.

Degradation: Both sunlight and chlorine will cause dye breakdown. The rate of degradation varies greatly.

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Manufacturer's Warranty 1 Year

Flowatch Flowmeter/Anemometer
6597

Convenient collapsible design for ultimate portability.

Developed for use under various challenging field conditions. Its different impellers measure almost any fluid, liquid or gaseous medium. Fluid measurements can be taken in knots, km/h, mph, and m/s. The meter also takes temperature measurements in either °F or °C, including minimum and maximum temperature and current temperature. Also included is a wind speed impeller which allows you to take air velocity and wind chill measurements. To take flow measurements from a bridge or other elevated location, use the optional flow sensor with 15 meter cable (sold separately). Kit includes the display, 2m telescoping rod, a 60mm water impeller, 20mm air impeller and carrying case. Weatherproof.

Accuracy: ±2% fluid speed; ±3% air velocity; Temperature, ±1°F (±0.2°C). **Range:** Fluid Speed, 0.2 to 40 mph (0.1 to 18 M/Sec) depending on impeller; Temperature, -58°F to 212°F (-50°C to 100°C). **Resolution:** 0.3 km/h; 0.2 mph; 0.2 knots; 0.1 M/Sec. **Temperature Modes:** Minimum, maximum, current temperature, wind chill factor. **Operating Modes:** Current, maximum and average fluid speed. **Power:** 2 "AA" Batteries (included). **Dimensions:** Display, 5.25″ x 2.25″ x 2.5″; Case, 25″ x 13″ x 3″. **Warranty:** 1 Year.

Flowatch Flowmeter	C	6 lbs.	**94356**	**$445.95**
Optional Flow Sensor With 15 Meter Cable		2 lbs.	**94358**	**$249.95**
AA cell Alkaline Batteries, pack of 4		7 oz.	**02352**	**$3.25**

Global Water Flow Probe Hand-held Flowmeter
3392

Manufacturer's Warranty 1 Year

Ideal for storm run-off studies or flow measurings of rivers, streams, canals, and sewers. Incorporates true velocity averaging for the most accurate measurement possible. The probe shaft is available in lengths that extend from 3′ to 6′ and from 5′ to 15′. Located on the bottom tip is a protected Turbo-Prop sensor which uses the most advanced positive displacement technique available. For minimal friction, this 2″ Turbo-Prop sensor rotates freely on a bearing shaft with no mechanical interconnections. Magnetic material in the propeller passes a pickup coil in the housing producing electrical impulses. These electrical impulses are then carried by wire to a readout display on top of the handle. This readout display amplifies and converts the signal into feet/meters per second readings. Instantaneous velocity and true average velocity are then displayed. A unique two-button keypad allows other functions to be displayed including minimum/maximum velocity, time-of-day, timer, totalizer for batch flows, and RPM for accurate low velocity measurement. Features a 30-record memory, padded gun-type carrying case, five-year long life battery for readout display (no battery required for Turbo-Prop), and low battery indicator. Probe can be extended up to 25′ with standard PVC pipe and electrical extension cable. One-year warranty from the manufacturer on the probe and battery.

Range: 0.3 to 19.9 FPS (0.1 to 6.1 MPS). **Accuracy:** average velocity ±0.1 FPS. **Averaging:** true digital running average. **Display:** LCD. **Sensor Type:** protected Turbo-Prop propeller with electromagnetic pickup. **Weight:** 2 lbs. **Size:** probe expands from 3′ to 6′ or from 5′ to 15′ (depending on model), sensor housing is 2″ in dia. x 3″L. **Materials:** PVC handle and propeller housing, anodized aluminum shaft, stainless steel bearing. **Power:** Five-year long life battery. **Operating temperature:** -4°F to 158°F (-20°C to 70°C).

3′ to 6′ Expandable Flow Probe	C	8 lbs.	**94303**	**$943.00**
			2+	**$912.00**
5′ to 15′ Expandable Flow Probe	C X	12 lbs.	**94307**	**$1012.00**
			2+	**$979.00**

MJP Student Stream Flowmeter
7107

Ideal for student projects and practical river and irrigation studies and management.

Revolutions of impeller are sensed electronically and transmitted to a hand-held counter unit that features start, stop, and clear functions. Revolutions per unit of time can be translated into stream velocity using a conversion chart. May be used in brackish water or salt water. Fitted with a re-settable LCD counter, this flowmeter eliminates the need for tiresome calculations. Comes complete with PVC pole mounted with an impeller which collapses into four sections for easy storage and carrying, three stream bed elevation rods, protective carrying pouch for counter, weather-proof storage case, instruction manual, and comparison charts.

Materials: PVC impeller poles, stainless steel impeller shaft, plastic impeller. **Dimensions: Overall pole length:** 3.3′. **Four individual sections:** 9.8″ each. **Cable:** 3.3′. **Elevation rods:** 9.8″, 4.9″, and 2.5″. **Data Readout:** LCD counter; 800 counts per minute; re-setting. **Sensor Type:** Magnetic. **Range:** Approximately 0.05m/sec to 8.0m/sec. **Accuracy:** ±7%. **Power:** 2 AAA batteries (included).

Flowmeter		2 lbs.	**94305**	**$249.95**

C Combination English and Metric
X Items 60″ or more require an additional handling charge.

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Swoffer Model 2100 Series & 3000 Series Open Stream Current Velocity Meters

3398

A portable, reliable means of measuring open stream velocities in the range of 0.1 to 25 feet per second or 0.03 to 7.5 meters per second (selectable). Measurements can be read in feet or meters on your choice of two digital readout indicator models, both with better than 1% accuracy. Each meter includes a meter indicator, shoulder strap and snap ring, and PVC shipping/storage tube for the sensor. 2100 Series includes a 9V battery, and the 3000 series includes four AA batteries.

Sensor

The sensor uses a 2″ propeller which rotates a fiber-optic bundle to create a signal from a photodiode to a photosensitive transistor. This signal is transferred via cable to the indicator where velocity is displayed. Resolution of the display is to hundredths. The propeller is swivel mounted for easy storage. A quick-disconnect, waterproof cable connection is located at the indicator. The electronics of the sensors are permanently encapsulated in epoxy resin and housed in chemically inert acetal-resin fittings. All sensor parts are replaceable and are available separately. Sensor wands are aluminum alloy with stainless steel fasteners. Propeller is glass impregnated nylon and all other plastic sensor parts are acetal-resin (Delrin or Celcon).

Model 2100 Indicator

Accommodates all types of open stream flows. Three selectable, pre-set display update times allow up to 90 seconds of averaging. In extremely turbulent flows, otherwise unreadable data is electronically averaged and can be used without interpolation. Features a dial-style control and self-calibration to check accuracy of instrument while in the field. A compartment in the back of the indicator houses the battery and has space for one spare. Liquid crystal display features one line with 0.7″H digits.

Model 3000 Indicator

A datalogging version of the 2100, the 3000 records depths, width, velocities and angles along with time and date of measurements. It figures the "Q" and can upload all information in spreadsheet-acceptable format to your PC via RS232. Simple file transfer software and a DB9 serial connection cable are provided. Choose from 1 to 999 seconds of averaging. Velocities can be a single averaged measurement or the accumulated average of as many measurements as desired. As many as 1,000 "stations" in 1 to 100 stream cross-sections can be acquired and stored in memory. Use the convenient keypad to input angles of velocity other than perpendicular to the stream cross-section. Simple, accurate calibration is possible in the field. Two-line, 16-character LCD prompts user through all operations. Compatible with all Swoffer instruments.

Indicator Construction

Weatherproof indicator cases are vacuum-formed ABS plastic with a clear acrylic lens over the LCD and measure just 6″ x 4″ x 2″. The electronics of the indicators are sealed against moisture.

Model 2100-12 – for 6/10 depth method. 3′ Wand easily measures stream depth to 2-1/2′ then places the sensor 6/10 of the stream depth from the surface. Primarily used when wading, it is lightweight enough to be carried on a backpack. Shipped in two pieces; one weighs 2 lbs., the other 3 lbs.	C	3 lbs.	**94178**	**$1695.00**
Model 3000-12 – Same as 2100-12, except includes the 3000 series indicator.	C	6 lbs.	**94031**	**$2195.00**
Model 2100-13 – Same as Model 2100-12, except for 3-1/2′ wading rod. Shipped in two pieces; one weighs 2 lbs., the other weighs 3 lbs.	C	5 lbs.	**94160**	**$1785.00**
Model 3000-13 – Same as 2100-13, except includes the 3000 series indicator.	C	6 lbs.	**94032**	**$2250.00**
Model 2100-LX – Wand extends from 4′ to 19-1/2′. Propeller is on 10″ boom which swivels 120° for reaching up into lateral conduits. A 3′ adjustable table depth probe is supplied. Shipped in two pieces; one weighs 2 lbs., the other 7 lbs.	C	7 lbs.	**94179**	**$1895.00**
Model 3000-LX – Same as 2100-LX, except includes the 3000 series indicator.	C	9 lbs.	**94033**	**$2350.00**
Model-2100-1514 – Similar to the Model 2100-12 and 2100-13, but more versatile. The 2100-1514 can be used from bridges, boats, manholes, or while wading. Meter comes complete with four 3′ sections that offer the option of adjusting the sensor. Weight: meter – 8 lbs.; four 3′ sections packaged together – 2 lbs. each.	C	10 lbs.	**94161**	**$2150.00**
Model-3000-1514 – Same as 2100-1514, except includes the 3000 series indicator.	C	10 lbs.	**94034**	**$2650.00**
Optional 3′ extension for 2100-1514		2 lbs.	**94162**	**$123.00**
9V Alkaline Battery, single		3 oz.	**02179**	**$3.20**
AA cell Alkaline Batteries, pack of 4		7 oz.	**02352**	**$3.25**

General Oceanics Mechanical Flowmeter

3397

Can also be used with a plankton net in determining water volume.

Use to determine velocity and distance information or use with plankton nets to determine water volume associated with each tow. Both models incorporate precision molded rotors coupled directly to six digit counters which record each rotor revolution. Supplied with a standard calibration curve (number of counts/unit time vs. velocity) sealed inside transparent body. A single pin and lanyard system located ahead of the lateral center of mass allows the flowmeter to maintain correct dynamic alignment with the fluid flow in which it is immersed.

C Combination English and Metric

Materials: Celcon rotor, nickel-plated brass nose piece, poly-carbonate body, stainless steel main rotor and idler gear shafts, Delrin idler gears, and Delrin and nylon digit wheels. **Dimensions:** Overall length is 8-3/8″ with a 1-9/16″ dia. body. **Depth Rating:** Unlimited (free flooding). **Data Readout:** Six 10-digit counter wheels read 000,000 to 999,999; 10 counts per rotor revolution, non-resetting; read by noting difference in start and end readings (counter advances through 000,000). **Six-digit full scale count:** 999,999 counts equal approximately 14-1/2 nautical miles (1,852 meters/nautical mile). **Mounting:** Universal bridle allows single point connection for towing or two point connection within net mouth. **Response with standard 3″ dia. rotor:** Threshold approx. 10 cm/sec. (1/5 knot).

Model 2030R – Flowmeter with standard 3″ dia. rotor (10 to 790 cm/sec.), SS axle pin and towing bridge	2 lbs.	**94460**	**$402.75**
Model 2030R6 – Flowmeter with gray PVC slow speed, low velocity (6 to 100 cm/sec) 6-3/4″ dia. rotor	2 lbs.	**94463**	**$418.75**

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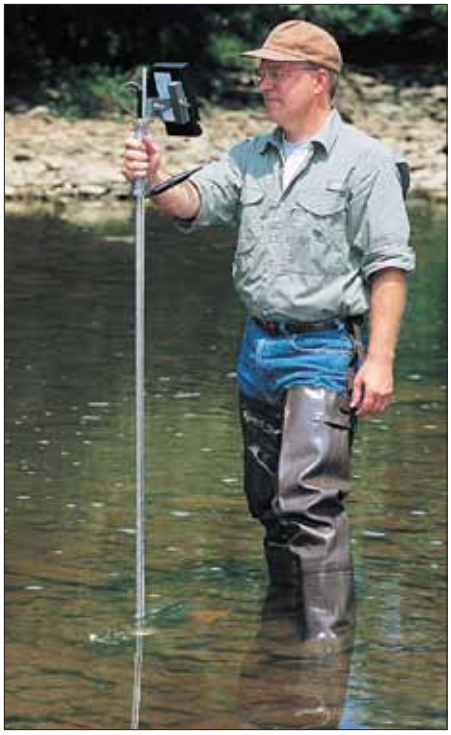

WaterMark® USGS Type Current Meters

3401

WATER MARK®

Features precisely balanced bucket wheel which is mounted on a vertical pivot and is rotated by water flow. Rate of rotation is proportional to water velocity. Velocity is determined by counting bucket wheel revolutions over a given period of time. Revolutions can be monitored by headset or a digimeter (both sold separately). Use headset to manually count revolutions via an audible tone produced every revolution. The number of revolutions over a period of time are compared to a rating chart (included) which determines water velocity. The digimeter is a digital counter that electronically monitors revolutions and time, calculates water velocity, and displays it. Two separate binding posts on the contact chamber allow the operator to set unit to selectively count either every revolution or every fifth revolution for use in fast moving water. Meters are constructed of stainless steel, brass, and bronze with chrome-plating where required.

Model 6200 "AA" Current Meter

Measures velocity from 0.1 FPS to 25 FPS. May be suspended by wading rod (sold separately) or cable from a bridge board (sold separately). Furnished with a foam-cushioned carrying case, rating chart, tail fin assembly, screw driver, assorted spare parts, special lubricant, and operation and maintenance manual. **Dimensions:** 8-3/4″ x 5″.

Model 6200 "AA" Current Meter	6 lbs.	**95000**	**$848.00**

Model 6205 "Mini" Current Meter

Available for use in shallow water or where water velocity is between 0.1 FPS to 4.9 FPS. Its small size allows it to be suspended by wading rod (sold separately) only. Furnished with foam cushioned carrying case, rating chart, assorted spare parts, and special lubricant. **Dimensions:** 3.735″ x 2″.

Model 6205 "Mini" Current Meter	2 lbs.	**95001**	**$635.00**

Accessories for Model 6200 and Model 6205 WaterMark® USGS Type Current Meters

4′ Top Setting Wading Rod	E	6 lbs.	**95002**	**$435.00**
6′ Top Setting Wading Rod	E	10 lbs.	**95003**	**$475.00**
1.2 Meter Top Setting Rod	M	9 lbs.	**95004**	**$457.00**
Headset Readout for Current Meters		3 lbs.	**95005**	**$86.00**
Digital Readout Unit for Current Meters		2 lbs.	**95006**	**$965.00**
Rod Adapter, required to mount 95006 to Wading Rod		1 lb.	**95011**	**$51.00**
Rod Mount, required to mount 95006 to Wading Rod		1 lb.	**95012**	**$69.00**

WaterMark® Model 4200 Bridge Board

3399

WATER MARK®

Use this free-standing support with a sounding reel (sold separately) to raise or lower a current meter or sediment sampler over bridge railings. The vertical leg is adjustable to match rails of 12″ to 48″ heights. The 4′ boom extends past the bridge railing to lower the instrument into the water below. Recommended maximum weight of the instrument being lowered is 30 pounds. The bridge board is constructed of aluminum with stainless steel hardware. Folds for easy transportation and storage. **Dimensions (collapsed):** 48″ x 12″ x 6″.

Model 4200 Bridge Board	16 lbs.	**95007**	**$337.00**

A-Pak Sounding Reel

Optional sounding reel is equipped with 45′ of sounding cable, a digital counter depth indicator, pressed sleeve connector, and heavy-duty carrying case. Mounts to bridge board with three wing nuts (included). Constructed of aluminum, brass, bronze, and stainless steel. Electric terminals, connected to the cable, are provided for sending or receiving electrical signals to or from a current meter.

A-Pak Sounding Reel	15 lbs.	**95008**	**$1349.00**

Sounding Weights

Sounding weights hold current meters against the flowing water. The 15 lb. sounding weight is solid bronze, and the 30 lb. sounding weight is lead. Each weight is furnished with the required weight hanger and hanger pin. **Dimensions (collapsed):** 48″ x 12″ x 6″.

15 lb. Sounding Weight	18 lbs.	**95009**	**$313.00**
30 lb. Sounding Weight	34 lbs.	**95010**	**$339.00**
Hand Line with 40′ of 0.10-inch Ellsworth cable, a pressed sleeve connector, and a 1-′, 16-gauge/ 2 conductor, rubber-covered electrical cord with adapter	4 lbs.	**95015**	**$342.00**

Kevlar® Taglines with Reels

These USGS standard taglines feature a Kevlar inner core enclosed in a nylon jacket dyed yellow with black markings for excellent visibility. Use the taglines to measure the distance between observation points during discharge measurements, as well as the width across a river. Tagline is marked at preset intervals. The 150′ and 300′ models have aluminum skelatonized reels, and the 400′ model has an enclosed yellow poly reel.

150′ Kevlar Tagline	E	3 lbs.	**95025**	**$230.00**
300′ Kevlar Tagline	E	4 lbs.	**95026**	**$295.00**
400′ Kevlar Tagline	E	6 lbs.	**95027**	**$518.00**

WaterMark® Model 6200FD Rod-Suspended Water Current Meter Kit

3401

WATER MARK®

Measures velocity in shallow streams, irrigation ditches, canals, water supply conduits, and sewers. Suspended on a 1.2 m or 4′ wading rod, the bucket wheel revolves in flowing water. The circuit is closed each revolution or each fifth revolution. Separate binding posts permit selection of the count desired. Digital Flow Indicator provides direct digital display of flow velocity in feet or meters per second ranging from 0.2 to 32 ft. per second or 0.06 to 7.6 meters per second.

E English
M Metric

Components Type AA Current Meter: With meter case, rating table, instrument oil, screw driver, and cleaning cloth. **Spare Parts:** Extra pivot with lock nut, hanger screw, tailpiece screw, insulation bushing. **Meter Case:** Holds meter, spare parts, accessories, and telephone set. Rating Table. **Digital Readout Unit: LCD screen Top Setting Wading Rod:** 1.2 m or 4′ as required with vernier handle and two-plug connector.

Model 6200FD Rod-Suspended Water Current Meter Kit, English Model	E	22 lbs.	**94961**	**$2250.00**
Model 6200FD Rod-Suspended Water Current Meter Kit, Metric Model	M	16 lbs.	**94960**	**$2272.00**

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AMS Bottom Dredges
5005

AMS Heavyweight Deep Water Bottom Dredge

Use this 6″ x 6″ dredge in all types of bottom substrates, except hard packed clays. Two-way mechanism prevents accidental closure while in transit, yet triggers dredge with a spring-loaded release mechanism upon impact with the bottom, eliminating the need for a messenger. Top is covered with stainless steel screening to reduce frontal shock wave and prevent escape of sample upon retrieval. Effective sampling area is 36 square inches. Jaws, side plates, underlip plate, screen frame, and hinge pin all made of #316 stainless steel. Top screen and fasteners are made from 18-8 stainless steel. Exterior weights and closing arms are constructed of powder painted mild steel. A 3/8″ nylon rope is recommended for raising and lowering dredge.

Heavyweight Deep Water Bottom Dredge	25 lbs.	**77931**	**$618.00**

AMS Shallow Water Bottom Dredge

Ideal for obtaining most types of bottom material! The dredge's two-way mechanism prevents accidental closure while the dredge is in transit. A spring-loaded release mechanism is triggered once the dredge makes impact with the bottom. Stainless steel screening on the top reduces frontal shock wave and prevents loss of the sample. The 6″ x 6″ opening provides an effective sampling area of 36 square inches. Jaws, top screen, side plates, underlip plate, screen frame, fasteners, and hinge pin constructed of stainless steel. Exterior weights and closing arms are powder-coated steel.

Shallow Water Bottom Dredge	18 lbs.	**77957**	**$455.00**

LaMotte® Bottom Sampling Dredge
5002

For use on soft bottoms of sand or silt, this stainless steel sampler has a simple trigger which holds the sampler open while lowering to cover a uniform area. The scissor design closes the 3″ x 3″ x 7-1/2″ 67 cu. in. sampler, retrieving sediment for analysis.

LaMotte Bottom Sampling Dredge	4 lbs.	**76920**	**$207.95**

Hip Boots page 635

Al-Sci Field Sieve/Gravelometer
2208

The accurate and fast way to collect data on stream bottom materials! Makes pebble size determination faster and more consistent than using a ruler when using the Wolman pebble count procedure for stream classification. The square openings measure particle sizes ranging from 4 mm to 128 mm while notches on the top edge measure 180, 256 and 362 mm. Bottom notches located at 100, 200 and 300 mm provide additional measurements. Made from 2 mm anodized aluminum, the lightweight, durable sieve measures 8-1/2″ x 15″. Easily used by one person, the surface can be written on with pencil and later erased.

Al-Sci Field Sieve/ Gravelometer	1 lb.	**53250**	**$51.00**

Ekman Dredge
5007

6″ x 6″ x 6″ Dredge for sampling benthic communities inhabiting soft bottomed aquatic environments. Hinged upper doors swing open as dredge is lowered, allowing water to pass through and minimize shock wave. Stainless steel messenger closes dredge, preventing washout of sample. Cable release system, with bar grip, helps set dredge with greater safety. Dredge is constructed of stainless steel with special Heliarc welding for added strength and durability. A case, 100 feet of line, and messenger are included. Also available is a 5′ aluminum handle with trip head that can be used in place of the line for shallow water work. Easily installed on Ekman dredge.

Dredge 12 lbs.		**77933**	**$519.50**
Optional 5′ Handle 3 lbs.	X	**77934**	**$315.50**

Integrating Sediment Sampler
5008

Small, lightweight, cast aluminum sampler is designed to obtain sediment samples in shallow water with a wading rod. An exhaust tube is cast into the body of depth integrating-type sampler and allows air in one-pint sampler bottle to escape down stream as it is displaced by the accumulating sample. Includes two 1/4″ sampler nozzles, one 1′ wading rod with handle, a case of 24 one-pint sample bottles with caps, and adhesive labels. **Dimensions (with nozzle and rod):** 12″ x 23″.

DH-48 Sediment Sampler 7 lbs.	**77950**	**$439.00**
3′ Extension Rod for DH-48 2 lbs.	**77951**	**$59.00**
Case of 24 Replacement 1-pint Bottles w/ Caps and Labels 3 lbs.	**77952**	**$48.00**

X Items 60″ or more require an additional handling charge.

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AMS Multi Stage Sediment Sampler

8050

Uses a disposable plastic core catcher that fits on the end of a 2″ x 12″ plastic liner. The technically enhanced core tip is specifically designed allowing the plastic core catcher and liner to fit snugly over the core tip's machined lip which holds the liner and core catcher in place during sampling, reducing side-to-side float. Once the core catcher and liner are placed on the core tip, they are loaded into a standard multi-stage base section and screwed together. The Flap Check Cap is a modified multi-stage cap with 4 holes machined completely through it and a rubber check flap stretched and fitted over the holes. During deployment of the sampler, the flap cap opens and allows excess air and water to escape through the top of the sampler. The sediment enters and fills the liner. When the sampler is lifted, the rubber flap cap closes over these holes and creates suction to assist the core catcher in retaining the sample. Optional 12″ sections are available and can be added to the sampler to extend its length for profile studies up to 48″, depending on the sediment lithology. The kit comes complete with two 2″ plastic liner caps and one slip wrench.

12″ Multi Stage Sediment Sampler

Includes a multi-stage flap check cap, multi-stage sludge core tip, 12″ multi-stage SCS base, 2″ x 12″ plastic liner, two plastic end caps, 2″ soil core catcher, and a universal slip wrench.

Multi Stage 12″ Sediment Sampler	8 lbs.	**77605**	**$535.50**

Note: 77665 does not come with liner caps. The liner caps are sold separately.

Extendible Multi Stage Sampler Kit

This sampler is 12″, 24″, 36″, or 48″ selectable and provides up to a 48″ continuous sample. (48″ Liners are available by special order. Call for details.) Kit includes an AMS multi-stage sludge sampler, multi-stage sludge core tip, 2″ multi-stage valved core tip, 12″ multi-stage SCS base, three 12″ multi-stage SCS sections, three 4′ extensions, plastic liner, plastic end caps, 2″ soil core catcher, universal slip wrench, two crescent wrenches, SST cross handle, slide hammer, and the AMS deluxe carrying case.

Extendible Multi Stage Sampler Kit	O	70 lbs.	**77675**	**$1648.00**

Replacement Parts and Accessories

Replacement Core Catchers		1 oz.	**77591**	**$8.25**
12″ Multi-Stage Base		4 lbs.	**77658**	**$200.95**
12″ Extension		4 lbs.	**77657**	**$200.95**
2″ x 12″ Butyrate Plastic Liner		4 oz.	**77665**	**$7.75**
2″ Polyethylene Liner Caps, Case of 100		1 lb.	**77483**	**$50.00**
Universal Wrench		1 lb.	**77882**	**$36.75**
Hammer Head Cross Handle, 5/8″ NC Thread		2 lbs.	**77810**	**$93.95**
2′ Chrome Moly Thread-On Extension		1 lb.	**77580**	**$56.75**
3′ Chrome Moly Thread-On Extension		2 lbs.	**77442**	**$59.25**
4′ Chrome Moly Thread-On Extension		2 lbs.	**77443**	**$61.50**
5′ Chrome Moly Thread-On Extension	X	2 lbs.	**77444**	**$64.50**
Thread-on Hammer Attachment, 5/8″ NC Thread		10 lbs.	**77454**	**$173.75**

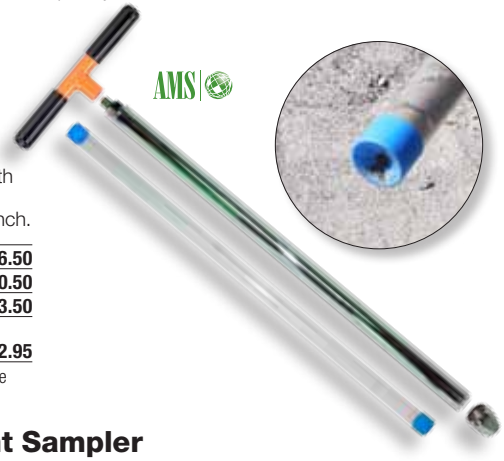
AMS Sand/ Loose Sediment Probe

7221

Ideal for obtaining unconsolidated soil samples in a 1″ x 24″ poly liner. A 1″ core catcher ensures full sample recovery in the proper soil conditions. Includes 1″ x 24″ probe body, 10″ cross handle with comfortable grip, 1″ core catcher, 1″ x 24″ plastic liner, two 1″ plastic end caps, and a spanner wrench.

Sand/Loose Sediment Probe	4 lbs.	**77670**	**$196.50**
Replacement 1″ Core Catcher	1 oz.	**77671**	**$0.50**
1″ x 24″ Butyrate Plastic Liner	2 oz.	**77531**	**$3.50**
1″ Polyethylene Liner Caps, Case of 100	6 oz.	**77536**	**$32.95**

Note: 77531 does not come with liner caps. The liner caps are sold separately.



Wildco® Hand Core Sediment Sampler

5004

For obtaining sediment core samples from the bottom of streams, rivers, and lakes.

Handle allows use in shallow water or by divers. Attach line to Clevis when taking deeper samples. Clevis is removable to attach extension handle for sampling from a pontoon boat, dock, or bridge. Simple, automatic valve for good seal. #304 Stainless steel core tube is 2″ in dia. and 20″L. Sampler includes screw-on Lexan™ nose piece, a plastic eggshell-type core catcher to hold sample intact during extraction, and a plastic liner tube which receives the sample and is easily removed from the core tube serving as a sample storage container.

Sampler with Liner Core Tube, two Liner Tubes, three Eggshell Core Catchers, two Lexan Nosepieces, and Carrying Case	16 lbs.	**77258**	**$519.00**
Same as 77258, without Carrying Case	11 lbs.	**77259**	**$439.00**
15′ Extension – Includes one 5′ Extension with T-Handle, and two 5′ Extensions without T-Handles	20 lbs.	**77409**	**$228.50**
Repl. Eggshell Catchers, 2″ dia., pack of 3	1 oz.	**77261**	**$19.75**
Repl. Nosepiece, 2″ dia., Lexan	3 oz.	**77262**	**$23.95**
Optional Nosepiece, 2″ dia., stainless steel	10 oz.	**77263**	**$65.50**
Core Sample Removal Tool 30″ rod with hand knob on one end, 1-3/4″ dia. plunger on the other for core sample extraction	1 lb.	**77264**	**$74.00**
Repl. Liner Tube w/end caps, 20″L, clear plastic	5 oz.	**77260**	**$17.95**

Cross Handles and Extensions page 294

O Ships at Oversize rate. See Shipping Information for details.
X Items 60″ or more require an additional handling charge.

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WATER•MARK®

WaterMark® Universal Core Head Kit Sediment Sampler

7012

For water sediment sampling.

Recover high quality cores of water-sediment interface with this universal core head kit. The core head drives clear, virtually unbreakable polycarbonate barrels into sediments, resulting in long cores with minimal effort and sample compression. The one-way check valve permits the barrel to free flush during deployment and also retains the core sample, without using core catchers and nosepieces. To obtain a sample, attach a polycarbonate core barrel to the core head and push or lower the sampler into the sediment. If sampling in compact deposits, use the optional slide hammer. To adjust sampler weight, use the bronze gravity weights (sold separately) for even easier penetration. Next, haul the sampler to the surface and insert a core extruding plug inside the barrel before the barrel breaks the surface. Loosen the rubber coupler sleeve and remove the barrel from the core head. With the core extruding plug in place, you can attach the barrel directly to the optional incremental core extruding apparatus (sold separately) which allows samples to be incrementally pushed from the bottom up if desired. In shallow water (less than 6 m), the sampler is manually-driven using the "T" handle and the optional aluminum extension rods. In deeper water, the corer is gravity/slide hammer-driven. Use separate lines for sampler deployment and slide hammer operation. Select the optional extensions for even deeper sampling. Universal core head kit contains polyethylene and stainless steel corer head, "T" handle, one clear polycarbonate core barrel (68 mm x 71 mm x 120 cm), two polycarbonate end caps, one core extruding plug, 15 m calibrated line with line reel, hexnut driver, carrying case, and directions.

WaterMark Universal Core Head Kit	17 lbs.	**77279**	**$631.00**
60 cm Polycarbonate Core Barrels with Poly End Caps	9 oz.	**77280**	**$53.00**
120 cm Polycarbonate Core Barrels with Poly End Caps	1 lb.	**77281**	**$72.00**
Bronze Slide Hammer Assembly	16 lbs.	**77219**	**$271.00**
Bronze Gravity Weight	12 lbs.	**77282**	**$152.00**
Core Extruding Rod with Extruding Plug	5 lbs.	**77283**	**$76.75**
Incremental Core Extruding Apparatus	10 lbs.	**77286**	**$460.00**
Core Extruding Plug	3 oz.	**77287**	**$20.25**
1.2 m Aluminum Holobar Extension Rods	2 lbs.	**77237**	**$144.00**
2.4 m Aluminum Holobar Extension Rods (X)	3 lbs.	**77238**	**$175.00**

WATER•MARK®

Russian Sediment Borer

7011

Discrete Interval Sampler

This manually-driven, side-filling sampler collects discrete, uncompressed samples from rivers, lakes, wetlands, and estuaries. The single-moving part, chambered-type borer collects quality samples which are not compressed or shortened during recovery, unlike samples taken with end-filling core samplers. Sampling is easy. Simply deploy the borer (in the closed position) to the desired depth. The bore is rotated clockwise 180° so that the sharpened edge of the chamber cuts a semi-cylindrical sediment core which is contained by the pivotal cover plate. During retrieval, the cover plate's counterclockwise rotation extrudes the undisturbed sample. Ideal for use in woody peat, sand, silt, and clay. Borer measures 5 cm in diameter and 50 cm in length with a sample volume of 10 ml/cm. The optional bronze slide hammer assembly (sold separately) helps you drive and retrieve the borer in compact deposits. Use the lightweight, buoyant aluminum holobar extension rods for one-man operation of the sampler from a boat. Additional rods (4.0 cm diameter) are available in two lengths, 1.2 m and 2.4 m. Borer includes stainless steel borer head, two 1.2 m aluminum holobar extension rods, turning handle, carrying case, and reference materials.

WaterMark Russian Sediment Borer	20 lbs.	**77218**	**$1349.00**
Bronze Slide Hammer Assembly	16 lbs.	**77219**	**$271.00**
1.2 m Aluminum Holobar Extension Rods	2 lbs.	**77237**	**$144.00**
2.4 m Aluminum Holobar Extension Rods (X)	3 lbs.	**77238**	**$175.00**

Aquatic Suction Sampler

7006

Easily extract burrowing aquatic invertebrates from wet sand or loose muck using this durable sampler.

Just place the end of the sampler over the hole left by the invertebrate or over any other area where you suspect specimens are located. Pull up on the sampler's handle. An area of negative pressure is formed in the void and the substrate as the inner piston moves up the sampler's housing, allowing the specimens to be securely drawn inside. Made of heavy duty PVC, hardwood, and rubber. Not recommended for use in clay-based mud. **Dimensions:** 42˝L x 2-1/4˝ diameter.

Aquatic Suction Sampler	4 lbs.	**77254**	**$46.75**

(X) Items 60˝ or more require an additional handling charge.

Shaker Sieve

7005

Perfect for quick sifting in wet or dry conditions.

After placing sample in the shaker sieve, move the sieve back and forth vigorously. Insignificant particles fall out, leaving the larger specimens behind for easy observation. Constructed of clear pine with a #7 polyethylene screen, reinforced by galvanized hardware cloth. **Dimensions:** 24˝L x 10-1/2˝W x 3-1/2˝D.

Shaker Sieve	3 lbs.	**77252**	**$19.95**
	4+		**$18.25**

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1

2

1 Wildco® Alpha Horizontal Water Bottle
5018

Collect water samples at any depth! Features flexible polyurethane end seals, transparent acrylic cylinder and amber latex closure tubing for resistance to sunlight. 2.2 Liter capacity. For stratification and near bottom studies. Requires line and messenger (sold separately).

Horizontal Bottle with Case	11 lbs.	**77242**	**$460.25**
Stainless Steel Messenger	12 oz.	**77285**	**$69.95**
Solid Braided Rope, 3/16″ x 100′ Spool	2 lbs.	**77909**	**$31.50**

2 Wildco® Beta Plus Horizontal Water Bottle
5019

Similar to the Alpha Water Bottles, but with rigid, white polyurethane end seals, opaque PVC cylinder and amber latex tubing for cleanliness. Well suited for sampling trace metals and trace organics. 2.2 Liter capacity. Horizontal style for stratification and near bottom studies. Requires line and messenger (sold separately).

Beta Plus Bottle Without Case	4 lbs.	**77198**	**$356.50**
Stainless Steel Messenger	12 oz.	**77285**	**$69.95**
Solid Braided Rope, 3/16″ x 100′ Spool	2 lbs.	**77909**	**$31.50**

WATER‡MARK®

WaterMark® Horizontal Polycarbonate Water Bottle with Case
5011

Specifically designed for thin-layer stratification and near bottom studies. Collects water samples at any depth. Messenger-activated release mechanism closes a single sampler on the end of line. Constructed from clear polycarbonate, polyethylene and silicone, this bottle is EPA approved for "ultra-clean" analysis of water, including trace metals and organics. **Unit includes:** horizontal water bottle, 20.0m nylon cord, line reel, 250g solid bronze messenger, and plastic carrying case.

2.2 liter Horizontal Water Bottle (4″ Dia.) 10 lbs.	M	**77901**	**$424.00**
5 liter Horizontal Water Bottle (6″ Dia.) 14 lbs.	M	**78901**	**$583.95**
Spare Parts for 2.2 Liter and 5 Liter Water Bottles – Includes a latex internal closure, lanyards, a thumb screw, and drain tube with pinch clamp. 6 oz.		**78903**	**$74.95**

WATER‡MARK®

WaterMark® Horizontal PVC Water Bottle with Case
5010

Collect water samples at any depth without exposing them to light during retrieval. Horizontal bottles are specifically designed for thin-layer stratification and near bottom studies. Messenger-activated release mechanism closes a single sampler on the end of a line. Constructed from opaque (gray Schedule 80) PVC, polyethylene, and silicone, this bottle is intended for general physical, chemical, and biological water analysis (excluding trace metals and organics). **Unit includes:** horizontal water bottle, 20.0m nylon cord, line reel, and 250g solid bronze messenger and plastic carrying case.

2.2 liter Horizontal PVC Water Bottle (6″ Dia.) 12 lbs.	M	**77903**	**$399.00**
5 liter Horizontal PVC Water Bottle (6″ Dia.) 12 lbs.	M	**78902**	**$556.50**
Spare Parts for 2.2 Liter and 5 Liter Water Bottles – Includes a latex internal closure, lanyards, a thumb screw, and drain tube with pinch clamp. 6 oz.		**78903**	**$74.95**

WATER‡MARK®

WaterMark® Vertical Polycarbonate Water Bottle with Case
5013

For free-flushing and "in-series" deployments, this vertical bottle collects water samples at any depth. Messenger-activated release mechanism has integral cable clamps allowing samplers to be easily attached to any point on line. Constructed of clear polycarbonate, polyethylene and silicone, this bottle is EPA approved for "ultra-clean" analysis of water, including trace metals and organics. **Unit includes:** 2.2 liter vertical bottle, 20.0m nylon cord, line reel, 250g solid bronze messenger, and plastic carrying case.

2.2 liter Vertical Water Bottle 10 lbs.	M	**77902**	**$467.00**
333g Split Messenger with Lanyard 15 oz.		**77905**	**$170.00**
Spare Parts for 2.2 Liter and 5 Liter Water Bottles – Includes a latex internal closure, lanyards, a thumb screw, and drain tube with pinch clamp. 6 oz.		**78903**	**$74.95**

Note: In-series deployments of multiple bottles on a single line require 333g split bronze messengers with lanyards (sold separately).

WATER‡MARK®

WaterMark® Vertical PVC Water Bottle with Case
5012

For free-flushing and "in-series" deployments at any depth without exposing samples to light. Messenger-activated release mechanism has integral cable clamps allowing samplers to be easily attached to any point on line. Constructed from opaque PVC, polyethylene, and silicone, this bottle is intended for general physical, chemical, and biological water analysis (excluding trace metals and organics). **Unit includes:** 2.2 liter vertical water bottle, 20.0m nylon cord, line reel, 250g solid bronze messenger, and plastic carrying case.

2.2 liter Vertical PVC Water Bottle 11 lbs.	M	**77904**	**$430.00**
333g Split Messenger with Lanyard 15 oz.		**77905**	**$170.00**
Spare Parts for 2.2 Liter and 5 Liter Water Bottles – Includes a latex internal closure, lanyards, a thumb screw, and drain tube with pinch clamp. 6 oz.		**78903**	**$74.95**

Note: In-series deployments of multiple bottles on a single line require 333g split bronze messengers with lanyards (sold separately).

M Metric

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Fieldmaster® Basic Water Bottle
5021

Perfect for student projects!

Durable PVC body is impact-resistant. Water can be sampled from any depth as a single-line trigger mechanism uses one line to both raise and lower sampler as well as trigger device to seal collection chamber. Soft rubber end seals securely hold the 1 liter water sample and a drain hose allows transfer to a storage bottle (not included). Includes 20m of cord and instructions.

Basic Water Bottle	3 lbs.	**77222**	**$74.95**

Fieldmaster® Student Water Bottle Kit
5023

Clear acrylic one-liter, horizontal-style water sampler with positive messenger-activated closing mechanism. Includes bottle, 4 oz. tapered nose stainless steel messenger, and 20m uncalibrated nylon line. Not for use in salt water.

Fieldmaster	3 lbs.	**77276**	**$229.95**
Student Water Bottle Kit		2+	**$219.95**

LaMotte® D.O. Water Sampler
5022

Simplified water sampler features unique, easy-to-remove 2 oz./60 ml collecting bottle designed to work directly with the LaMotte Dissolved Oxygen Test Kit, eliminating sample transfer into a second collecting bottle. Samples overflow collecting bottle five times to ensure greater representation. Employing a calibrated line allows you to retrieve samples at controlled depths. For rapid descent and minimal drift in low currents, attach 2 lb. weight (included) to sampler. 6″ Tall sampler contains 2-1/2″ diameter cylinder with 3-3/8″ x 3-3/8″ square top and bottom.

D.O. Water Sampler		3 lbs.	**76925**	**$123.75**
Test Kit, Dissolved Oxygen	❶	2 lbs.	**77191**	**$55.40**
Replacement Collecting Bottle		6 oz.	**76926**	**$4.95**

WaterMark® Wash Bucket for Littoral Samples
5001

Allows you to easily wash dredge samples prior to examination.

Made of extra heavy-duty plastic with molded pouring spout and heavy chromed handle. Bottom is stainless wire cloth (#30 mesh) reinforced with a stainless steel plate with 1/2″ drainage holes. Sturdy stainless ring helps maintain circular shape. 12″ dia. x 8″ deep. Three-gallon (12-liter) capacity.

WaterMark Sieve Bucket	2 lbs.	**77255**	**$99.25**

Nalgene® Large Wide-Mouth Bottles page 478

Stream Samplers page 372

Wildco® Acrylic Vertical Kemmerer Kits
2207

Each of these kits features a clear acrylic kemmerer water bottle with silicone rubber end seals. Designed so that the water sample touches only plastic parts and no metal touches the sample, the kemmerer is ideal for trace metal sampling. Kit includes kemmerer water bottle, 100′ of 3/16″ poly line, messenger, and carrying case.

1.2 Liter Kit 13 lbs.	**77288**	**$537.00**
2.2 Liter Kit 15 lbs.	**77289**	**$567.00**

Braided Nylon Utility Cord
3263

Strong, durable, lightweight 3/16″ nylon cord is handy for lowering and retrieving bailers and lightweight dredges. 100' Hank.

Braided Nylon Utility Cord, 100′ 6 oz.	**83299**	**$5.50**
	24+	**$4.50**

Solid Braided Rope
3259

Ideal for lowering or retrieving bailers in wells. Durable, 3/16″ rope stays flexible and easy to handle. Holds knots well and is not affected by UV light. **Tensile strength:** 620 lbs.

3/16″ x 100′ Spool 2 lbs.	**77909**	**$31.50**
3/16″ x 500′ Spool 6 lbs.	**83323**	**$51.75**

Note: Reel is not included with the 500′ model.

Hollow Braided Poly Rope
3223

This 1/4″ colorfast, highly visible yellow rope is weather-resistant. 100% hollow braided polypropylene. **Tensile Strength:** 990 lbs. **Working Load:** 198 lbs. 1,000′ Reel.

Hollow Braided Poly Rope, 1/4″ x 1000′ 8 lbs.	**83314**	**$41.50**
	4+	**$39.50**

❶ Extra Charge if Shipped by International Air. See Shipping Information for details.

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1 WaterMark® Surber Type Stream Bottom Sampler
5044

WATER MARK®

Used for "semi-quantitative" analysis of benthic stream organisms. Can be used in silt or large cobble. Substrates contained within the 12″ x 12″ folding brass frame are agitated to dislodge insects while water flow transports animals into plankton net. Heavy-duty Nitex® mesh net is supported by perpendicular frame members. Nylon carrying bag also included.

500 µ Mesh Net	4 lbs.	**77926**	**$460.95**

2 WaterMark® Stream Drift Net
5045

Collects aquatic insects moving in running waters. Nitex® net is supported open and staked to sediments with 11″ x 18.5″ stainless steel frame. Sample is concentrated in a two-piece, PVC collecting bucket, lined with Nitex® nylon mesh. Net is 40″ long.

500 µ Mesh Net	4 lbs.	**77929**	**$341.50**

Helley-Smith Hand-Held Sampler
6605

Specially designed for collecting sand, silt, gravel, or rock debris carried by streams or immediately above their beds. Ideal for collecting bed load materials which have partial sizes or a density that does not allow great movement above or away from stream bed. 4 lb. (1.8 kg) Hand-held sampler has a 3″ x 3″ entrance opening and a 3.22 expansion ratio chamber. 250 Micron mesh bag (sold separately) is made of nylon for excellent abrasion resistance. Sampler made of stainless steel. Handle extends from 4′ to 8′.

Helley-Smith Hand-Held Sampler 5 lbs.		**77528**	**$368.00**
Mesh bag for sampler (250 micron mesh) 2 oz.		**77530**	**$62.00**

3 Wildco® Surber Type Stream Bottom Sampler
5042

Gathers samples of insects, larva, and other forms of aquatic life found in shallow flowing streams. Consists of nylon net (6″ downstream dia. x 24″L) supported by stainless steel folding framework with sampling and net inlet of 12″ x 12″.

With Nitex bolt cloth net and taffeta wings for durability, 363µm mesh	8 lbs.	**77436**	**$379.75**
With Nitex bolt cloth net and taffeta wings for durability, 500µm mesh	8 lbs.	**77437**	**$363.95**
With Nitex bolt cloth net and taffeta wings for durability, 600µm mesh	8 lbs.	**77438**	**$369.50**
With nylon multifilament net, 900 µ mesh; multifilament net is less dimensionally stable, but somewhat easier to handle than nylon Nitex monofilament net	12 lbs.	**77247**	**$369.50**
With nylon Nitex monofilament net, 1,000 µ mesh	8 lbs.	**77246**	**$379.75**

4 Wildco® Hess Stream Bottom Sampler
5043

Effectively samples gravel and cobble stream bottoms. Stainless steel cylinder with two large windows and a pair of strong handles forcibly pushes cylinder into gravel or cobble stream bottoms. Penetration depth is adjustable. Water flows in through upstream window of sampler, out through downstream window, and into collecting net and bucket. Forward window of sampler is covered with nylon Nitex® bolting cloth. Cylinder is 13″ I.D. x 16″ H with an area of 133 square inches.

Sampler, 500 µ Mesh Net	10 lbs.	**77888**	**$599.00**
Sampler, 600µm Mesh Net	12 lbs.	**77887**	**$651.75**
Sampler, 1000µm Mesh Net	12 lbs.	**77889**	**$678.50**

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1 WaterMark® Simple Plankton Nets
5053

Each net comes complete with heavy-duty Nitex® nylon net, a stainless steel ring and bridle, and PVC cod end assembly. The high efficiency cod end (7.5 cm dia.) is a two-piece design with stainless steel fasteners. The lower collection cup is lined with Nitex® mesh where the entire sample is concentrated and easily removed. Made in the U.S.A.

2 WaterMark® Student Plankton Net
5048

This 15 cm diameter x 50 cm length Nitex® plankton net comes with a stainless steel ring and bridle, clear polycarbonate cod-end assembly with valve action drain, and 10.0m line. Nitex® nylon nets are available in 80 µ, 153 µ, and 363 µ mesh sizes.

80 µ Mesh Net	2 lbs.	**77919**	**$130.50**
153 µ Mesh Net	2 lbs.	**77918**	**$138.75**
363 µ Mesh Net	2 lbs.	**77920**	**$130.50**

3 WaterMark® Wisconsin-Style Plankton Net
5052

The high-efficiency reduction collar of this net enables quantitative vertical plankton hauls. Dacron® collar is supported open by double stainless steel rings (20 cm and 30 cm diameter) and is sewn to a 30 cm diameter x 90 cm long x 48 µ, 80 µ, or 153 µ Nitex® nylon plankton net. A three-point stainless steel bridle, two-piece PVC collection bucket (lined with 48 µ, 80 µ, or 153 µ Nitex® mesh), 20.0m line, and nylon carrying case are included.

48 µ Mesh Net	6 lbs.	**77942**	**$476.75**
80 µ Mesh Net	9 lbs.	**77917**	**$460.75**
153 µ Mesh Net	10 lbs.	**77943**	**$460.75**

4 Fieldmaster® 5″ Student Plankton Nets
5049

Nets feature a small net ring and a 15″ net. Net is made of Nitex® nylon for durability and accuracy of mesh size. The 5″ diameter net mouth is braced open by a stainless steel ring and bridle. Wire tow lines converge at a copper grommet with a nickel-plated steel swivel. Includes a mini dolphin net/bottle adaptor with a 125 ml sample bottle.

Plankton Net, 80 µ Mesh Net	6 oz.	**77891**	**$79.25**
		3+	**$73.75**
Plankton Net, 153 µ Mesh Net	6 oz.	**77890**	**$75.50**
		3+	**$69.00**
Plankton Net, 363 µ Mesh Net	5 oz.	**77944**	**$94.95**

5 Wildco® 8″ Student Plankton Net Sampler
5050

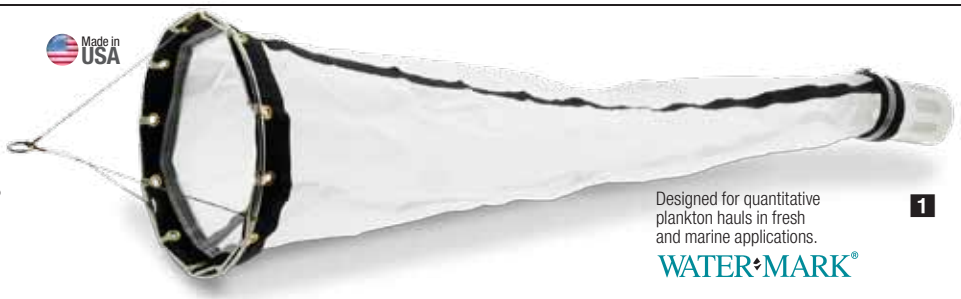
For student use where a flow-through straining bucket is not required. Supplied completely assembled with stainless steel hoop and nylon bridle assembly, rugged nylon Nitex® net with 8″ mouth diameter, and a 125 ml plastic bottle for sample collection and removal.

With 80 µ Mesh Net	8 oz.	**77234**	**$93.95**
With 153 µ Mesh Net	8 oz.	**77233**	**$89.25**

6 LaMotte® Plankton Nets
5051

These cone-shaped nets are made of 10 per inch mesh nylon cloth (153µ mesh net). Plankton particles are collected in the 50 ml conical graduated tube at the tip of net. The net mouth is braced open by a brass ring and harness. Two tubes included. Available in two sizes.

5″Dia. x 15″L	7 oz.	**77139**	**$92.25**
12″Dia. x 38″L	1 lb.	**77221**	**$159.00**



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WaterMark® Simple Plankton Nets

Mesh Size	Weight	Mouth Diameter x Length							
		30 cm x 90 cm		30 cm x 120 cm		50 cm x 150 cm		50 cm x 200 cm	
20 µ	3 lbs.	**77964**	**$340.75**	**77974**	**$370.50**				
50 µ	4 lbs.	**77965**	**$321.75**	**77975**	**$355.50**	**77984**	**$584.50**		
64 µ	3 lbs.	**77922**	**$306.95**	**77923**	**$341.50**				
80 µ	4 lbs.	**77966**	**$307.95**	**77976**	**$355.50**	**77985**	**$557.25**		
153 µ	4 lbs.	**77968**	**$307.95**	**77978**	**$339.95**	**77987**	**$540.25**	**77996**	**$569.25**
250 µ	4 lbs.	**77970**	**$293.95**	**77980**	**$324.75**	**77989**	**$524.50**	**77998**	**$557.25**
363 µ	4 lbs.	**77972**	**$293.95**	**77982**	**$324.75**	**77991**	**$524.50**	**77945**	**$557.25**

Note: Other mesh sizes are available. Call for details.

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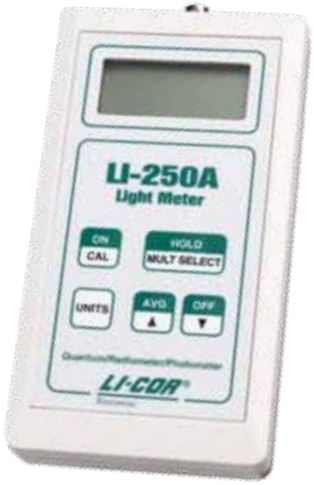
New! LI-COR® LI-1500 Light Sensor Logger

6604

This light sensor logger features a menu-driven interface, 1 GB of flash memory, and a USB interface for easy data transfer. A GPS version of the LI-1500 is also available. Attach your choice of LI-COR "SA" version sensors (sold separately) to the logger's three BNC connectors. Logging can be done manually, or menus can be used to set up one-time, daily, or continual measurement routines. With Standard Modes sampling, the logger collects samples at up to 20 Hz from up to three sensors at once, and math operations and averaging can be applied to the data. Raw Mode sampling collects samples at up to 500 Hz from one sensor and is ideal for high frequency applications. Graph large data sets using LI-COR's free FV7x00 software. When attached to a computer, the logger acts as a mass-storage device with a simple drag-and-drop file system. In addition, configurations and sensor calibration data can be transferred to a computer and then shared with other LI-1500 units. The ergonomic logger case is weather-resistant and features a rubber seal that serves as a shock cushion between the two halves.

Display: 128 x 64 graphics display. **Power Supply Options:** 4 AA batteries, USB, AC/DC power adapter. **Operating Temperature Range:** -20°C to 50°C. **Dimensions:** 8.2″x 3.9″x 1.4″. **Weight:** 1.0 lb. with batteries.

LI-1500 Light Sensor Logger with GPS, Logger features a built-in GPS that records the location of measurements and facilitates repeated visits to the same location for tracking light levels over time. GPS data can be logged independently or with light data.	12 lbs.	**92538**	**Call for $**
LI-1500 Light Sensor Logger	12 lbs.	**92539**	**Call for $**



LI-COR® LI-250A Light Meter

6603

Allows measurements in a variety of light environments.

Direct digital readout displays instantaneous sensor output of 15 second averages. Measures µmol, lux k lux or Wm-2. Meter automatically selects range with best accuracy and resolution for a given input signal so that measurements can be made in a variety of light environments. High quality amplifier provides automatic zeroing capability and long term stability. Calibration multipliers can be entered easily, and two sensor multipliers can be stored in memory. HOLD key allows you to retain current reading or switch to measurement mode for continuous update of display. Low battery indicator. Automatically shuts off after 20 minutes of inactivity. Avoid contact with water. Sensors sold separately below.

Accuracy: 25°C: typically ± 0.4% of reading ± 3 digits on the least significant digit displayed (all ranges); **0-55°C:** typically ± 0.6% of reading ± 3 digits on the least significant digit displayed (all ranges). **Range selection:** Autoranging (3 ranges). **Range:** 199 µmol s-1 m-2, 1,999 µmol s-1 m-2, 19,999 µmol s-1 m-2. **Resolution:** 0.01 µmol s-1 m-2, 0.1 µmol s-1 m-2, 1 µmol s-1 m-2. **Linearity:** ± 0.05%. **Display:** 4-1/2 digit LCD display, updated every 0.5 seconds in instantaneous mode. **Keypad:** Sealed, 5-key tactile response keypad. **Power:** One 9-volt alkaline battery (included). **Battery Life:** 150 hours. **Weight:** 0.57 lbs. **Dimensions:** 5.5″L x 3″W x 1.5″D.

LI-250A Light Meter	10 oz.	**92531**	**Call for $**

Accessories for LI-1400 DataLogger and LI-250A Light Meter

6604, 6603

LI-190SA Quantum Sensor (Terrestrial)

Measures Photosynthetically Active Radiation (PAR) accurately in natural and artificial light. Also ideal for comparing underwater PAR measured by the Li-Cor® LI-192SA Underwater Quantum Sensor (sold separately). Cable measures 3 meters.

LI-190SA Quantum Sensor (Terrestrial)	9 oz.	**92533**	**Call for $**

LI-192SA Underwater Quantum Sensor

For use with the Li-Cor® LI-1500 Light Sensor Logger (sold separately) to measure underwater or atmospheric photosynthetic photon flux density. For use in freshwater or saltwater in pressures up to 800 psi (5,500 kPa, 560 meters depth). Requires underwater cable and lowering frame, both sold separately.

LI-192SA Underwater Quantum Sensor	10 oz.	**92534**	**Call for $**

Underwater Cable

For use with underwater sensors. Cable measures 3 meters.

Underwater Cable	12 oz.	**92535**	**Call for $**

Lowering Frame

Provides stability for the proper orientation of the sensor or sensors and minimizes shading effects.

Lowering Frame	13 oz.	**92536**	**Call for $**

LI-193SA Underwater Spherical Quantum Sensor

For use with the Li-Cor® LI-1500 Light Sensor Logger or LI-250A Light Meter (sold separately). Measures underwater photon flux from all directions in saltwater or freshwater. Requires underwater cable and lowering frame, both sold separately.

LI-193SA Underwater Spherical Quantum Sensor	12 oz.	**92537**	**Call for $**

WATER•MARK®

WaterMark® Limnological Secchi Disc with Detachable Sounding Weight

5072

This 20 cm dia. polycarbonate disc with a detachable 24 oz. zinc sounding weight features silk screened black and white quadrants. Includes stainless steel hardware, reel, and 20.0m nylon cord.

Heavy-Duty Professional Polycarbonate Disc	M	5 lbs.	**77914**	**$106.00**

M Metric

[search engine powered by magazooms.com]

ClineFinder™ Digital Thermometer

6933

Manufacturer's Warranty 1 Year

Provides fast temperature readings!

The ClineFinder™ measures water temperature at any depth from the surface to 50 feet (15.25 meters), with updates every 2.5 seconds. A compact cable reel allows easy extension and retraction of the probe, and depth is marked on the cable every 2 feet (0.5 meters) with mil-spec markers. Completely surrounded by water, the low-mass sensor provides exceptionally fast temperature readings. One-year manufacturer's warranty.

Operating range: 30°F to 115°F (-1°C to 46°C). **Accuracy:** ±0.5° over operating range. **Resolution:** 0.1°. **Power:** 3 AA alkaline batteries (included).

ClineFinder Digital Thermometer, °F	E	2 lbs.	**89016**	**$159.95**
ClineFinder Digital Thermometer, °C	M	2 lbs.	**89002**	**$159.95**

Secchi Tubes

8363

Designed to function like the traditional Secchi disk used in lake monitoring. A weighted Secchi disk is lowered into the tube by a line, allowing you to raise and lower the Secchi disk within the same water sample numerous times. This method allows for averaging the water transparency readings. At the top of the Secchi-Tube is a hole that drains excess water off to bring the water sample level down to the "zero" mark on the centimeter scale. Made of polycarbonate with an easy-to-read centimeter tape. Features the Secure Stopper™ and all stainless steel hardware. Available in two sizes.

60 cm Secchi Tube	12 oz.	**77089**	**$43.25**
		10+	**$40.25**
120 cm Secchi Tube	1 lb.	**77090**	**$58.75**

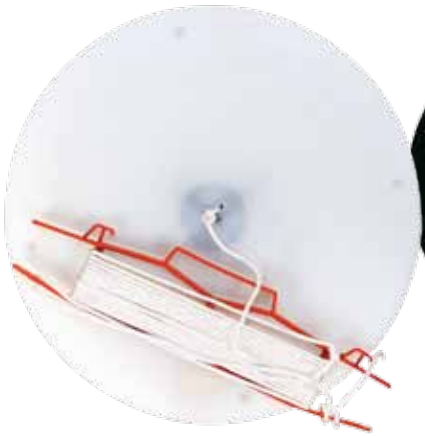
Transparency/ Turbidity Tubes

5073

Accurately measures water clarity.

Features a clear polycarbonate tube with numeric centimeter scale on the side and a 4.5 cm standard secchi disc design in the bottom of tube. Secchi disc is screwed to a rubber stopper which can be removed for easy cleaning. Drain hose with finger crimp allows sample to be drawn off until secchi pattern is visible. The 120 cm tube is also applicable for use in The GLOBE Program.

60 cm Tube 12 oz.	**77107**	**$42.95**
120 cm Tube 1 lb.	**77096**	**$58.75**



WATER•MARK®

WaterMark® Oceanographic Weighted Secchi Disc

5070

Constructed of white high density polyethylene, this 51 cm diameter disc comes with stainless steel hardware, built-in 5 lb. lead sounding weight, 20.0m nylon cord, and reel.

WaterMark Oceanographic Weighted Secchi Disc 8 lbs.	M	**77915**	**$190.00**

E English
M Metric

WATER•MARK®

WaterMark® Limnological Weighted Secchi Disc

5075

Silk screened with black and white quadrants, this 20 cm diameter secchi disc is made of Sintra® PVC. **Unit includes:** stainless steel hardware and built-in 24 oz. zinc sounding weight.

WaterMark® Limnological Weighted Secchi Disc, Black/White 2 lbs.	**77912**	**$50.25**
	5+	**$47.75**

Fieldmaster® Student Secchi Disc

6717

Ideal for use in laboratory assignments dealing with water clarity. Perfect for any type of water, this 20 cm dia. limnological disc is constructed of heavy-duty ABS plastic with black and white quadrants on one side and solid white on the other. Includes built-in 1 lb. sounding weight, 20m nylon line, and instructions.

Fieldmaster Student Secchi Disc 2 lbs.	**77179**	**$29.50**
	5+	**$25.95**

LaMotte

LaMotte® Sounding Weight & Calibrated Line

5076

Marked 0 to 20m in 1m increments, this heavy nylon line can be used with secchi discs to determine turbidity of water or with the accompanying 2 lb. zinc sounding weight to test overall depths of ponds, lakes, rivers, etc. Line features a spring clip for quick attachments and is wound on a foam spool which doubles as a flotation device to prevent accidental loss of line if dropped overboard.

LaMotte Sounding Weight & Calibrated Line 3 lbs.	M	**77140**	**$59.25**

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LaMotte

LaMotte® Water Sampling and Measurement Kit

5032

Lightweight, compact, and simple to operate without extensive training.

Use to collect water samples, bottom samples, and plankton samples and to measure turbidity, temperature, and color. Kit includes D.O. water sample bottle, bottom sampling dredge, secchi disc, zinc sounding weight and calibrated line, plankton net, Forel Ule color scale, and armored thermometer (-5°C to 50°C in 0.5° graduations). Packed in a 14″ x 7″ foam-lined carrying case.

LaMotte Water Sampling and Measurement Kit	15 lbs.	**77142**	**$509.00**

WATER•MARK®

WaterMark® Water Sampler Field Kit

5030

Ideal for water sampling at any depth, zooplankton collections, and secchi disc transparency measurements. **Kit includes:** clear polycarbonate 1.0 liter water sampler, 200g messenger, 20 cm limnological secchi disc; armored thermometer (liquid spirit filled, -5°C to +40°C in 0.5° increments); student plankton net (20 cm diameter x 60 cm length x 153 µm); three 20.0m nylon cords, line reels, plastic carrying case, and instructions.

With Vertical Water Bottle (M)	15 lbs.	**77907**	**$594.00**

Wildco

Wildco® Water Sampling Field Kit

5033

For obtaining samples of water and plankton organisms, determining water transparency index, and measuring water depth to 20m. Includes one 1-liter horizontal style clear acrylic water bottle, thermometer (-40°C to +120°C in 1° graduations), 153µ mesh plankton net, standard secchi disc with black and white quadrants, and one 20m nylon line (can be marked with indelible ink). Sturdy plastic carrying case included.

Wildco Water Sampling Field Kit	11 lbs.	**77273**	**$375.95**

Fieldmaster® View Bucket™

3003

Check out what is on the bottom of your stream or pond with this transparent-bottomed bucket. Simply place it in the water and push down until you have a clear view of the bottom. The plastic pail measures 9-5/8″ dia. x 10-7/8″ deep. The transparent bottom is carefully tapered and glued to prevent leakage.

Fieldmaster View Bucket	2 lbs.	**77212**	**$99.95**

(M) Metric

Collapsible Sampling Squares

8531

Use these lightweight, collapsible sampling squares to quantify your field study results. Quickly mark off 0.25m^2 or 1m^2 (two sizes available). Two-dimensional square formed by four PVC legs connected with two PVC T-connectors. Shock cord contained inside the pipe legs.

0.25 Meter Sampling Square	1 lb.	**53149**	**$28.50**
1 Meter Sampling Square	2 lbs.	**53150**	**$38.95**

Aqua Scope II™

5078

Perfect for school projects!

Use this 26″ viewer to view secchi disc readings and observe aquatic plant and animal life. Innovative design eliminates surface glare and internal reflection. Consistent viewing parameters, regardless of environmental conditions, are possible with this unit's black interior, flotation collar, neoprene viewing mask, and handle. Constructed of crush-resistant tube.

Aqua Scope II	2 lbs.	**77124**	**$73.50**
		4+	**$68.50**

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WaterMark® Hester-Dendy Multiple Plate Samplers
5037

These multiple plate samplers are designed for substrata sampling of macroinvertebrate organisms found in rivers, streams, lakes, and tidal flats. Hardboard plates are divided by special nylon spacers and when left in place for about two weeks will attract a good collection of insect larva and other organisms. Plates have smooth surfaces on each side, are fastened together with a long eye bolt, and can easily be disassembled for specimen examination. Each spacer and each plate is 3 mm thick.

WATER MARK®

Round Multiple Plate Sampler

Consists of fourteen 7.5 cm diameter hardboard plates spaced by eight single spacers, one double spacer, two triple spacers, and two quadruple spacers. The sampler meets EPA description and will fit in a widemouth mason jar for transport or storage. **Surface area:** 0.13m².

Round Multiple Plate Sampler	10 oz.	**77266**	**$31.95**

Square Multiple Plate Sampler

Consists of nine 3″ x 3″ hardboard plates separated by single spacers. **Surface area (approximate):** 1 ft².

Square Multiple Plate Sampler	8 oz.	**77265**	**$29.25**
		5+	**$26.75**

Accessories

Braided Nylon Utility Cord, 100′	6 oz.	**83299**	**$5.50**
		24+	**$4.50**
3/16″ x 100′ Spool	2 lbs.	**77909**	**$31.50**

Wildco® Bogorov Counting Chambers
3002

Ideal for counting zooplankton micro-crustacea. The perfect size at only 3-1/2″ x 4-1/2″, these chambers hold a small volume of sample for observation under a dissecting microscope. The shape and configuration of the shallow, etched grooves help locate specific areas on the chamber. Straight sides prevent focusing up and down and the round edges prevent specimens from catching.

Bogorov Original Counting Chamber Capacity: 6 ml. Grooves are 1/8″ D x 3/16″ Thick. Pack of 2.	5 oz.	**77250**	**$49.95**
Bogorov Modified Counting Chamber Capacity: 39 ml. Grooves are 1/2″ D x 3/8″ Thick. Pack of 2.	7 oz.	**77249**	**$74.95**

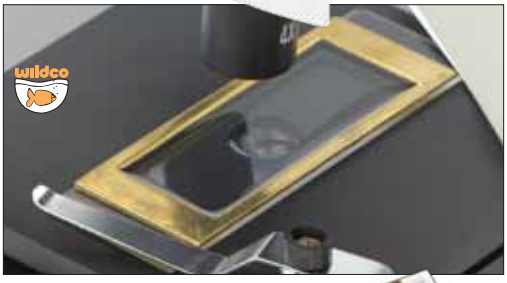
Wildco® Periphyton Sampler
5038

Artificial substrate sampling device floats inconspicuously in water and exposes eight standard microscope slides to water for sampling. Developed to EPA requirements, sampler has polyurethane closed cell floats, three anchorage points for above or below water attachment, stainless steel frame, and cellulose acetate butyrate tray that holds 16 standard 1″ x 3″ microscope slides (included). Slides may be removed for examination. Self-righting. 14-3/4″L, 7-3/4″W, 6-1/2″H.

Wildco Periphyton Sampler	1 lb.	**77267**	**$92.00**

Wildco® Sedgewick-Rafter Counting Cell
5036

A 1 ml counting cell 45 mm long, 20 mm wide, 1 mm high. Precision rectangular brass cell is bonded to 1″ x 3″ (25 mm x 75 mm) glass slide. Supplied with two extra cover glasses and plastic case. Meets APHA and "Standard Methods" specifications.



Sedgewick-Rafter Counting Cell (M)	1 oz.	**77239**	**$48.50**
Replacement Cover Glass, pack of 12	2 oz.	**77240**	**$31.20**

Wildco® Gridded Sedgewick-Rafter Counting Cell
5036

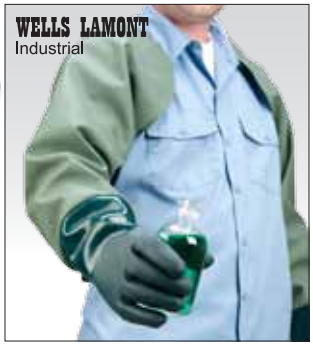
1 mm x 1mm Gridded design is used for counting larger plankton. Intended for use with a standard or inverted compound microscope at low magnifications (up to 200x). The 1 ml counting cell measures 50 mm long x 20 mm wide x 1 mm high and is mounted on a 1″ x 3″ glass slide.

Gridded Sedgewick Rafter Cell	1 oz.	**77227**	**$124.95**

Wildco® Artificial Substrate Basket
3001

Ideal for substrata sampling of macroinvertebrate organisms found in rivers, streams and lakes. The basket design allows you to use it in combination with natural materials such as rocks and sticks for colonization. Made of 1″ square galvanized wire and measures 6-1/2″ Dia. x 11″L. The wire is coated with PVC to resist corrosion. One end is hinged and is tied with a nylon releasable tie while the other end is permanently fastened.

Artificial Substrate Basket 2 lbs.		**77211**	**$36.25**



Wells Lamont® Lined PVC Sports Gauntlet Gloves
2930

These full arm length gloves are constructed of foam-lined PVC that remains flexible even at low temperatures. Treated to resist the growth of mold, mildew, and odor-causing bacteria. Shoulder strap connects the pair of gloves. Green.

Wells Lamont Lined PVC Sports Gauntlet Gloves, Large, One Pair 1 lb.		**94041**	**$25.75**

Economy Vinyl Stocking Foot Waders
6593

Waders have durable electronically welded seams and are extra full cut for a more comfortable fit. Other features include attached suspenders and convenient inside pouch. **Color:** Marsh brown.

Vinyl Stocking Foot Waders, Large, 36″ to 40″ Waist 1 lb.		**93967**	**$13.25**
		24+	**$11.75**

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LaMotte® Student Grade Kick Net

3662

Ideal for student macroinvertebrate collection. Durable mesh net measures approximately 35″ x 45″ and has three inch pockets on opposite sides to hold poles in place. Poles are not supplied with unit. **Mesh Size:** approximately 1/32″.

Student Grade Kick Net	1 lb.	**78012**	**$35.15**

LaMotte® Professional Kick Net

3661

This 1 x 1 meter square, 500 micron, mesh net is designed to meet the requirements of groups performing USEPA Rapid Bioassessment Protocols for benthic invertebrates. Features hemmed sides for poles and reinforced bottom seam for anchoring.

Net with Poles	3 lbs.	**78010**	**$96.95**

Wildco® Bottom Aquatic Kick Net

5067

Specially designed for picking up bottom dwelling specimens over a wide area.

Hardwood handle is detachable. Heavy muslin reinforces entire bottom of net, as well as ring edges of net to provide added strength. Net is attached with clips. Ring size, 18″ x 8″; net depth, 10″; net material mesh size, 800 x 900 micron. Handle length is in two pieces and is 66″.

Wildco Bottom Aquatic Kick Net			
5 lbs.		**77676**	**$189.00**
	3+		**$179.00**

WaterMark® Bottom Aquatic Kick Net

5065

Perfect for qualitative sampling of benthic organisms in streams, rivers, and lake shores.

Net includes: 10″ x 18″ stainless steel rectangular frame; detachable, 60″ aluminum handle with stainless steel threaded attachment; and 10″ deep reinforced 500 µm Nitex® nylon net. EPA approved for Rapid Bioassay Assessment Programs.

Bottom Aquatic Kick Net			
4 lbs.	X	**77921**	**$241.00**
	3+		**$228.00**

LaMotte® D-Net

3663

Twelve inch rim D-Net is fitted with a heavy canvas bag approximately 6-1/2″ deep attached to the metal frame with clamp rings. Bottom of bag is a mesh material of approximately 500 micron nylon. Canvas skirt extends three inches below bag bottom to protect mesh. **Length:** 52″; 84″ fully extended.

D-Net with Poles			
5 lbs.		**53788**	**$76.50**
	3+		**$73.95**
Replacement Bag			
5 oz.		**53789**	**$16.75**

Aquatic Net

5064

Special "D-shaped" opening allows you to easily scrape stream bottoms or "sweep" in thick vegetation.

Heavy cotton/polyester bag with non-rotting thread is secured to 12″ wide D-rim by hog rings and has nylon mesh bottom 8″ below rim. Extended 4″ skirt protects mesh from snags and wear. **Mesh Size:** Approximately 500 Microns. 5′ Hardwood handle.

Aquatic Net			
3 lbs.	O	**53755**	**$83.50**
	4+		**$77.95**
Replacement Net Bag			
7 oz.		**53756**	**$19.75**

Economy Aquatic Net

5063

Lightweight aluminum handle is 3/4″ in diameter, 3′ long. Net hoop is 1/4″ spring steel. Round shaped net bag is 12″ in diameter, made of sturdy unbleached muslin, and has extended skirts below the mesh to prevent snagging. 1,000 microns.

Economy Aquatic Net			
12 oz.		**53757**	**$42.25**
	6+		**$40.75**
	12+		**$38.75**
Replacement Net Bag			
3 oz.		**53750**	**$12.50**

X Items 60″ or more require an additional handling charge.

O Oversize. Ships at Oversize rate. See Shipping Information for details.

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Polyester Seine
5059

Great for students!

It measures 10′ long and is 4′ high. Constructed of 1/4″ polyester mesh. Complete with floats and leads. Poles not included.

Polyester Seine	1 lb.	**77699**	**$22.95**

Nylon Minnow Seines
5057

Knitted to ensure long life and superior service.

Constructed of ace nylon – strong, long lasting, fast drying and will not mildew. Includes floats and weights. Poles not included.

4′ x 20′ Net, 3/16″ mesh	5 lbs.	**77668**	**$149.95**
4′ x 30′ Net, 1/4″ mesh	7 lbs.	**77669**	**$190.75**

Low Voltage Gloves
3512

Made of natural rubber, these gloves are for use on circuits of up to 1,000 volts. Widely used in meter departments and other low voltage applications.

Class number: 0. **Test voltage:** 5KV. **AC Maximum Use Voltage in accordance with ASTM specifications D120-87:** 1,000 volts. 11″ long.

Size 9 11 oz.	**26971**	**$76.25**
Size 10 12 oz.	**26972**	**$76.25**

Electro-Shock Dip Nets
5055

The fiberglass handle prevents user shock!

Unique Monorail aluminum bow construction eliminates netting abuse from rocks, sand, bait tanks, etc. Nylon netting is completely encased in the bow. Two handle lengths available, 6′L x 1″ diameter yellow handle and 8′L x 1-1/4″ diameter heavy duty black handle. **Dimensions:** 16″ x 16″ bow. Ace nylon net is 3/16″ mesh x 8″ deep.

6′L x 1″ dia. Handle 2 lbs.	X	**77608**	**$51.25**
8′L x 1-1/4″ dia. Heavy Duty Handle 3 lbs.	X	**77610**	**$69.25**
Replacement Net 2 oz.		**77308**	**$12.50**

Baitwell Nets
5061

Ideal for handling small fish or bait.

Features include a Monorail aluminum handle and a 12″ deep, 3/16″ mesh nylon net. Nylon net is completely encased within the 16″ x 16″ bow, eliminating abuse from rocks, sand, and bait tanks. Two handle lengths available.

Baitwell Net with 4′ Handle 1 lb.	X	**77314**	**$31.25**
Baitwell Net with 4′ to 8′ Telescoping Handle 2 lbs.	X	**77609**	**$39.25**
Replacement Net 3 oz.		**77323**	**$12.75**

Baitwell Food Fish Dip Net
5062

With its unique Monorail construction, double-walled 42″ aluminum handle, and tangleless coated nylon, this 22″ deep net offers excellent strength and maximum flexibility. The 1/2″ square, knotless nylon net is encased within the 17″ x 21″ bow, protecting the net from bait tanks, sand, and rocks.

Baitwell Food Fish Dip Net 2 lbs.		**77315**	**$46.75**

X Items 60″ or more require an additional handling charge.

Bait Nets
6960

6″ x 8″ Bow with black micro-mesh netting. Aluminum handle and galvanized loop. Cap and loop hanger.

12″ Handle 5 oz.	**77357**	**$8.95**
36″ Handle 7 oz.	**77358**	**$10.75**

Baitwell Fry Net
5060

Features a 7″ x 6″ galvanized wire bow with 18″ wooden handle. 8″ Deep net is constructed of 1/8″ mesh nylon.

Baitwell Fry Net 10 oz.	**77313**	**$11.95**

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Stealth 1200 Boat
3728

3 Manufacturer's Warranty 3 Year

Weighing in at 100 pounds, the Stealth 1200 can go just about anywhere in small-water conditions. The twin hull catamaran style bottom gives this boat amazing stability, yet floats in only 4 - 5 inches of water. Made of durable polyethylene, the Stealth 1200 measures 12 feet long and has a 550-pound weight capacity. Features include a molded-in contour seat, a non-skid floor, a gun rack with shell holder, dry storage compartment, cup holder, and molded-in handles. The Stealth 1200 resists damaging Ultraviolet rays and includes a three year warranty from the manufacturer. **Dimensions:** Overall, 12′L x 44″W x 17″ Deep; Cockpit, 8′L x 27″W x 13″ Deep. Made in the USA.

Stealth 1200 Boat	F	100 lbs.	**36105**	**$719.99**
9′L Kayak Paddle	O	4 lbs.	**36101**	**$48.50**
Camo Seat Box		26 lbs.	**36104**	**$169.99**
Motor Mount		9 lbs.	**36108**	**$59.99**

Phantom Boat
3729

3 Manufacturer's Warranty 3 Year

This unique layout boat is extremely maneuverable, very lightweight (55 lbs.), and with its low profile, is a ghost in the marsh. Featuring a twin hull design, it is very stable and is easily handled by one person which allows you into areas that were previously unreachable. The custom contoured interior is very comfortable with built-in foot locks, a head rest, and a non-skid floor. Other features include one-piece, rugged polyethylene construction, a watertight storage compartment, a molded in handle, and it is resistant to damaging Ultra-Violet rays. The Phantom Boat is backed by a 3-year warranty from the manufacturer. **Weight Capacity:** 360 lbs. **Dimensions:** 9′L x 32″W x 13″Deep.

Phantom Boat	F	55 lbs.	**36106**	**$369.99**
9′L Kayak Paddle	O	4 lbs.	**36101**	**$48.50**

HawkEye® Portable Fish Finder
3647

2 Manufacturer's Warranty 2 Year

Model F33P

Ideal for bottom contouring and mapping of lakes, rivers, and creeks! Simply toss the floating transducer into the water and view the screen for instant readings. Takes bottom structure, depth, and fish readings from 2.5′ to 200′ (.8 to 61 meters). Other features include Shoot-Thru technology which reads through boat hulls and ice, a battery save mode, auto power off, a SoftGlow™ backlit display, pivoting VirtuView LCD Icon Display, and a water-resistant splashproof design. Includes handheld display, portable sonar sensor (transducer), transom/side-scan adapter, sonar sensor float, storage bag, and neck strap. Two-year manufacturer's warranty.

Cable Length: 30′. **Power:** 4 AAA batteries (not included). **Sonar Frequency:** 200 KHZ. **Beam Angle:** 25°. **Dimensions:** 2.8″x 4.3″.

Model F33P HawkEye Portable Fish Finder	2 lbs.	**90302**	**$75.95**

Humminbird 999ci HD SI GPS/Sonar Combo
8705

Built around an 8″ color TFT display with 480V x 800H resolution, the 999ci HD SI uses Humminbird's exclusive High-Definition Side Imaging Sonar to view amazingly clear, picture-like images of fish, the bottom and structure. It's the ultimate structure-finding tool, and with its massive coverage (480 feet from side to side!) you can scan in mere minutes what used to take hours. With the ultra-wide display, you can easily view Side Imaging and the built-in, down-looking DualBeam Plus sonar or other screens simultaneously. Record and playback sonar readings, and even make sensitivity and other adjustments to the recording. Also comes with a 16-channel GPS/WAAS receiver.

Display: 8″ Diagonal 480V x 800H 16:9 Color TFT. **Memory – Waypoints:** 3,000. **Routes:** 50. **Tracks:** 50 w/20,000 points each. **Sonar – DualBeam PLUS:** 200 kHz / 20° @ -10db; 83 kHz / 60° @ -10db. **Depth:** 1500 ft. **HD Side Imaging:** 455 kHz / (2) 86° @ -10db; 800 kHz / (2) 55° @ -10db. **Depth:** 150 ft. 180° total coverage. **Power Output:** 1000 Watts (RMS); 8000 Watts (Peak-to-Peak). **GPS Features:** 16 Channel GPS with Trackplotting, Chartplotting, GPS Speed, and Humminbird UniMap. **Power:** 12V DC.

Humminbird 999ci HD SI GPS/Sonar Combo	10 lbs.	**90305**	**$1499.99**

F Ships Motor Freight. See Shipping Information for details.
O Ships at Oversize rate. See Shipping Information for details.

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Fish Hawk TD

7785

Depth and temperature meter.

Thanks to highly accurate temperature and water pressure sensors, the Fish Hawk TD provides an accurate water temperature profile of the entire water column by showing the water temperature at every 5-feet of depth down to 300-feet. The Fish Hawk TD also reveals the true running depth of copper, leadcore, and dipsey lines. Saltwater approved.

Operating Depth Range: 0-300 feet. **Maximum Depth:** 400 feet. **Operating Temperature Range:** 32°F to 102°F. **Unit of Measure:** English or metric. **Internal Lithium Battery:** 20-year shelf life.

Fish Hawk TD	C	4 oz.	**90104**	**$155.00**

Fish Ray Handheld Sonar Depth Sounder

4704

Simply place the nose end of the Fish Ray in the water and pull the trigger to quickly obtain water depth measurements. Readings instantly appear on the digital LCD display in feet. Once you determine a stable bottom depth, you can then slowly sweep the Fish Ray through the water to scan for sudden depth changes that indicate the presence of fish or contour variations. The rugged, high-impact housing is waterproof and floats. Lanyard included.

Accuracy: ±6″. **Beam Angle:** 15°. **Battery:** One 9V battery (included). **Dimensions:** 12″ x 3″ x 6″.

Fish Ray 100 – Operating Depth: 2′ to 99′.	E	2 lbs.	**90105**	**$164.95**
Fish Ray 300 – Operating Depth: 2′ to 399′.	E	1 lb.	**90106**	**$199.95**

Hondex™ Digital Depth Sounder

3394

Measure the depth of any body of water with this portable digital depth sounder.

Waterproof to a depth of 150′ (50m), this sounder features a built-in transducer and measures depths in feet or meters in a range of 1.8′ to 260′ (0.6m to 79m). The transducer sends high frequency pulses to the bottom of a body of water where these pulses are reflected back and converted to electrical pulses that are amplified and displayed on the easy-to-read LCD. The seven-digit LCD is backlit for night use. This compact depth sounder transports easily and stores conveniently – it will even slip into a shirt pocket! Powered by a 9V DC dry cell battery (included), the sounder has a battery life of approximately 500 uses and automatically shuts off after 10 seconds. Wrist lanyard included.

Minimum Depth: 1.8′ (0.6m). **Maximum Depth:** 260′ (79m). **Accuracy:** ±1%. **Frequency:** 200 KHz with a 24° beam angle. **Backlight:** Filament light. **Dimensions:** 1.7″ x 7.8″. **Weight with battery:** 10 oz.

Digital Depth Sounder w/Built-in Transducer	C	8 oz.	**90100**	**$226.50**
9V Alkaline Battery, single		3 oz.	**02179**	**$3.20**

HawkEye® Handheld Digital Depth Sounder

3648

Manufacturer's Warranty 2 Year

Provides instant depth readings from 2.5′ to 200′ in 10ths and with the flip of a switch, also gives you real time temperature (water or air) and fish readings. The algorithmic programming reduces false readings. Other features include English and metric readings, instant depth readings, an auto mode which allows remote viewing of readings, a manual mode for one touch readings, ShootThru technology for readings through ice or boat hulls, a soft glow backlit LCD display, waterproof to 200′, plus it is impact-resistant and it floats. Backed by a 2-Year Warranty from the manufacturer.

Power: 4 AA batteries. **Dimensions:** 7″H x 2″W x 2″D. **Display Size:** 0.93″W x 0.63″H. **Sonar Frequency:** 200 KHZ. **Sonar Angle:** 25°. **Waterproof Limit:** 200′. **Operating Temperature:** 14°F to 122°F (-10°C to 50°C).

HawkEye Handheld Digital Depth Sounder	C	1 lb.	**90303**	**$92.95**
AA cell Alkaline Batteries, pack of 4		7 oz.	**02352**	**$3.25**

E English C Combination English and Metric

[search engine powered by magazooms.com]

WaterMark® Fish Data Ruler
7565

Made of durable Styrene, this ruler can be written on with a pencil and then erased. Graduated in inches/tenths of inches and centimeters on both sides. **Dimensions:** 4.2″W x 39″L.

WaterMark Fish Data Ruler 4 oz.	C	77307	$15.95

Rite in the Rain ALL-WEATHER WRITING PAPER

Rite in the Rain® Fish Scale Envelopes
7566

Perfect for research and field use! These all-weather envelopes shed water and allow you to record important information regardless of the weather conditions. **Dimensions:** 2.25″ x 3.5″.

Pack of 1,000 4 lbs.		77305	$174.00

Rite in the Rain® Paper and Notebooks
pages 552 thru 559

Rite in the Rain® No. 99 Mechanical Pencil
page 556

Mark II Scissor Grip Fish Tagger
6606

Scissor grip fish tagger has a maximum insertion depth of 5/8″, and a needle is included. Floy® T-Bar Anchor Fish Tags (sold separately) work well with medium and small fish. Tags come in cartridges of 50 tags. Printing is on colored polyolefin tubing protected by clear polyolefin Shrink-Lock™ with a very small total diameter. **Tag color:** Orange.

Mark II Scissor Grip Fish Tagger	4 oz.	77317	$62.25
Replacement Regular Needle for Fish Tagger	1 oz.	77318	$13.25
Floy T-Bar Anchor Fish Tags No. 1 - 100	1 oz.	77319	$89.50
Floy T-Bar Anchor Fish Tags No. 1 - 500	3 oz.	77320	$425.50

Monofilament Bait Cast Net
5056

Constructed of 0.30 mm monofilament nylon mesh which allows the net to sink fast. Features thimble, plated swivel, monofilament draw lines with spacer, and a 20′ braided hand line. **Size:** 3/8″ mesh, 5′ radius.

Monofilament Bait Cast Net	4 lbs.	77684	$48.95

77309

77302

WATER•MARK®

The Ultimate Fish Board
5041

Quick measurements with minimal trauma to fish.

Made in USA

Durable, high density polyethylene fish measuring board provides fast, accurate fish measurements. Its smooth surface and easy-to-read scales allow for minimal trauma to the fish. Tempered Aluminum straight edge attached using rustproof fasteners measures in both English and metric measurements. A tapered backstop helps prevent specimen from sliding off during measurement. Available in 30″/75 cm and 24″/60 cm sizes with English and metric measurements. English scale has 1/8″, 1/16″, and 1/32″ divisions. Metric scale has 1 mm divisions. **Dimensions:** 30″/75 cm; 9″ x 30″ x 1-1/4″. 24″/60 cm; 9″ x 24″ x 1-1/4″.

30″/75 cm	C	6 lbs.	77309	$157.95
24″/60 cm	C	5 lbs.	77310	$152.50

Wildco® Fish Measuring Board
5040

Features three convenient scales!

For making fast and accurate fish measurements in the field or laboratory. Measuring board is acrylic plastic and features a brass bar assembly and three easy-to-read scales.

Scale No. 1: 0 to 30 inches (1/8″ per division).
Scale No. 2: 0 to 30 inches (0.1″ per division).
Scale No. 3: 0 to 75 cm (1 mm per division).

Fish Measuring Board	C	8 lbs.	77302	$264.25

C Combination English and Metric

[search engine powered by magazooms.com]

Elite Digital Lifetime Fish Combo Solar

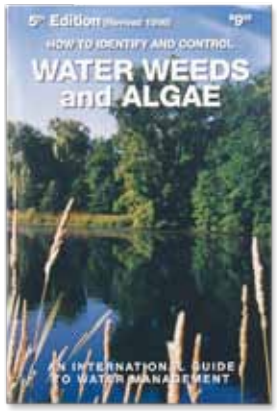
2100

Built for dependability and backed with a lifetime warranty!

Manufacturer's Warranty Lifetime

This feeder's Elite Digital Timer can be programmed to feed from one to six times a day with an adjustable feed time from 1 to 30 seconds. An agitator rod extends into the 150 lb. feed container. The feeder features an easy self-leading screen with step-by-step instructions, a 6V high torque motor with three motor speeds, and a 6V rechargeable gel cell battery. A solar wrap panel eliminates the need for external wires or separate glass panels to minimize possible damage.

Lifetime Fish Combo Solar	O	23 lbs.	**69125**	**$239.75**



How to Identify and Control Water Weeds and Algae

5085

Provides step-by-step instructions for controlling undesirable vegetative growth using aquatic herbicides and algaecides.

Created and produced by Applied Biochemists. Includes a detailed section on plant identification, recommended controls and alternatives for each troublesome species, directions for determining size of treatment area, choosing the best product(s), and calculating dosages. Includes discussion of choice and operation of application equipment and informative tips on application techniques and safety. A follow-up section assists with maintenance program development and answers post-treatment questions. Glossary included. Softcover. 128 Pages.

How to Identify and Control Water Weeds and Algae	8 oz.	**59941**	**$10.50**

EZ-20 Self-Dispensing Pond Fertilizer

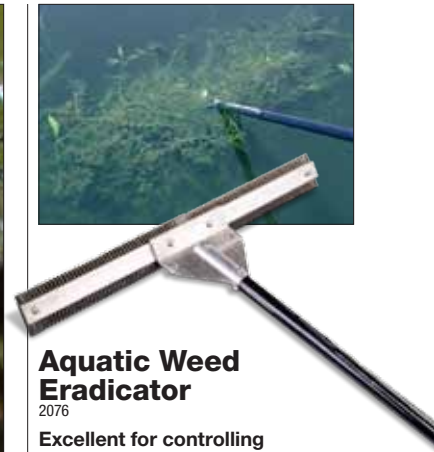
2506

18-46-0

Suspended at the surface, this self-dispensing shrimp and fish pond fertilizer mixes with the upper 3 to 4 feet of water where algae and oxygen are most plentiful. This method does not waste fertilizer or cause problems on the bottom of your pond. One bucket will fertilize a pond size of up to 5 acres per month. For maximum fish production, maintain a green color from spring to fall. Use a secchi disc to check color at 18 to 24 inches.

EZ-20 Self-Dispensing Pond Fertilizer		22 lbs.	**77791**	**$43.25**
			6+	**$41.25**
			12+	**$39.50**
WaterMark® Limnological Weighted Secchi Disc, Black/White		2 lbs.	**77912**	**$50.25**
			5+	**$47.75**

O Oversize. Ships at Oversize rate. See Shipping Information for details.



Aquatic Weed Eradicator

2076

Excellent for controlling lake weeds!

The 28˝ serrated cutting blade is reinforced ensuring the blades won't bend under a heavy load of weeds. To use, simply skim the eradicator across the water, let it sink, retrieve it in a short push-pull action, and drop the weeds off. 11´ Powder-coated aluminum handle comes in two pieces.

Aquatic Weed Eradicator 6 lbs.	X		**77779**	**$111.95**
			3+	**$104.50**

36˝ Lake Rake

2077

Use to skim floating aquatic vegetation and algae from the water with the included float attachment. The float can also be removed for submerged aquatic weeds. This 36˝ wide aluminum rake comes with a 2-piece, 11´ rust-proof powder-coated aluminum handle, detachable polyethylene float and 20´ of rope. Shorten the handle and remove the float for use as a professional-grade landscaping rake.

36˝ Lake Rake 7 lbs.	X		**77773**	**$103.50**
			3+	**$98.75**

Secchi Discs pages 374 and 375

X Items 60˝ or more require an additional handling charge.

[search engine powered by magazooms.com]

Refuge™ Herbicide
4727

52.3% Glyphosate: N-(phosphonomethyl) glycine, in the form of monopotassium salt

Concentrated to go 33% further, Refuge is a water soluble liquid that readily mixes with water and non-ionic surfactant to be applied as a foliar spray for the control or destruction of many herbaceous and woody plants. Refuge controls more then 170 grasses, weeds and unwanted brush. For use on emerged plants. **Active Ingredient:** 52.3% Glyphosate: N-(phosphonomethyl) glycine, in the form of monopotassium salt.

Refuge Herbicide, 2-1/2 gal. 30 lbs.	R5	17156	$108.25

Clipper® Aquatic Herbicide
4726

51% Flumioxazin

This water dispersible granule herbicide delivers fast and selective control of algae and tough invasive and nuisance plants such as cabomba, watermeal, Eurasian watermilfoil, water lettuce, duckweed, giant salvinia and more. Dissipates quickly from the water column and does not accumulate in sediment, plus it offers reduced PPE requirements for easier application and handling. **Active Ingredient:** 51% Flumioxazin.

Clipper Aquatic Herbicide, 1 lb. 1 lb.	R5	17155	$212.25

SePRO Sonar RTU Aquatic Weed Herbicide
7743

5% Fluridone

This ready-to-use formulation controls a variety of troublesome aquatic weeds (including duckweed) for a year or longer and is easy to apply. Simply pour Sonar RTU directly into the water from the shoreline – no mixing or spray equipment needed! You can can treat an entire pond in just minutes. Sonar RTU contains 5% fluridone and stops photosynthesis, thereby robbing target plants of their ability to make food. Controls bladderwort, coontail, duckweed, egeria, elodea, fanwort, hydrilla, naiads, para grass, spatterdock, most watermilfoils, water lily, and most pond weeds. The herbicide has no restrictions for swimming, fishing, boating, or livestock use, even immediately after application. One quart treats 1/8 acre. Apply half of the total dose on day 1, one-fourth of the total dose on day 21, and the remainder on day 42.

1-Quart Bottle 2 lbs.	R21	17151	$120.95
		4+	$114.25

Aquathol® Super K Granular Aquatic Herbicide
6939

63.0% Dipotassium Salt of Endothall

Highly effective on submerged weeds, this granular herbicide dissipates quickly, leaves no residue, and does not bioaccumulate in fish or hydrosoil. When used as directed, Aquathol Super K will not harm fish, birds, other aquatic life, or the environment. Works well in quiescent or slow-moving water. Effective for spot or marginal treatments, as well as treatment of large areas of lakes or ponds. Apply as soon as possible once weeds are present. Recommended for the control of bass weed, bur reed, coontail, hydrilla, hygrophila, milfoil, pondweed (bushy, curly-leaf, flat-stem, floating-leaf, horned, and sago), and water star grass. Do not use treated water for irrigation or agricultural sprays on food or for domestic purposes within 7 days of treatment. Do not use fish from treated areas for food or feed within 3 days of treatment. **Application rate:** lbs. Aquathol per acre = surface acres treated x average depth treated in ft. x 4.4 lbs. x rate desired.

10 lbs. 12 lbs.	A R5	77390	$285.00

Cygnet BioBlend II WSP
6941

Actually improves water quality!

Ideal for use in a variety of aqua-environments including ponds, lakes, lagoons, and fish and shrimp hatcheries, BioBlend II WSP's formulation of beneficial pond bacteria naturally removes excess ammonia-causing and nitrite-causing wastes from water. In addition, it also removes problem-causing nitrates and phosphates as well as decaying organic wastes such as grass clippings, leaves, excess fertilizer runoff, dead plants, and animal wastes. This formulation improves water quality by also eliminating murky water, odors, and bottom sludge caused by organic waste buildup. Each 10 lb. container contains 20 one-half pound, pre-measured, water-soluble packets for easy application. Apply BioBlend around the water's edge when water temperatures are above 55°F. An initial dose consists of 8 lbs. (16 packets) per surface acre of water, and maintenance doses should be administered at a rate of 4 lbs. (8 packets) per surface acre of water as needed. Wait 48 hours after the use of a pesticide before applying BioBlend.

Cygnet BioBlend II WSP, 10 lb. Container 12 lbs.	R8	77395	$192.00

GreenClean® Granular Algaecide
7996

Non-toxic to goldfish, koi, and trout!

Safe for use in water features containing live fish and plants! Also removes algae from roofs, walkways, decks, fountains, and other non-painted surfaces. Effective over a wide range of pH conditions, this algaecide reduces organic build-up and noxious odors including hydrogen sulfide. As the active ingredient breaks down, it releases vital oxygen into the water. For heavy algae growth, use 3 to 16 tablespoons per 1,000 gallons of water. For low algae growth/maintenance, use 1 to 5 teaspoons per 1,000 gallons of water.

GreenClean Granular Algaecide, 20 lb. Pail	R21 21 lbs.	77362	$99.75

R5 Restricted. Cannot be sold in CA, CT, HI, MA, NJ, NY, VT, WA.
R8 Restricted. Cannot be sold in CA, MA, NJ, NY, VT, WA.

Black Onyx™ Lake and Pond Colorant
8004

A high-concentrate lake and pond colorant that transforms pale, off-colored water to a decorative, mirror-like black color without harming or discoloring fish, waterfowl and animals. Great for golf courses, commercial aquascapes, ornamental lakes and ponds, and water gardens. For large bodies of water, apply 32-64 oz. per surface-acre of water 4′ deep. For other water features, apply 2 oz. per 20,000 gallons of water. Black Onyx should be applied near the shoreline at various locations around the lake or pond to achieve the best coverage.

1 Gallon Jug	10 lbs.	77374	$87.75
		4+	$82.95

A Extra Charge if Shipped by Air. See Shipping Information for details.
R21 Restricted. Cannot be sold in CA, CT, ME, MA, NJ, NY, RI, VT, WA.

[search engine powered by magazooms.com]

Rodeo® Broad Spectrum Aquatic Herbicide
5082

53.8% Isopropylamine Salt of Glyphosate

Controls more than 90 kinds of grasses, brush, and broadleaf weeds! Safe to use around fresh or brackish water including ponds, lakes, seeps, irrigation and drainage ditches, canals, and reservoirs (do not apply within 1/2 mile of potable water intake). After application, there is no restriction on use of water for irrigation, recreational or domestic purposes. Non-volatile, practically non-toxic to animals, does not bioaccumulate in food chain, and produces no residual soil activity. Apply to plants when they are actively growing. Active ingredient is 53.8% isopropylamine salt of glyphosate.

2-1/2 Gallons 26 lbs.	R8	17110	$86.95

Reward® Landscape and Aquatic Herbicide
2577

37.3% Diquat Dibromide

This broad spectrum, non-selective herbicide manages weed problems in aquatic, grounds maintenance and landscaping areas without causing concern over non-target vegetation, fish and wildlife - and, results are seen in just 24 hours! In grounds maintenance areas, Reward controls a wide variety of tough broadleaf and grass weeds, and in aquatic areas, it controls Bladderwort, Coontail, Elodea, Naiad, Pondweeds, Watermilfoils, Hydrilla, Water-lettuce, Water-hyacinth, Pennywort, Frog's Bit, Salvinia, Duckweed, Cattails, and Algae. Active ingredient is 37.3% Diquat Dibromide.

1-Gallon 11 lbs.	A	R6	17104	$137.95
			2+	$130.95

Labels and MSDS available at forestry-suppliers.com MSDS

Renovate® 3 Herbicide
2576

44.4% Triclopyr

Effective on submersed, emersed and floating aquatic plants and wetland species in aquatic sites which have little or no continuous outflow including broadleaf and woody vegetation on banks and shores. A selective broadleaf herbicide, Renovate is used to control a variety of nuisance and invasive plant species such as Eurasian Watermilfoil, Purple Loosestrife, Water Hyacinth, and Alligator Weed. While controlling unwanted exotics, it allows many native monocots, and less susceptible dicots, to thrive following treatment, therefore making it ideal for restoring wetlands and for aquatic ecosystem management. Renovate carries no restrictions on recreational use such as swimming and fishing, or on livestock consumption of water from the treatment area.

2-1/2 Gallon 25 lbs.	R8	17103	$357.00
		2+	$335.00

Renovate® OTF Aquatic Herbicide
7997

14.0% Triclopyr

This selective broadleaf herbicide controls a variety of nuisance and invasive aquatic plant species such as Alligator Weed, American Lotus, Bladderwort, Creeping Water Primrose, Eurasian Watermilfoil, Parrotfeather, Pickerelweed, Smartweed, Variable-Leaf Watermilfoil, Water Chestnut, Water Shield, White Water Lily, and Yellow Water Lily. The dust-free, odorless, granular formulation allows for more precise application with less chance for drift and dilution. Effectively controls unwanted exotics but allows many native monocots and less susceptible dicots to thrive. Effective at any water depth, herbicide removes unwanted weeds for one year or longer. Apply 2.5 to 5 pounds per 1,000 square feet, using the higher rate where more weeds are present.

40 lb. Bag 41 lb.	R21	17116	$240.50

Aquashade® Colorant
5081

Aquatic Plant Growth Control

Add to your pond, fountain, etc. to control algae and other unwanted vegetation by screening out light required for growth. Completely non-toxic, EPA registered. When properly applied, will not harm fish, wildlife, dairy cattle, turf, water lilies, or ornamental aquatic plants. Will not discolor painted surfaces. In large ponds, use one gallon of Aquashade per acre of water with 4 foot average depth (approximately 1.3 million gallons). Stays in the entire body of water depending on water flow and light penetration. Apply twice during growing season of amount necessary to maintain color. For best results, treat water with Cutrine®-Plus prior to applying Aquashade. At the same time, turn the water into a beautiful shade of aqua-blue!

1-Gallon Jug	R8	9 lbs.	77376	$56.75
			4+	$52.50

Cutrine®-Plus Algaecide/Herbicide
1910

Continues to control algae after application.

Contains chelated copper. Continues controlling algae well after application. Great for lakes, potable water reservoirs, ponds, etc. Treated waters may be used immediately for swimming, fishing, livestock watering or irrigation.

1-Gallon Jug	A R8	11 lbs.	77820	$37.50
			4+	$34.50

Cutrine®-Plus Granular

Convenient, ready-to-use granular formula. Apply directly over infested area at the rate of 1 lb. per 720 square feet. Heavy growth may require re-treatment.

12 lb. Jar	R8	13 lbs.	77818	$45.50
			4+	$42.25
30 lb. Bag	R8	30 lbs.	77819	$98.95
			2+	$89.25

Note: Apply early in the day under calm conditions when water temperature is 60°F or higher.

Cutrine®-Plus Application Rates (Gallons Per Surface Acre)

Algae Type	PPM Copper	Depth in Feet 1	2	3	4
Planktonic	0.2	0.6	1.2	1.8	2.4
Filamentous	0.2	0.6	1.2	1.8	2.4
Chara/Nitella	0.4	1.2	2.4	3.6	4.8

Caution! Cutrine-Plus can be toxic to trout, at the recommended application rates, if the water has less than 50 ppm of carbonate hardness (soft water).
*Do not use in waters containing Koi and hybrid goldfish.
Not intended for use in small volume, garden pond systems.

A Extra Charge if Shipped by Air. See Shipping Information for details.
R6 Restricted. Cannot be sold in CA, CT, MA, NH, NJ, NY, VT, WA.
R8 Restricted. Cannot be sold in CA, MA, NJ, NY, VT, WA.
R21 Restricted. Cannot be sold in CA, CT, ME, MA, NJ, NY, RI, VT, WA.

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Cypress Wood Duck Nesting Box
5106

Hand-constructed from cypress wood, this high quality box has smooth sanded edges and will last for years. Also features side access doors with solid brass hinges to simplify inspection and cleaning. Predrilled for quick mounting. **Dimensions:** 24″ x 11″ x 12″ with 4″ wide oval entrance.

Wood Duck Box	O	12 lbs.	**35938**	**$55.95**
			10+	**$52.25**

Cypress Mallard Nesting Box
5107

Can be placed on a metal fence post or log over water, or on the shore above ground or on the ground if predators are not a problem. When placed on the shore, cover the box with vegetation from the surrounding area to provide a more natural setting and concealment. Comes complete with predator guard. Measures 11-1/4″ x 20″ x 13″.

Cypress Mallard Nesting Box		11 lbs.	**35941**	**$47.75**
			5+	**$44.25**

Predator Guards
8214

Prevents snakes, raccoons, and other predators from raiding bird boxes. Available in two sizes, the 22″ diameter guard is designed for a 4″ x 4″ pole mount and the 18″ diameter guard is a wraparound pole mount designed for poles from 1/2″ to 1-3/8″. Made of powder-coated steel.

22″ Predator Guard, for a 4″ x 4″ pole mount		4 lbs.	**35867**	**$44.95**
			4+	**$39.95**
18″ Wraparound Pole Mount Predator Guard		3 lbs.	**35890**	**$22.95**
			6+	**$21.25**

Cypress Blue Bird Nesting Box
5106

Hand-constructed from cypress wood, this high quality box has smooth sanded edges and will last for years. Predrilled for quick mounting. **Dimensions:** 10-3/4″ x 5″ x 5″ with 1-1/2″ diameter entrance.

Blue Bird Box		2 lbs.	**35937**	**$13.50**
			10+	**$12.50**

Heath Outdoor Products® Deluxe Bluebird House
8608

Constructed of heavy-duty cedar for outstanding weather resistance, the side of this house tilts open for easy inspection and cleaning. The house features a 1.5″ entrance hole. Mount the house 5 to 6 feet above the ground. Space houses 200 feet apart to prevent territorial conflict. **Dimensions:** 10.25″L x 12.5″W x 10″H.

Deluxe Bluebird House		3 lbs.	**35993**	**$21.95**
			10+	**$19.95**
			20+	**$18.95**

Cypress Bat Box
5105

Attract bats to your area with these sturdy cypress bat boxes!

One bat alone can consume one-half or more of its body weight in flying insects every night (approximately 3,000 insects). Available in single- and double-section sizes, boxes are well constructed and built to survive the outdoors. Each has plastic roosting grids for bats to anchor to. Hang approximately 12′ to 15′ above the ground during the fall, winter, or early spring. In warm climates, mount boxes in the shade to increase chances of housing bats. Once installed, bat occupancy may take up to two years. **Dimensions:** 14″L x 9″W x 5.5″ deep at top x 2.25″ deep at bottom.

Single-section Bat Box		3 lbs.	**35939**	**$27.50**
			5+	**$25.25**
Double-section Bat Box		5 lbs.	**35940**	**$37.25**
			5+	**$33.75**

"Rite in the Rain"® Birder's Field Book
pages 423 and 557

The National Audubon Society Field Guides
page 735

O Oversize. Ships at Oversize rate. See Shipping Information for details.

[search engine powered by magazooms.com]

Austbat Three-Bank Harp Style Bat Traps
4627

Effective, reliable and easy to assemble! Design refinements over the past 25 years ensure excellent capture success combined with low escape rates for these harp-style bat traps. Using 3 banks of monofilaments, the bats' flight is impeded when they fly into the monofilaments causing them to fall to the bottom of the catching bag. The bats then crawl up the side of the bag, in between the cloth and the internal plastic lining to the uppermost region, where they settle in to sleep until "rescued." Constructed from selected high quality materials, these traps are lightweight, corrosion-resistant and durable. Traps are supplied fully strung, tension tested and complete with guy ropes. A comprehensive assembly and maintenance manual is included.

Austbat Three-Bank Mini Harp Trap, 1 m2	O	34 lbs.	**35593**	**$2743.50**
Austbat Three-Bank Harp Trap, 4.2 m2	X	33 lbs.	**35594**	**$2995.00**
Monofilament String Kit		9 oz.	**35591**	**$89.95**

Wingscapes® BirdCam Pro® Digital Wildlife Camera
4838

Incredibly simple to set up and operate, this motion-activated 8 megapixel digital camera captures crystal-clear photos and videos. Features include a time lapse setting, an adjustable flash for nighttime use, and a 2″ color preview screen for easy menu navigation and convenient review of images. Smart Sensor technology minimizes the number of "empty" frames so that you don't needlessly sort through blank images. Photos and videos are recorded to an SD memory card (up to 32 GB memory, not included). Use the included mounting strap to attach the camera to a tree. The weather-resistant, lockable housing also features a threaded tripod mount that attaches to any standard tripod or the optional Mounting Arm (sold separately).

Format: Still pictures, JPEG (Low, 640 x 480; Wide HD, 1920 x 1080; High, 2592 x 1944; Max, 3264 x 2448); Video, AVI (640 x 480 at 30 fps). **Video Length:** 10, 20, 30 seconds (Night, 10 seconds). **SD Memory Card:** Up to 32 GB SD card (not included). **Focus:** 6″ to infinity. **Flash Type:** 24 LEDs. **Flash Range:** 5′ to 60′. **Power:** Six C cell alkaline batteries (not included). **External Power Port:** 12V. **Dimensions:** 6.9″ x 5.4″ x 2.8″.

Wingscapes BirdCam Pro Digital Wildlife Camera	1 lb.	**91582**	**$197.95**
Solar Power Panel	3 lbs.	**91546**	**$70.25**
8.0 GB SD High Capacity Card	1 oz.	**02516**	**$15.50**
Mounting Arm	2 lbs.	**91544**	**$14.95**
AC Power Adapter - Features a 6′ cord. For indoor use only.	6 oz.	**91545**	**$15.25**
C cell Alkaline Battery, single	3 oz.	**02181**	**$1.85**

Heath Outdoor Products® Purple Martin House
8607

Made in USA

Create a welcoming environment for purple martins with this classically designed house! Constructed of lightweight, tough aluminum, the 12-room house features a hexagonal design that is both functional and attractive. The house is easy to clean and comes with door stops and protective rails. Mounting pole sold separately. Made in USA.

Purple Martin House	8 lbs.	**35997**	**$72.50**

Martin House Pole

Three-section 15′ heavy-duty galvanized steel telescopic pole can be easily raised or lowered and locked into position at the desired height. **Pole Diameter:** Bottom, 1.5″; Middle, 1.375″; Top, 1.25″.

Martin House Pole	12 lbs.	**35999**	**$50.50**

O Oversize. Ships UPS 30 lb. rate.
X Oversize. Ships UPS 70 lb. rate.

Binoculars
pages 418 thru 423

Birdsong IdentiFlyer™ Lyric
2291

Providing a fast, simple approach to identifying bird songs, the IdentiFlyer Lyric lets you hear the bird's name, a verbal description of the song (lyrics), and the song itself. The "Learning Lyrics" utilize memorable words and phrases that help you connect a particular tune to the corresponding bird. Two double-sided Super SongCards are included (10 birds on each side), offering a total of 40 bird songs. Pictures of the birds on the cards also help in identification. The speaker provides rich, crystal-clear sound, and a kick stand allows for easy setup. Includes two Super SongCards (Yard Birds One & Two and Eastern & Western Yard Birds) and 3 AAA batteries. Additional Super SongCards sold separately.

IdentiFlyer Lyric	10 oz.	**33425**	**$36.50**
2 Super SongCard Set Includes Raptors One & Two (Owls/Hawks), Woodpeckers, and Fabulous Frogs.	1 oz.	**33426**	**$19.95**
3 Super SongCard Set Includes Forest Birds, Field & Meadow Birds, Forest Edge Birds, Birds of the Night, Birds of Lakes & Rivers, and Marsh & Wetlands Birds.	2 oz.	**33427**	**$29.95**
IdentiFlyer Lyric Carrying Case	3 oz.	**33428**	**$13.95**

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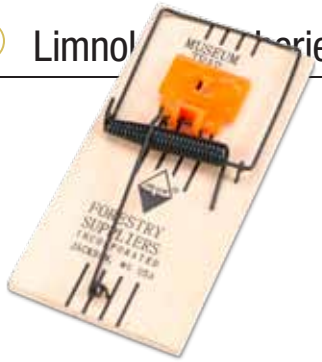

Forestry Suppliers Museum Trap
5128

For field surveys and mammalogy studies. Proven effective in years of trapping. 5-1/2″ x 2-3/4″.

Forestry Suppliers Museum Trap 2 oz.	**35815**	**$6.95**
	50+	**$5.95**
	100+	**$4.95**

Victor® Rat Glue Traps
5130

No baiting or setting!

Peanut butter scent lures rats to trap. The 38 square-inch glue surface catches them. Disposable and non-poisonous. Pack of two traps.

Victor Rat Glue Traps 4 oz.	**35794**	**$3.95**
	12+	**$3.45**

Victor® Mouse & Rat Traps
5127

Victor® Mouse Trap

Complete with metal bait pedal. For catching and killing mice and other small rodents.

Victor Mouse Trap 1 oz.	**35825**	**$0.85**
	72+	**$0.75**

Victor® Easy Set® Rat Trap

This pre-baited trap features a large, scented plastic "Swiss cheese" trip pedal that is easily activated to ensure maximum trapping of rats.

Victor Easy Set Rat Trap 6 oz.	**35828**	**$2.30**
	12+	**$2.10**
	48+	**$1.95**

36002

The Gopher Tool
6619

More efficient than trapping, hand-set baiting, or gassing.

The Gopher Tool targets gophers in the tunnels where they live. Inject the poison bait (sold separately) directly into tunnels using the hand-held pointed probe with steel shaft. Turning the crank arm of the built-in bait reservoir deposits gopher bait with precision. RCO Omega Gopher Grain Bait contains 0.5% strychnine which is incorporated onto each grain kernel with oils for uniform saturation. Flavor enhancers readily motivate gophers to consume the bait. The bait's two flavors work in tandem to effectively compete against the gophers' preferred readily available food. One pound of bait treats one to eight acres depending on density of gophers. **Caution:** Bait is poisonous if swallowed. Do not breathe dust. Keep bait away from areas where bait might be mistaken for untreated grain. This product is toxic to fish, birds, and other wildlife. Do not allow treated bait to be exposed above the ground. Keep out of lakes, streams, and ponds.

The Gopher Tool		2 lbs.	**35962**	**$29.50**
RCO Omega Gopher Grain Bait	R4	5 lbs.	**36002**	**$40.25**
			6+	**$38.75**

Animal Skulls
page 442

Peterson Field Guides
page 735

Sherman Aluminum Non-Folding Live Capture Traps
5133

Particularly effective when used in a permanent location.

Operates same as folding traps. 0.025″ Thick all-aluminum, stainless steel springs and wires.

3″ x 3″ x 10″ 7 oz.	**35824**	**$25.25**
	10+	**$23.95**

Sherman Aluminum Folding Live Capture Traps
5132

Designed to capture small mammals live.

Pops open to instantly set; folds flat to 1/2″ for storage or carrying in the field. Operate quickly and harmlessly. Spring-powered trap door folds down to inside floor and is held by treadle latch. When the mammal is attracted inside by the bait, it eventually steps on the treadle, releasing treadle latch and allowing the trap door to snap shut. Available in solid and ventilated models.

Size	Type	Special Features	Dimensions Set	Dimensions Folded	Gauge 0.020″	Gauge 0.025″	Weight	$	5+
Small	Solid		2″ x 2-1/2″ x 6-1/2″	2-1/4″ x 1/2″ x 6-1/2″	**35841**		3 oz.	**$22.25**	**$21.25**
Large	Solid		3″ x 3-1/2″ x 9″	3-1/4″ x 1/2″ x 9″	**35821**		6 oz.	**$25.25**	**$24.25**
	Solid	galvanized steel doors & treadle	3″ x 3-1/2″ x 9″	3-1/4″ x 1/2″ x 9″	**35822**		7 oz.	**$25.50**	**$24.50**
	Solid		3″ x 3-3/4″ x 9″	3-1/4″ x 1/2″ x 9″		**35823**	7 oz.	**$26.95**	**$25.75**
	Ventilated		3″ x 3-1/2″ x 9″	3-1/4″ x 1/2″ x 9″	**35949**		7 oz.	**$26.95**	**$25.50**
	Ventilated	galvanized steel doors & treadle	3″ x 3-1/2″ x 9″	3-1/4″ x 1/2″ x 9″	**35950**		8 oz.	**$27.25**	**$26.25**
	Ventilated		3″ x 3-1/2″ x 9″	3-1/4″ x 1/2″ x 9″		**35951**	7 oz.	**$28.50**	**$27.25**
Extra-Long Large	Solid		3″ x 3-3/4″ x 12″	3-1/4″ x 1/2″ x 12″		**35836**	10 oz.	**$34.50**	**$32.95**
	Ventilated		3″ x 3-3/4″ x 12″	3-1/4″ x 1/2″ x 12″		**35952**	10 oz.	**$35.95**	**$34.50**
Extra Large	Solid	galvanized steel doors & treadle	4″ x 4-1/2″ x 15″	4-1/4″ x 3/4″ x 15″		**35842**	1 lb.	**$45.25**	**$43.25**

R4 Restricted. Cannot be sold in CA, CT, MA, NV, OK, VT, WA.

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Sol Mate® Solar Mole & Gopher Chaser
3909

Solar-powered and maintenance-free!

Producing a sonic pulse of approximately 400 Hz every 30 seconds, this solar-powered device repels moles, gophers, voles, shrews, and other burrowing rodents. Other animals are not affected by the noise, but rodents find the noise irritating and leave the area. A full battery charge yields up to five days of power, allowing for operation without interruption even during unfavorable weather. The solar panel is embedded in a watertight housing that features an attractive mow-over design. One device covers an area up to 7,500 square feet (1/6 acre).

Battery: AAA NiMH 600 mAh (included). **Battery Life:** up to five days without recharge. **Dimensions:** 2-5/8″x 11-3/8″. **Weight:** 4 oz.

Sol Mate Solar Mole & Gopher Chaser			
5 oz.	**36043**	**$17.95**	

Sonic Molechaser®
3909

An alternative to poisons and traps, the Molechaser effectively targets moles, voles, shrews, gophers, and other destructive ground rodents. The device emits an underground sonic pulse of 300 Hz at 15 second intervals and covers up to 11,250 square feet (1/4 acre). Rodents find the noise irritating and leave the area, but pets are not affected by the sound. The Molechaser is constructed from a single billet of aluminum and features a watertight control head that can be buried flush with the ground for easy mowing. The batteries can be changed without removing the device from the soil. Lifetime warranty from the manufacturer.

Batteries: 4 D alkaline batteries (not included). **Battery Life:** 4 to 6 months. **Dimensions:** 16″x 2″. **Weight:** 11.5 oz.

Sonic Molechaser			
14 oz.	**36044**	**$27.95**	

Super Sonic Molechaser®
3909

This versatile device features two operation modes to effectively drive away burrowing rodents and prevent them from returning! The Super Sonic Molechaser produces an underground sonic pulse of 300 Hz and covers up to 11,250 square feet (1/4 acre). When the device is first buried in the ground, the super sonic mode emits a powerful signal that is perfect for combating heavy mole infestations. Rodents find the noise irritating and move to a quieter location, but pets are not impacted by the sound. Once the rodents begin relocating, the device can be switched to long life mode which extends battery life while still providing protection. The Super Sonic Molechaser is constructed from a single billet of aluminum and features a watertight control head that can be buried flush with the ground. The unit can remain in the ground during mowing and battery replacement. Lifetime warranty from the manufacturer.

Batteries: 4 D alkaline batteries (not included). **Battery Life:** Super Sonic Mode, up to 6 months; Long Life Mode, up to 12 months. **Dimensions:** 16″x 1-3/4″. **Weight:** 9 oz.

Super Sonic Molechaser			
14 oz.	**36045**	**$39.95**	

Vibrasonic Molechaser®
3909

Using a combination of sound and powerful vibrations, this state-of-the-art device is effective against moles, voles, shrews, gophers, and other destructive burrowing rodents. The Vibrasonic Molechaser produces an underground multi-modal sonic pulse that covers up to 13,500 square feet (1/3 acre). A patented motor drive generates vibrations that are irritating to rodents but harmless to pets and humans. The rodents leave the area to escape the sonic pulses radiating through the soil. Constructed from a single billet of aluminum, the device features a watertight control head that can be buried flush with the ground. Mowing and battery replacement can be done without removing the unit from the ground. Lifetime warranty from the manufacturer.

Batteries: 4 D alkaline batteries (not included). **Battery Life:** 4 to 6 months. **Dimensions:** 16″x 2″. **Weight:** 14 oz.

Vibrasonic Molechaser			
1 lb.	**36046**	**$32.95**	

Victor® Mole Trap
5111

An effective plunger-type trap with a six-prong spear. Finished with a rust-resistant coating. Equipped with safety release pin.

Victor Mole Trap	▲	2 lbs.	**35808**	**$16.50**
		6+		**$14.95**

No-Mol Mole Trap
4447

Completely safe, these traps sit right in the mole tunnel, completely below ground. Easy to set, they are great for catching moles, shrews, and even voles! Set them back-to-back for capturing animals moving in both directions. Each box contains 4 traps, 4 wooden stakes and directions for setting.

Mole Trap	▲	11 oz.	**35804**	**$23.95**

Victor® Gopher Trap
5131

This sturdy quick-action trap is the same one used by U.S. Government agencies in pocket gopher control. Fits gopher holes snugly with no digging. 4″ Long.

Victor Gopher Trap	▲	3 oz.	**35809**	**$6.70**
		12+		**$5.65**

▲ **Note:** The use of certain traps is restricted in some states. Check with your local game office to determine which traps can be used in your area.

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3-D Coyote Goose Repeller
8603

Ideal for use on golf courses, in city parks, and anywhere else nuisance geese are present.

An effective, humane, chemical-free deterrent against geese, ducks, rabbits, skunks, and rodents! The life-sized 3-D coyote decoy features true-to-life markings, a furry tail, and a predatory posture for maximum effectiveness. Unlike stationary deterrents, the decoy moves in even the slightest breeze and creates a danger zone where problem birds and animals will not want to linger. Superior to flat silhouette cutouts, the 3-D coyote decoy provides 360° coverage and is visible from any angle. Constructed of water- and weather-resistant EVA resin, the decoy sets up in seconds and folds for easy storage. Coyote decoy, three-part stake, and instructions included. **Dimensions:** 37″ head to tail, 8″ at widest point of body, 16″ tall (based on stake placement).

3-D Coyote Goose Repeller			
3 lbs.		**35955**	**$57.75**
		4+	**$52.50**

BIRD STOP Repellent
1628

Environmentally safe, it is made from a bitter, smelly part of concord grapes (active ingredient: methyl anthranilate) which serves as a taste aversion agent leaving treated food sources unpalatable and inedible for geese, ducks, and waterfowl. For initial and repeat applications, dilute one gallon of concentrate with water to treat up to one acre. Spray onto dry grass. Reapply every 7-14 days or after mowing.

One Gallon Jug			
9 lbs.	B16	**17068**	**$102.50**
		4+	**$92.25**

B16 Cannot be sold in CA, CO

Ultrason X®
2993

Drives birds away using ultrasonic sound waves!

The Ultrason X is the first ultrasonic repeller designed especially for outdoor, year-round use. Utilizing ultrasonic waves that cannot be heard by humans, the Ultrason X transmits non-species-specific sounds which annoy birds and make them leave the area. Four directional speakers provide powerful surround sound, and the system is programmable with high, medium, and low frequencies. The Ultrason X effectively keeps pest birds and small animals away from medium-sized outdoor areas up to 3,600 square feet. Includes control unit, four speakers with cords, 100 feet of wire per speaker, AC adapter with cord, DC battery cables, and instructions. Made in USA.

Sound Pressure: 95 to 102 dB (each speaker) at 1 meter. **Frequency:** 15 to 25 kHz. **Power Requirements:** 110vAC. **Dimensions:** Control Unit, 9″ x 9″ x 5″; Speakers, 4″ x 4″ x 6″.

Ultrason X	8 lbs.	**35984**	**$661.50**

Bird-X Super Quad Blaster
7198

The ultimate bird deterrent!

This system uses a combination of ultrasonic sound and an automated strobe light to drive even the most stubborn birds away! Four speakers emit high frequency sound waves and audio signals that are audible to birds but not audible to humans. The intense sounds along with the flashing of the strobe light confuse, disorient, and intimidate birds to make them quickly leave the area. The system provides continuous 360° coverage for an area up to 6,500 ft².

Sound Pressure (ultrasonic): 112 db @ 1 meter @ 22 kHz (per speaker). **Frequency (ultrasonic):** 22 to 30 kHz. **Power:** 115vAC/60 Hz. **Dimensions:** Control unit, 12″ x 12″ x 4″; Speakers, 4″ x 4″ x 6″.

Bird-X Super Quad Blaster	7 lbs.	**79207**	**$569.25**
		2+	**$538.50**

Bird-X GooseBuster®
7948

GooseBuster effectively drives away Canada geese by broadcasting the actual alert and alarm calls of the geese recorded in the wild. Geese recognize the menacing calls and respond instinctively by leaving the area. Because the sound combinations, sequences, and speaker selection change randomly, geese perceive the presence of many birds in several locations, increasing the sense of danger. Once geese are scared away from a particular area, they rarely return. GooseBuster can also be used against other types of geese, ducks, coots, gulls, herons, egrets, and cormorants. One unit covers 5 to 7 acres, and two units cover 15 to 21 acres. Includes control unit, four speakers with 100′ cords, mounting hardware, timer, and instructions. Made in USA.

GooseBuster, 110V AC

110V AC model utilizes an AC power adapter.

Sound Pressure: 0 to 110 dB @ 1 meter (per speaker). **Frequency:** 500 to 1,500 Hz. **Dimensions:** Control Unit, 9″ x 9″ x 5.25″; Speakers, 10″ x 8″ x 5″.

GooseBuster, 110V AC Model	19 lbs.	**79203**	**$839.50**

GooseBuster, 12V DC

12V DC model includes battery cables for attachment to a 12V battery and a solar power panel to recharge the 12V battery (battery not included).

Sound Pressure: 0 to 110 dB @ 1 meter (per speaker). **Frequency:** 500 to 1,500 Hz. **Dimensions:** Control Unit, 9″ x 9″ x 5.25″; Speakers, 10″ x 8″ x 5″.

GooseBuster, 12V DC Model	28 lbs.	**79204**	**$1100.00**

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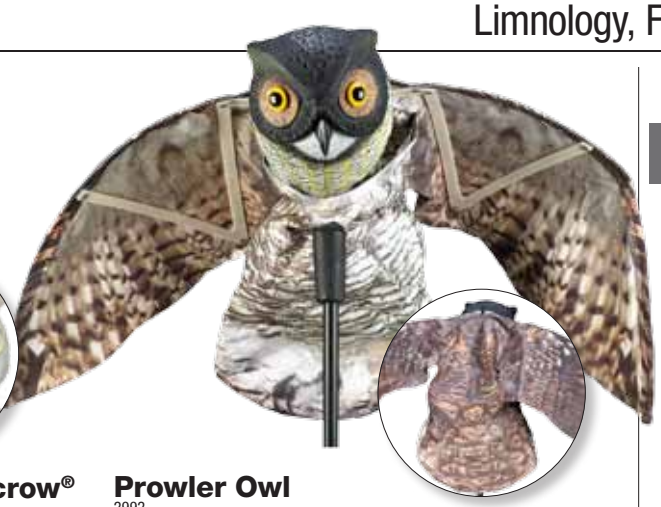


Dalen Natural Enemy Scarecrow® Rotating-Head Owl™

5093

The rotating head of this scarecrow bobs and turns freely in the breeze. This hand-painted scarecrow's incredible realism provides effective protection against birds and other pests. Constructed of heavy-duty molded plastic. Measures 18″ tall.

Natural Enemy Rotating-Head Owl Scarecrow	2 lbs.	**35970**	**$23.50**
		4+	**$21.75**

Prowler Owl

2992

Effectively targets nuisance birds and small animals!

The incredibly lifelike Prowler Owl combines flexible wings that move in the wind, intimidating eyes, realistic plumage markings, and a hunting flight pose to scare away pests. This life-size decoy is ideal for use against both birds (pigeons, geese, crows, etc.) and small animals (skunks, rodents, rabbits, squirrels, etc.). Effective where visible for up to 6,000 square feet. Head is made of hard plastic resin. Body and wings are made of waterproof non-woven fabric supported by flexible cables and riveted plastic struts. To use, place the neck opening on a 1/2″ diameter pole (not included) or suspend using fishing line. **Dimensions:** 44″ wingspan, 23″ total head to tail, 6″ head diameter.

Prowler Owl	1 lb.	**35979**	**$55.25**

Pied Piper Pigeon Trap
page 400

Gardeneer Bird-X® Protective Netting for Fruit

5095

Safe, yet effective against pests.

Protects fruit trees, berry bushes, and vegetables from thieving birds and other garden pests. The 3/4″ mesh provides total protection without harming birds and other small animals.

14′ x 75′ Roll 2 lbs.		**25468**	**$33.50**
		6+	**$29.50**

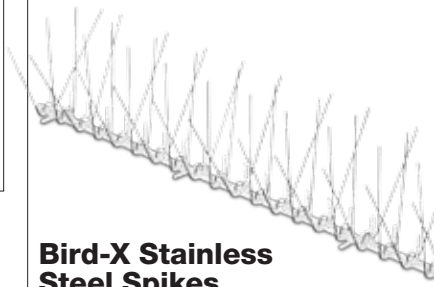
Bird-Proof Liquid Spray

5091

Transparent, non-toxic and non-lethal.

Keeps birds away from trees, bushes, shrubbery, and most broad surface areas. This environmentally safe liquid spray works in any weather, on almost any surface. Can be applied with either a power sprayer or a hand sprayer with a discharge pressure of more than 40 psi. For Pigeons, House Sparrows, Starlings, Sea Gulls, Blackbirds, and Crows. One gallon covers up to 120 square feet of surface or an average tree with a five inch diameter trunk. A thorough application protects for one year or longer.

Bird-Proof Liquid Spray	8 lbs.	**79238**	**$43.75**
		4+	**$41.25**



Bird-X Stainless Steel Spikes

5092

Deters birds from roosting and nesting.

Controls a wide variety of architectural bird problems caused by pigeons and larger birds. Long stainless steel rods protrude upwards and outwards to deter pigeons and larger birds from roosting and nesting on light to medium pressure ledges, I-beams, overhangs, pipes, signs, edges of roofs, chimneys, etc. Spaced 1-1/2″ apart, the rods are not sharp and do not gather debris and nesting materials. Install the durable plastic base by simply attaching the base to your ledge with an adhesive (not included). Base also features pre-drilled holes for using screws or nails instead of glue.

10′ Kit, includes ten needle strips measuring 12″L x 4.5″W x 4.5″H 2 lbs.		**79250**	**$43.25**
		4+	**$40.95**
		10+	**$37.75**

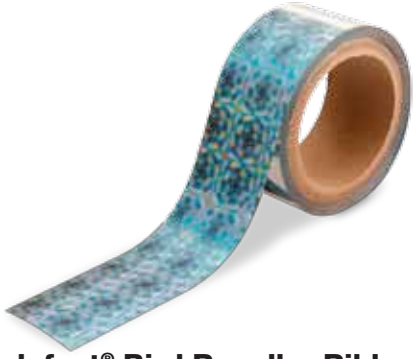
Terror-Eyes

5086

The eyes have it!

Unlike other bird deterrent systems, Terror-Eyes combines realistic owl markings (natural predators of birds) with large holographic eyes which appear to constantly be moving. Deters birds for longer periods of time than rubber snakes, plastic owls, or scarecrows. Weatherproof ball is made of thick vinyl and measures 2 feet in diameter when inflated. Bottom loop allows you to anchor the ball in windy areas.

Terror-Eyes	13 oz.	**35895**	**$50.50**



Tanglefoot® Bird Repeller Ribbon

6617

Repels by sight and sound.

Effectively keeps birds away from ground crops, fruit trees and vines, and any other area where birds are a nuisance. A holographic, iridescent mylar creates an optical, audible, and physical discomfort zone for birds and other nuisance animals. Hung in the breeze, it projects flashing reflective images and an unnerving metallic rattle. Birds leave the area promptly and stay away as long as it's there. Even animals as large as deer shy away from it. 100′ Roll of ribbon.

Tanglefoot Bird Repeller Ribbon, 2″ x 100′ Roll	6 oz.	**79205**	**$17.25**
		6+	**$14.95**

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Hi-Vis Barrier Fencing pages 23 and 564

Deer Fence Kit
4699

Everything you need to protect your trees, shrubs, and property from deer or predators in one package! Kit includes one 7´ x 100´ Deer Net (folded), 10 poles extendible up to 8´ each, 20 sod staples, and 50 small green ties.

Deer Fence Kit, 100 ft. 25 lbs.	**25425**	**$129.95**

Economy Barrier & Game Deterrent Fencing
1625

Resists corrosion, rust, and pesticides.

High strength, long-lasting fence is ideal for light crowd control or traffic management. Use the 7´ Game Deterrent Fencing to obstruct deer and other large game. Lightweight, UV stabilized to prevent fading. 1˝ Mesh size.

Economy Barrier Fencing, 4´ x 100´ 4 lbs.	**25466**	**$46.50**
	4+	**$44.50**
Game Deterrent Fencing, 7´ x 100´ 7 lbs.	**25465**	**$75.50**
	4+	**$71.25**

Animal Control Scare-Away Cannons
50891

Ideal for controlling bird and varmint damage to orchards, groves, and gardens.

The harmless detonation of these all-steel cannons sounds like that of a 37 mm cannon. Operates on L.P. gas and has an automatic electronic ignition. Frequency of detonation can be regulated from 30 seconds to 20 minutes. A five-gallon bottle of L.P. gas (not included) allows the M-4 single detonation cannon to be left unattended for approximately 14 days while the M-8 multi-detonation cannon can be left unattended approximately 10 days. The manufacturer recommends moving the cannon periodically for best results. L.P. Gas bottle not included.

M-4 Single Detonation Cannon – with regular rhythm to firing from 30 seconds to 20 minutes.	27 lbs.	**35837**	**$399.00**
M-8 Multi-Detonation Cannon – with irregular rhythm to firing. Detonates three times in 25 seconds, then staggered volley of four shots in approximately one minute.	28 lbs.	**35838**	**$459.00**

Optional Rotomat 360° Rotating Platform – moves about 1/4 of its circle every shot. Powered by the same L.P. gas that the cannon uses. Does not require additional L.P. gas.	23 lbs.	**35839**	**$339.00**
Optional Clock Timer – allows the cannons to operate during daylight hours, remaining silent at night. Battery operated.	1 lb.	**35840**	**$145.00**

Scarecrow Motion Activated Sprinkler
67421

Detects animals day and night.

Keep cats, dogs, deer, rabbits, herons, raccoons, large birds, and other animals out of off-limits areas. Silently senses movement and then blasts water for 3 seconds. Animals leave the area and avoid it in the future. After waiting seven seconds, sprinkler is ready for next intruder. Uses 2 to 3 cups of water per deterrence. Water is sprayed only over area to be protected. Easy to install, move, and store. Uses one 9-volt battery.

Scarecrow Motion Activated Sprinkler	2 lbs.	**67751**	**$64.95**
9V Alkaline Battery, single	3 oz.	**02179**	**$3.20**

Plotsaver Deer Repellent System
45051

A revolutionary tool for protecting food plots, crops, orchards, reforestation areas, nursery stock and all other growing areas! The Plotsaver system features a reusable barrier ribbon treated with Plotsaver deer repellent to create a powerful physical and sensory barrier that deer will not cross. String Plotsaver barrier ribbon 30˝ high around plot perimeter on posts 30-33´ apart. Reapply Plotsaver deer repellent approximately every 30 days until plot is developed and you want deer to enter the area. Plotsaver is easily removed and reusable from year to year. Available in a kit, it comes complete with 840´ of 3/4˝ white ribbon and 1 pint of concentrate deer repellent which will treat the ribbon for about 100 days. Use the ribbon to treat an acre size plot, or cut the ribbon to protect multiple areas.

Plotsaver Starter Kit	R10	4 lbs.	**17033**	**$44.25**
			6+	**$41.25**
Plotsaver Repellent, Quart Concentrate	R10	2 lbs.	**17042**	**$30.95**
			12+	**$28.50**
Plotsaver Ribbon, 3/4˝ x 1320´		3 lbs.	**17072**	**$35.25**
			12+	**$32.50**

R10 Restricted. Cannot be sold in CA.
R24 Cannot be sold in CA, PR.

Deer-Off® Animal Repellent
69481

Repels not only deer, but also rabbits, squirrels, voles, moles, and other pests! Deer-Off is made from natural, food-based active ingredients. Its Dual Deterrent System™ utilizes both an odor and a taste barrier to repel animals. One application can last up three months, won't wash away in normal rain or snow, doesn't leave a film or residue, and doesn't change the color or texture of foliage. One 32 oz. bottle of concentrate solution yields two gallons and treats up to 4,000 square feet or approximately 400 shrubs. **Note:** Not recommended for use on food plants that are intended for human consumption due to the presence of egg solids in the product and the potential for allergic reactions.

32 oz. Concentrate	R24	2 lbs.	**17086**	**$43.50**
			12+	**$39.95**
1 Gallon Concentrate	R24	9 lbs.	**17084**	**$131.00**
			2+	**$122.00**

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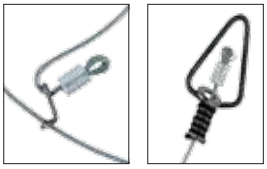
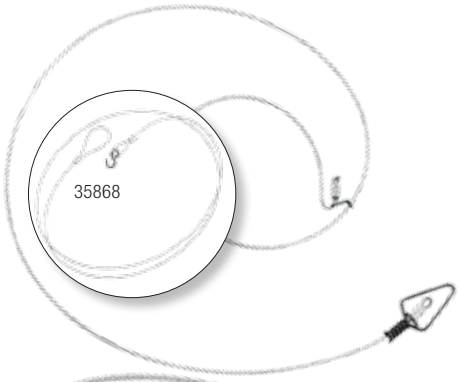
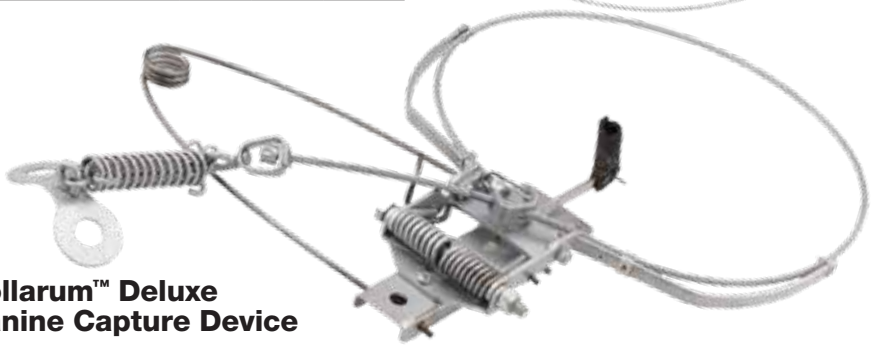
Beaver and Coyote Snares
7970





Snares are made of high strength, high quality 1 x 19 steel cable and come pre-loaded for faster trigger speeds. Comes with 1x19 Steel Cable, 5/64″ x 60″ snare, swivel end, bullet lock, and a deer stop.

Beaver and Coyote Snare, 1 Dozen	1 lb.	**35869**	**$24.95**
		12+	**$23.50**
72″ Snare Extension, 7x7, 3/32″, 1 Dozen	2 lbs.	**35868**	**$24.95**
		12+	**$23.50**



Collarum™ Deluxe Canine Capture Device
4174

Designed to meet international humane standards.

The Collarum is a canine-specific (coyote, fox, dog, wolf, etc.) capture device which is safe to use in urban settings and around livestock. The trigger mechanism requires a pull action on the bait cap which causes the spring-loaded cable loop to be thrown over the head and around the neck of the canine. The end of the capture loop is anchored in the ground with a stake (not included) preventing the canine from running away. Spare capture cable, instructional DVD, and printed instructions included.

Collarum Deluxe	3 lbs.	**35785**	**$95.90**
		6+	**$86.50**

Padded Jaw Spring Trap
5114

Better holding power than conventional wildlife traps virtually eliminates injury.

Shock-absorbing spring works with swivels to rotate captured animal. Coil springs provide enough pressure to catch, but not damage target. Rubber pads set in deep offset jaws minimize compression, rotate against the foot.

Size: 1.5; Jaws 5-3/16″; For fox ⚠	1 lb.	**35798**	**$13.25**
		6+	**$12.25**
		12+	**$11.50**

Coil-Spring Traps
5113

Fast and powerful for operating effectively in a dirt hole set. The #1.75 is equipped with chain swivel.

Size: 1.5; Jaws 4-7/8″ For fox, marten, skunk, mink, raccoon, fisher ⚠	1 lb.	**35778**	**$6.45**
		6+	**$5.95**
		12+	**$5.50**
Size: 1.75; Jaws 5-3/8″ For nutria, raccoon, skunk, coyote, bobcat ⚠	1 lb.	**35770**	**$8.85**
		6+	**$8.15**
		12+	**$7.60**

⚠ **Note:** The use of certain traps is restricted in some states. Check with your local game office to determine which traps can be used in your area.

Duke Dog-Proof Raccoon Trap
7644

Designed to effectively target raccoons, this fully enclosed trap is safe for use around dogs. The trap features a 1.5″ steel pipe with a trigger inside that springs the trap. Raccoons reach inside the pipe for the bait or lure, pull back, and are caught. The trap is ideal for use in populated areas where raccoon problems exist. Easy to set, the trap features powerful coil springs, a sensitive trigger system, and a straight spade staking system.

Duke Dog-Proof Raccoon Trap	1 lb.	**35684**	**$15.50**
		6+	**$14.25**
		12+	**$13.50**
New! Duke Dog-Proof Raccoon Trap Setter	3 oz.	**35667**	**$2.95**

PM Furs Coon Grabbers
7859

Designed for use in dog-proof traps, Coon Grabbers are a combination of lure and bait. To use, hold the trigger of the trap forward and slide the Grabber behind the trigger on edge, then using your finger or a stick, turn it flat in the back of the trap. The projections will protrude around the trigger giving the coon something to feel, making them work the trap harder. Coon Grabbers are designed to make the trap go off when the coon tries to remove them from the trap. Available in a variety of scents, they are reusable, freeze-proof, waterproof and have the scent cooked right into them. Pack of 12.

Fresh Shrimp Coon Grabber	8 oz.	**35721**	**$8.50**
Shad Coon Grabber	8 oz.	**35753**	**$8.50**
Shellfish Coon Grabber	8 oz.	**35754**	**$8.50**

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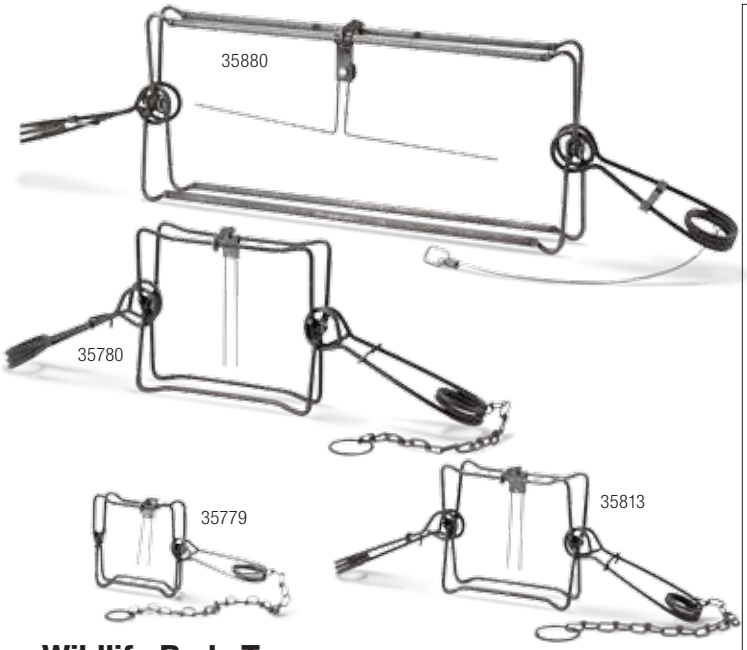
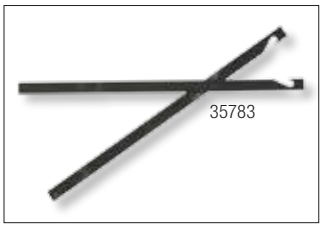


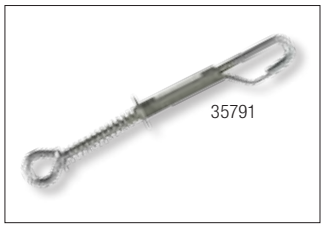
Wildlife Body Traps

5115

"Springkeeper" corner loops prevent springs from sliding around trap frame. Patented four-way trigger can be set off by animals approaching from any direction. Snap on or off easily as needed for baited or blind sets. High carbon steel and improved welding reduce trap bending or breaking.

Size: 110-2; Jaws 4-1/2″; For fox, marten, skunk, muskrat, mink, weasel	⚠	13 oz.	**35779**	**$4.10**
			6+	**$3.70**
			12+	**$3.40**
Size: 220-2; Jaws 7″; For raccon, badger, nutria, opussum, beaver, fisher, marten	⚠	2 lbs.	**35813**	**$11.50**
			6+	**$10.50**
			12+	**$9.75**
Size: 330-2; Jaws 10″; For beaver, otter, bobcat (chain included)	⚠	5 lbs.	**35780**	**$20.25**
			6+	**$19.25**
			12+	**$17.95**
Size: 660 Superbear; Jaws 26″; For beaver and otter	⚠	9 lbs.	**35880**	**$53.75**
			6+	**$49.25**





Body Traps Accessories and Replacement Parts

Short 330 Wildlife Body Trap Stand, 16″ Tall	12 oz.	**35876**	**$7.50**
		10+	**$6.75**
Tall 330 Wildlife Body Trap Stand, 45-1/2″ Tall	2 lbs.	**35877**	**$10.25**
		10+	**$9.25**
660 Superbear Trap Stand, 12″ Tall	2 lbs.	**35875**	**$9.50**
		10+	**$8.50**
Replacement Four-Way Trigger for 35780	2 oz.	**35807**	**$0.95**
Setting Tongs for 35813 and 35780	2 lbs.	**35783**	**$15.50**
Safety Gripper	3 oz.	**35791**	**$6.50**

Wells Lamont® Lined PVC Sports Gauntlet Gloves

2930

These full arm length gloves are constructed of foam-lined PVC that remains flexible even at low temperatures. Treated to resist the growth of mold, mildew, and odor-causing bacteria. Shoulder strap connects the pair of gloves. Green.

Large, One Pair	1 lb.	**94041**	**$25.75**

Self Locking Body Grip Trap Setter

4626

Use to set all sizes of the body grip traps. Setter locks when springs are depressed. Overall length is 24″.

Self Locking Body Grip Trap Setter	3 lbs.	**35728**	**$32.95**

RTS Setter Body Grip Trap Setting Tool

7650

Very effective for setting springs on all size body grip traps. The jaws hook on the spring arms, not spring holes, eliminating extra strokes and allows easy removal of stiff awkward catches wedged tight in a trap frame. Requires only one hand to operate. Fits in a pack or on a belt. 15″ Long and weighs 1 lb.

RTS Setter Body Grip Trap Setting Tool	2 lbs.	**35602**	**$54.95**

⚠ **Note:** The use of certain traps is restricted in some states. Check with your local game office to determine which traps can be used in your area.

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New! Comstock Double Door Wildlife Traps
4904

These heavy-duty traps have powerful trap doors that instantly snap into place when the trap is triggered preventing animals from backing out when the trap fires. The traps are triggered by a Patent Pending swing bar push through wire trigger mechanism which allows you to capture the most trap-shy animals. Locking doors prevent animals from escaping, even if the trap is flipped upside down. Traps can function in any position - standard, upside down, sideways, or vertically. Traps are powder-coated.

Comstock Double Door Beaver Trap
Construction: 1-1/2″ x 1-1/2″ - 12 gauge. **Dimensions:** 39″L x 18″W x 12″H. **Weight:** 23 lbs.

Comstock Double Door Beaver Trap	O	28 lbs.	**36117**	**$244.95**

Comstock Double Door Beaver/Raccoon Trap
Construction: 1-1/2″ x 1-1/2″ - 12 gauge. **Dimensions:** 36″L x 12″W x 12″H. **Weight:** 18 lbs.

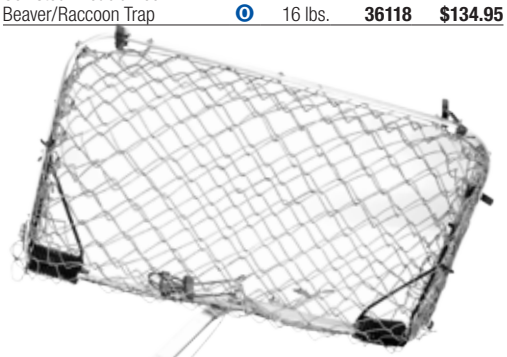
Comstock Double Door Beaver/Raccoon Trap	O	16 lbs.	**36118**	**$134.95**

Bailey Live Catch Beaver Trap
2414

Made in USA

Constructed with a heavy-duty aluminum frame and chain link mesh. A beaver triggers it when swimming over the trap and bumps the T-bar, causing the spring loaded aluminum jaws to snap into place. To remove trapped beavers, unhook the long arm of the two trap springs. This relieves the tension and allows the jaws to be opened after the jaw latches are unhooked.

Live Catch Beaver Trap	32 lbs.	**35760**	**$380.25**



Vet-Pro™ Animal and Reptile Handling Gloves page 403

#5 Double Long Spring Trap
4333

Everything a professional beaver trapper needs in a trap! Features a patented Paws-I-Trip Pan System, cast steel base, a center locator swivel system with machine link chain, and strong tempered springs. **Size:** #5. **Jaws:** 7-1/2″. **Use:** Beavers.

#5 Double Long Spring Trap	▲	4 lbs.	**35865**	**$36.50**
			6+	**$34.75**
			12+	**$32.75**

▲ **Note:** The use of certain traps is restricted in some states. Check with your local game office to determine which traps can be used in your area.

H.K. Porter Cable Cutter
2921

Top-quality, pocket sized cutter is excellent for 3/16″ hard wire rope or cable and 1/4 soft wire rope or cable, piano wire, or aircraft cable. Other features include shear-cut blades and rubber-coated handles. **Overall Length:** 7-1/2″.

H.K. Porter Cable Cutter	13 oz.	**95102**	**$36.75**

New! Dobbins' Products Backbreaker Beaver Lure
7858

A staple for many pros! This heavy castor-based beaver lure can be used year-round and is especially effective in the late fall through spring. 4 oz. Jar.

Backbreaker Beaver Lure 8 oz.		**35805**	**$15.50**

Beaver and Otter Trapping: Open Water Techniques
3759

By Charles L. Dobbins. Beaver Pond Publishing & Printing, Inc. Second printing, May 1999. Everything you need to know about beaver and otter trapping in open water is in this book. Topics covered include dams and lodges, bank dens, lures, castors and oil sacks, different types of traps and sets, snares, skinning knives, and skinning, fleshing and stretching beaver and otter hides. Softcover. 114 Pages.

Beaver and Otter Trapping Open Water Techniques 8 oz.		**61271**	**$12.00**

Polypropylene Sand Bags
1952

White, poly-string tie bags are made of woven polypropylene. String is attached to the bag. Each bag measures 14″W x 26″L. Bundle of 100 bags.

Polypropylene Sand Bags, 100 per bundle 8 lbs.		**58066**	**$58.50**
		10+	**$51.95**

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Hold-A-Hawg Foot Snare Trap Package

7993

A humane, non-lethal and safe way to trap a hawg! Using a leg hold trap to safely deliver the snare, the Hold-A-Hawg allows you to release any non-targeted animals unharmed. Package includes 1 Hold-A-Hawg Trap, 1 Hold-A-Hawg complete snare with tube, 1 steel pan cover, 1 pair trapper's gloves, and a 2011 Updated Instructional DVD.

Hold-A-Hawg Snare Trap Package	5 lbs.	**35881**	**$95.00**
Replacement 1/8″ Snare Assembly	7 oz.	**35882**	**$15.50**

Ultimate Wild Hog Snare

7970

Snares are made of high strength, high quality 1 x 19 steel cable and come pre-loaded for faster trigger speeds. Comes with 1x19 Steel Cable, 3/32″ x 72″ snare, two 5/16″ swivels, four 5/16″ quick links, 500 lb. shock spring, 7x19 1/8″ x 72″ extension cable.

Ulitmate Wild Hog Snare, Each	4 lbs.	**35883**	**$24.95**
		12+	**$23.50**
Replacement 72″ Loop End Snare, Each	2 lbs.	**35884**	**$3.50**
		12+	**$3.10**

Wild Hog Snare

7970

Snares are made of high strength, high quality 1 x 19 steel cable and come pre-loaded for faster trigger speeds. 1x19 Steel Cable, 3/32″ x 120″ snare.

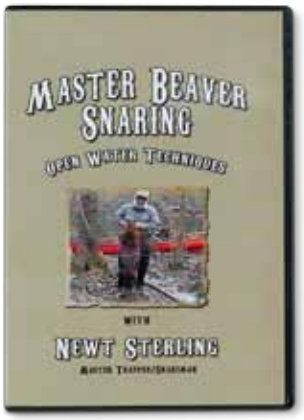
Wild Hog Snares with 120″ Loop End, 1 Dozen	2 lbs.	**35885**	**$64.00**
		12+	**$59.50**

Formula One Trap and Snare Dye

7970

Water soluble, easy-to-use and odor-free, this trap and snare dye adheres to all types of metal and gives a hard finish. Traps and snares are ready to use in about 24 hours. Available in black and brown. Quart. Non-returnable if opened

1 Quart, Black	2 lbs.	**35878**	**$19.95**
		12+	**$18.95**
1 Quart, Brown	2 lbs.	**35879**	**$19.95**
		12+	**$18.95**



Master Beaver Snaring DVD

7971

Follow Newt Sterling, a master trapper/snareman, to the swamps and flooded timber of North Carolina, as he snares beaver with his unique methods and equipment. Learn how to avoid otters when they are out of season while still taking beaver, learn sets that you might not typically associate with snares plus see how they are made, and learn to apply his KISS (Keep It Simple Stupid) System of beaver snaring.

Master Beaver Snaring DVD ▲	3 oz.	**61274**	**$34.95**

▲ Non-returnable if opened

River'n with Clint and Newt DVD

7971

This DVD lets you join Newt Sterling and Clint Locklear on their river trap and snarelines. Starting in the rivers and creeks of Tennessee, it ends up in Eastern North Carolina. Learn how to take red fox, coyote, bobcats, greyfox, coon and beaver from a boat and canoe. Instructional DVD covers footholds, body grips and snares. Locations are covered in detail as Newt and Clint explain how to work the water and river banks to become a more successful trapper.

River'n with Clint and Newt DVD ▲	3 oz.	**61276**	**$39.95**

Master Wild Hog Snaring DVD

7971

Wild hogs become wary of pen-type traps after a few initial catches and quickly avoid bait sites after being shot at. Snares are an effective, fast, mobile, inexpensive method of controlling hog populations. Newt Sterling has developed and designed equipment and methods in a system for catching and holding hogs ranging in size from piglets to the largest boar. This in-depth, 3-disk set is 2 hours and 49 minutes long.

Master Wild Hog Snaring DVD ▲	5 oz.	**61275**	**$39.95**

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Hog Slammer™ "V" Gate
7347

This Hog Slammer™ model features special "V"-shaped doors that allow smaller hogs to more easily push their way into the trap. A bag of hog attractant is included.

Hog Slammer "V" Gate	76 lbs.	**35829**	**$325.00**

Hog Slammer™ Trap Gate
7347

Effectively control the wild hog population on your land with the Hog Slammer! Simply assemble a pen using the Hog Slammer as the point of entry (materials for assembling pen not included). Hogs enter the pen through the adjustable saloon-style doors. A trigger rod holds the doors open until the hogs knock over a bucket of bait inside the pen. Once the doors are shut, the trapped hogs cannot escape. However, the doors do allow additional hogs outside the pen to enter. The captured hogs act as live decoys to attract even more hogs to the pen. The Hog Slammer is easy to set up and features heavy duty 14 gauge steel construction and a dura paint finish. Included with the Hog Slammer is a bag of hog attractant.

Hog Slammer Trap Gate	65 lbs.	**35775**	**$299.00**

Rooter Style Hog Trap Gate
7857

Similar to the Hog Slammer™, this rooter style gate allows for multiple hog captures. Assemble a pen with this gate as the point of entry (materials for assembling pen not included). Prop the door open and use bait to entice the hogs into the pen. Keep the door in an open position until the hogs are comfortable entering the pen. Simply lower the gates to begin capturing hogs.

Rooter Style Hog Trap Gate	73 lbs.	**35801**	**$299.00**

Steel Cage Hog Trap
7671

Designed for efficiency, durability, and ease of use! Strong yet lightweight, this trap can be loaded, transported, and set by just one person working independently. Constructed of 1-1/2″ angle iron and galvanized panels, the trap features a spring-loaded door and a back-of-trap trigger system which allows for the capture of multiple hogs. The trap is available with a closed or open top. Please consult your local game and fish office for trap requirements in your area. **Dimensions:** 4′W x 3′H x 8′L.

Steel Cage Hog Trap with Closed Top	F	82 lbs.	**35787**	**$400.00**
Steel Cage Hog Trap with Open Top	F	82 lbs.	**35799**	**$400.00**

F Ships Motor Freight. See Shipping Information for details.

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Tube Trap Squirrel Trap
4449

Get rid of those pesky squirrels with the Tube Trap. Used either baited or non-baited, the Tube Trap is a natural attractant to squirrels wanting to run through it or hide in it. Once the squirrel reaches the pan in the middle of the trap, the double torsion spring is triggered. When a capture is made, the squirrel is generally hidden from public view. The trap features a safety hook, is constructed of 21-gauge steel, and measures 4.5″ in diameter and 15″L. **Caution:** This is a lethal trap, use special care when and where setting.

Tube Trap Squirrel Trap 3 lbs.	**35803**	**$37.25**
	12+	**$35.95**
Armor-Coated Tube Trap Squirrel Trap Rust-Resistant 3 lbs.	**35802**	**$48.25**
	12+	**$46.40**
New! Tube Trap Cap, Package of 3 1 lb.	**35665**	**$25.75**

New! Squirrel Bait, Tube, Made from food grade paste and oils to specifically target squirrels and other rodents for humane capture. Note: Not for human consumption. 5 oz. **35886** **$4.95**

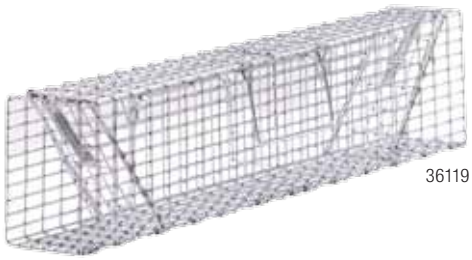
Note: The use of certain traps is restricted in some states. Check with your local game office to determine which traps can be used in your area.

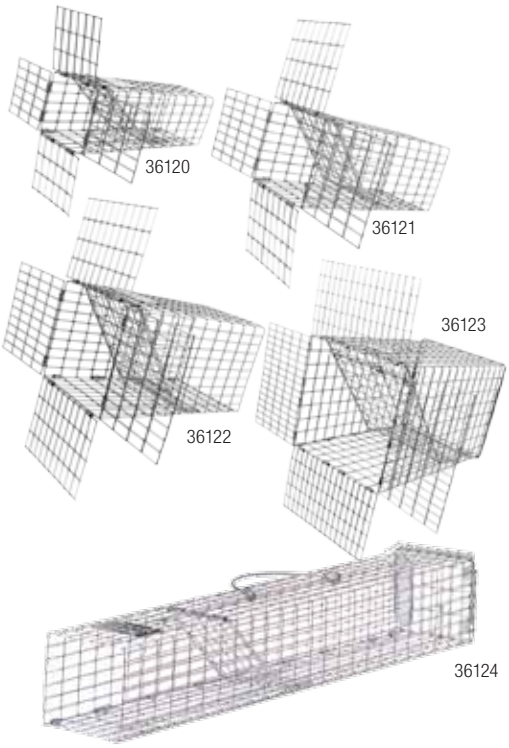
TruCatch™ Skunk and Armadillo Trap
7994

Made in USA

The steel panel body of this trap protects you from being sprayed or scratched, making it ideal for catching skunks and armadillos. It contains no springs or hinges and the ring-door closure design and adjustable trigger system ensure high catch rates. Made in the USA. 5-Year guarantee from the manufacturer. **Dimensions:** 24″ x 11″ x 12″.

TruCatch Skunk and Armadillo Trap 17 lbs.	**35874**	**$129.95**





New! Comstock Double Door Swing Panel Triggered Trap
4905

Designed to fit in rain gutters and capture all types of squirrels, chipmunks, gophers, and similar size animals. Flush-mounted, spring-powered double doors take animals from two directions when set right side up, sideways, or vertically. The unique, push-through, pan-less swing panel trigger makes it virtually impossible for an animal to pass through the trap without getting caught. **Construction:** 1/2″ x 1″ - 14 gauge wire. **Dimensions:** 24″L x 3″W x 5″H. **Weight:** 2 lbs.

24″L x 3″W x 5″H Comstock Double Door Swing Panel Triggered Trap	2 lbs.	**36119**	**$21.25**

Tomahawk Excluder with One-Way Door
2415

Made in USA

Designed to let animals remove themselves from unwanted areas. Excluders have mounting wings which allow them to be attached directly over the animals' entry/exit hole. The one-way door lets animals exit, but prevents them from returning.

Model E30 Excluder with One-Way Door 10x3x3, Small Rodent Size	13 oz.	**36120**	**$23.00**
Model E40 Excluder with One-Way Door 10x4x4, Chipmunk/Squirrel Animal Size	1 lb.	**36121**	**$23.95**
Model E50 Excluder with One-Way Door 12x5x5, Squirrel/Rat Animal Size	2 lbs.	**36122**	**$24.95**
Model E80 Excluder with One-Way Door 14x8x8, Large Rodent Size	4 lbs.	**36123**	**$39.95**

New! Repeating Traps for Excluder

Captures and holds animals once they exit the excluder.

Model SPT 30 Repeating Trap for E30 Excluder, Wire: 0.5″ x 1″ - 16 gauge. Dimensions: 24″L x 3.5″W x 3.5″D.	2 lbs.	**36124**	**$26.95**
Model SPT 40 Repeating Trap for E40 Excluder, Wire: 0.5″ x 1″ - 16 gauge. Dimensions: 30″L x 4.5″W x 4.5″D	3 lbs.	**36125**	**$29.95**
Model SPT 50 Repeating Trap for E50 Excluder. Wire: 0.5″ x 1″ - 16 gauge. Dimensions: 36″L x 5.5″W x 5.5″D.	4 lbs.	**36126**	**$32.25**

Duke Single Door Wildlife Cage Traps
3710

These strong, heavy-duty wire mesh traps feature a single-door which collapses to safely and humanely catch nuisance animals. Traps come fully assembled and are available in three convenient sizes.

Model 1100; 16″ x 5″ x 5″ Trap for Squirrels and other Small Rodents	2 lbs.	**35613**	**$10.50**
		12+	**$9.75**
Model 1105; 24″ x 7″ x 7″ Trap for Rabbits and Large Squirrels	4 lbs.	**35614**	**$23.75**
		6+	**$21.95**
Model 1110; 32″ x 10″ x 12″ Trap for Raccoons and Cats Ⓞ	9 lbs.	**35617**	**$40.50**

Duke Heavy Duty Single Door Cage Traps
8496

These professional live catch cage traps feature a 14-gauge welded wire perimeter, 1/4″ reinforced rod frame, durable powder coated green finish, 1/2″ spaced mesh wire for bait protection, and two gravity locking rings that allow for both a quick trapping force as well as a hands-free safe release. Upon capture, simply roll the trap 180 degrees (with a stick or other object) for easy release. This quick release eliminates close contact with the trapped and angry animal since it is not necessary to manually unlatch the hinged/locked trap door.

Model 1109; 26″ x 9″ x 9″; for large squirrels, rabbits, and skunks	8 lbs.	**34301**	**$30.25**
Model 1112; 30″ x 12″ x 12″; for raccoons, cats, and armadillos Ⓞ	12 lbs.	**34302**	**$51.95**
Model 1114; 36″ x 15″ x 14″; for large raccoons, foxes, and cats Ⓞ	18 lbs.	**34303**	**$62.75**

Ⓞ Oversize. Ships UPS 30 lb. rate. See Shipping Information for details.

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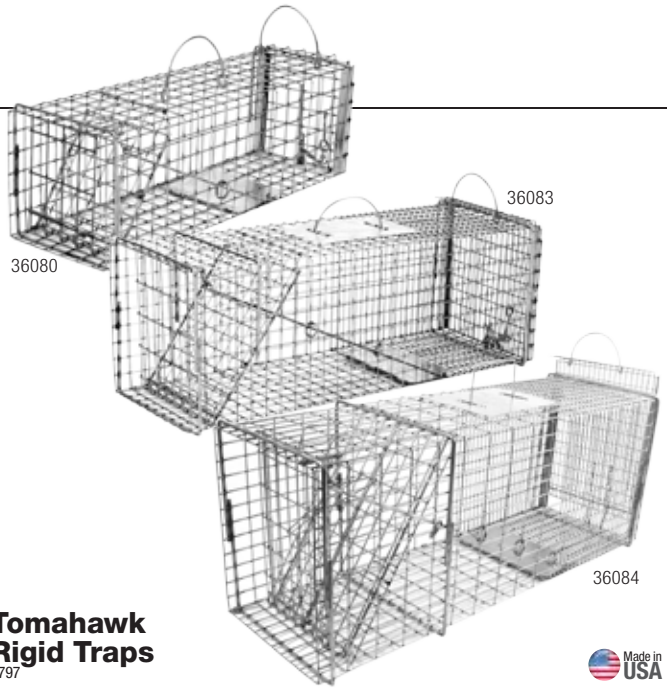


Tomahawk Rigid Traps
2797

Made in USA

These traps feature both a trap door and an easy release rear door! The easy release door provides for the safest and easiest way to release trapped animals while also allowing you to safely and easily transfer trapped animals to holding or transfer cages.

19 x 6 x 6 Rigid Trap - Squirrels, Muskrats	3 lbs.	**36080**	**$36.75**
		3+	**$33.95**
20 x 7 x 7 Rigid Trap - Skunks, Oppossums, Prairie Dogs	4 lbs.	**36081**	**$41.95**
		3+	**$38.75**
24 x 7 x 7 Rigid Trap - Extra Long for Skunks, Opposums, Prairie Dogs	4 lbs.	**36082**	**$43.25**
		3+	**$39.75**
26 x 9 x 9 Rigid Trap - Cats, Rabbits	8 lbs.	**36083**	**$62.50**
		3+	**$57.25**
32 x 10 x 12 Rigid Trap - Raccoons, Feral Cats, Badgers, Ground Hogs, Wood Chucks, Armadillos	14 lbs.	**36084**	**$80.75**
		3+	**$74.50**

Tomahawk Folding Traps
2796

Made in USA

These collapsible traps fold flat in seconds and require minimal storage space. Also allow you to carry and deploy more traps in the field at one time. Available with one locking trap door or two locking trap doors (doors at both ends).

16 x 5 x 5 Collapsible Trap - Chipmunks, Gophers & Rats	2 lbs.	**36072**	**$40.95**
		3+	**$37.75**
19 x 6 x 6 Collapsible Trap - Squirrels & Muskrats	3 lbs.	**36073**	**$40.95**
		3+	**$37.75**
20 x 7 x 7 Collapsible Trap - Skunks, Oppossums & Prairie Dogs	4 lbs.	**36074**	**$49.25**
		3+	**$45.50**
24 x 6 x 6 Collapsible Trap, Two Doors - Squirrels & Muskrats	4 lbs.	**36075**	**$53.25**
		3+	**$49.25**
26 x 9 x 9 Collapsible Trap - Cats & Rabbits	7 lbs.	**36076**	**$70.95**
		3+	**$65.50**
32 x 10 x 12 Collapsible Trap - Raccoons, Feral Cats, Badgers & Ground Hogs	12 lbs.	**36077**	**$104.95**
		3+	**$96.95**

Havahart Live Traps
5118

Made in USA

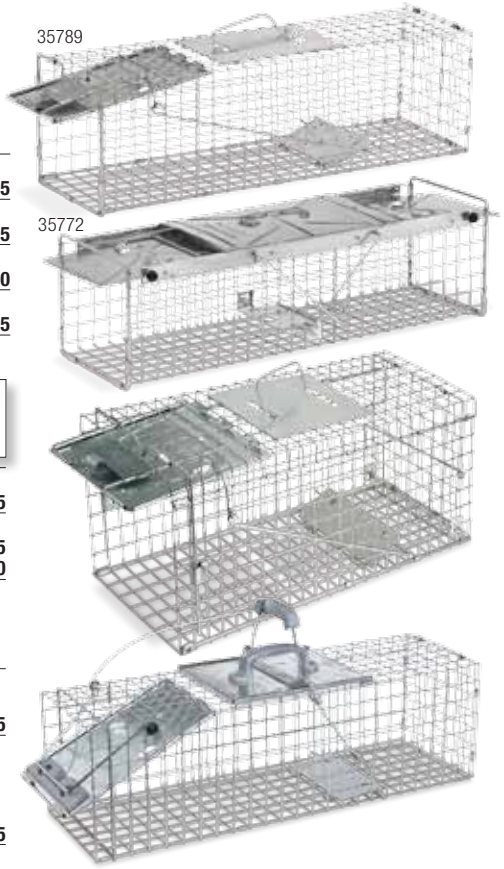
Designed for the humane control of nuisance animals. Fully assembled, each trap is made of high tensile wire mesh reinforced with steel for long life. Available in single- or double-door models.

Havahart Single Door Traps

No. 1078; 24″ x 7″ x 7″; For squirrels, chipmunks, groundhogs, rabbits and skunks.		5 lbs.	**35789**	**$42.95**
No. 1079; 32″ x 12″ x 10″; For raccoons and woodchucks.	O	10 lbs.	**35790**	**$60.25**
No. 1081; 42″ x 15″ x 15″; For bobcats, raccoons and small dogs.	O	22 lbs.	**35792**	**$97.25**
			4+	**$91.25**

Havahart Double Door Traps

No. 0; 10″ x 3″ x 3″; For mice, shrews		1 lb.	**35772**	**$17.95**
No. 1; 18″ x 5″ x 5″; For rats, weasels, chipmunks		3 lbs.	**35773**	**$29.75**
No. 2; 24″ x 7″ x 7″; For large squirrels, rabbits, minks		6 lbs.	**35774**	**$44.50**
No. 3; 36″ x 11″ x 11″; For all except bobcats	O	13 lbs.	**35776**	**$68.95**



Havahart® Collapsible Live Traps
8492

Made in USA

Easy to bait, set, and release! Each high-tensile wire mesh collapsible trap is steel-reinforced for superior durability. The spring-loaded door features sensitive triggers to ensure a fast, secure catch, and smooth inside edges help to protect the animal after capture.

Model 1088 – 24″ x 8″ x 8.25″; for skunks, squirrels, and rabbits	5 lbs.	**35872**	**$42.95**
Model 1089 – 32″ x 10″ x 12″; for armadillos, raccoons, and woodchucks (groundhogs)	10 lbs.	**35873**	**$60.25**
		10+	**$54.50**

Havahart® Easy Set Live Trap
8035

Made in USA

Safe and easy to use, this trap can be set with one hand! The set and release mechanism on the top of the trap limits interaction with the captured animal. The trap's animal-safe design features rolled metal edges and snug-fitting doors to eliminate sharp surfaces and gaps that could injure animals. Constructed of durable high-tensile wire mesh.

Model 1084 - 24″ x 7″ x 7″; for squirrels, rabbits, skunks, and similar size animals		6 lbs.	**35678**	**$51.25**
Model 1085 - 32.25″ x 12.25″ x 14.25″; for raccoons, cats, groundhogs, nutria, armadillos, and similar size animals	O	12 lbs.	**35679**	**$72.25**

O Ships at Oversize rate. See Shipping Information for details.

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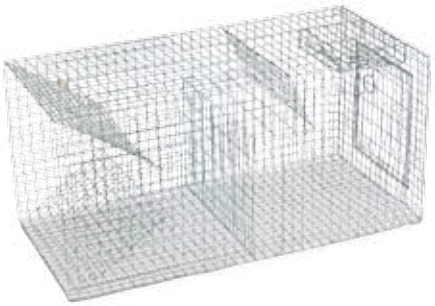

Pied Piper Turtle Trap
5126

This trap sinks to catch turtles as they feed along the bottom of ponds and lakes. Features a bait box located in the holding compartment. Constructed of 14-gauge galvanized, 1″ x 1″ wire mesh.

Model 505; 17″x 17″x 36″	O	12 lbs.	35688	$79.25
			3+	$75.25

Pied Piper Pigeon Trap
5122

This automatic repeating trap will hold up to 15 pigeons at one time. Birds are trapped alive and unharmed. Constructed of 14-gauge galvanized, 1″ x 1″ wire mesh with two one-way steel rod gates and a top hatch for easy removal. Pre-assembled.

Model 603; 10″x 24″x 36″	O	10 lbs.	35689	$79.25
			3+	$75.25

Pied Piper Sparrow Trap
6621

Features a door for easy removal of birds. Constructed of 1/2″ x 1/2″, 19-gauge galvanized wire, with no moving parts to break.

Pied Piper Sparrow Trap, Model 602; 7″W x 12″L x 24″D	4 lbs.	35601	$47.25

Inspect bird nests, gutters, chimneys, manholes, etc.

Forestry Suppliers Telescopic Inspection Mirror
5648

Ideal for inspecting hard to reach or dangerous places.

Inspect bird nests, chimneys, cavities, manholes, drains, gutters, etc. with this telescoping mirror! 6′ Heavy-duty, fiberglass pole telescopes to 17-1/2′. Detachable 5-1/2″ x 7-1/2″ mirror provides easy viewing. In low light situations, slide a miniature flashlight (optional) into the light bracket which comes standard on the head of the unit.

Forestry Suppliers Telescopic Inspection Mirror	5 lbs.	81063	$99.95
Mini Mag-Lite	7 oz.	02367	$13.75

New! Gotcha Sprayer Pro™
4989

Use the Gotcha Sprayer Pro adaptor with virtually any standard aerosol can to easily and safely spray hard-to-reach areas! Simply place the can in the adaptor and then attach the adaptor to an extension pole (sold separately). A trigger mechanism dispenses the spray, and the adaptor adjusts to almost any angle to reach the precise target area. In addition to saving time, the Gotcha Sprayer Pro also reduces the risk of ladder injuries and decreases exposure to spray chemicals. Ideal for use with wasp/hornet spray, spray paint, aerosol window cleaner, and pruning compound. Includes diamond braided cord.

Gotcha Sprayer Pro Adaptor 7 oz.	25427	$27.50

Telescoping Extension Pole – Three-section pole extends from 4.25′ to 11.75′. Features a composite fiberglass handle, aluminum tube, and 3/4″ die-cast metal threaded end.

2 lbs.	25426	$37.95

Bee Bopper Wasp and Hornet Spray
6013

Shoots up to 20′.

One blast knocks down and kills bees, wasps, yellow jackets, and hornets from a distance of 20 ft. Exclusive safety-directional clip-cap "trigger" prevents accidental or wrong-way shooting. Contains pyrethrin. 14 oz. Aerosol Can.

Bee Bopper Wasp and Hornet Spray 1 lb.	A	R10	25343	$6.20
			12+	$5.65

Bengal® Foaming Wasp & Hornet Killer page 645

O Oversize. Ships at Oversize rate. See Shipping Information for details.

A Extra Charge if Shipped by Air.
R10 Restricted. Cannot be sold in CA.

[search engine powered by magazooms.com]

Pith Helmets
1103

The ultimate sun helmet.

Made in USA

Each helmet features an adjustable headband for comfort and an absorbent sweatband. Choose from natural straw (double-lacquered for long life) or high density polyethylene in tan or white. One size fits all. Made in the USA.

Straw Pith Helmet
Double-lacquered for long life.

High Density Polyethylene
A US Postal Service version of this helmet is available. Call for details.

	Weight	Tan	White	Each	6+
Straw	6 oz.	**24361**	**24370**	**$26.50**	**$24.50**
High Density Polyethylene	11 oz.	**24338**	**24339**	**$18.95**	**$17.50**

1 Folding Beekeeping Veil
5136

Folding veil features an open mesh netting top with elastic cord to fit any hat or helmet. Strong seamed wire netting face, side and neck panels are hinged at all corners to permit easy flat folding for storing. Open mesh netting skirt for maximum protection and coolness. Attached zipper is ready to be sewn to your beesuit.

Veil with Zipper	8 oz.	**53816**	**$25.50**

Excelsior Beekeeping Veil
5135

Cool, wire veil features one-piece round construction allowing clear view in all directions. Double-seamed, open mesh netting, top and bottom. Elastic top, bottom drawstring.

Excelsior Beekeeping Veil			
6 oz.		**53819**	**$16.75**

Tulle Beekeeping Veil
5134

Lightweight veil uses clear-vision fabric that is really cool. Features elastic cord at bottom and top so the veil will fit any hat. Easy-to-carry, it can be folded and put in pocket.

Tulle Beekeeping Veil			
4 oz.		**53818**	**$18.25**
		4+	**$17.75**

2 Zipper Veil Suit
5137

Total protection for the beekeeper.

The location of the veil zipper holds the included folding beekeeping veil in place, assuring perfect vision and total freedom of movement. Features zippered side openings which allow full protection and easy access to trouser pockets and elastic wrists/pant cuffs to stop crawling bees. Easy to put on and take off.

Medium	3 lbs.	**53821**	**$90.75**
Large	3 lbs.	**53822**	**$90.75**
X-Large	3 lbs.	**53823**	**$90.75**

3 Canvas Beekeeping Gloves
5139

Heavy canvas gloves are specially treated for sting resistance. Full-elbow length sleeve has an elastic top and fits snugly around arm below elbow. Not washable.

Medium	7 oz.	**53830**	**$15.95**
Large	8 oz.	**53831**	**$15.95**

[search engine powered by magazooms.com]

Ketch-All Animal Restraining Pole
5145

Quickly snare or restrain most animals with the pole that zoos, humane societies, animal shelters, and veterinarians strongly recommend. The pole is constructed of tempered aluminum tubing, has a spring-loaded cable locking/release system, and rubber hand grips. Animal safety features include a plastic tooth guard, kink-resistant swivelling head, and a plastic-covered noose cable.

4 ft. Ketch-All		2 lbs.	**81506**	**$99.50**
5 ft. Ketch-All	X	2 lbs.	**81507**	**$109.95**

Animal Graspers
5148

Designed for the humane handling of cats and other small animals. The large, heavy-duty cast aluminum jaws have a smoothly contoured grasping surface to minimize discomfort to the animal. Jaws are recessed far enough into head to prevent pinching or gathering of skin. 4″ Diameter open, 1-1/2″ diameter closed.

Animal Graspers	2 lbs.	**81065**	**$88.25**
		41+	**$82.75**

Animal Throw Nets
8471

Ideal for capturing birds, cats, dogs, primates, waterfowl, and other types of wildlife. Lightweight and strong, each black nylon net features a weighted perimeter rope for easy throwing.

4′ Diameter Net; 1″ Mesh Size	1 lb.	**81511**	**$88.95**
6′ Diameter Net; 2″ Mesh Size	3 lbs.	**81512**	**$99.90**
8′ Diameter Net; 4″ Mesh Size	4 lbs.	**81513**	**$115.95**

Dog Dazer™ II Dog Deterrent
6919

Establish an ultrasonic safety zone between you and dangerous dogs.

Deter dogs as far away as 15′ with this handheld ultrasonic dog deterrent. The Dog Dazer™ II emits a high frequency sound which is discomforting to dogs, but not harmful. The sound is not heard by humans. Just point the Dog Dazer™ II at the approaching dog and hold the button for 2 to 3 seconds. Dogs can detect the sound at a distance of 15′, with the most effective range being 5′ to 10′. Made of durable, high-impact ABS plastic. Ergonomically designed to fit comfortably in your hand. Red LED indicates battery and on/off status. Includes stainless steel belt clip.

Minimum sound pressure level: 115 dB at 2′. **Power:** 9V alkaline (included). **Dimensions:** 2.25″W x 4.5″L x 1.3″D.

Dog Dazer II Ultrasonic Dog Deterrent	6 oz.	**25348**	**$29.25**

X Items 60″ or more require an additional handling charge.

MagNet Animal Capture Net Gun
7935

1 Manufacturer's Warranty 1 Year

This air-powered net gun is suitable for small animal capture, primarily birds and dogs. When fired, the net is propelled by the kinetic energy deployed to each of the four rubber-padded, corner-weights attached to the net. Constructed of all Aluminum-alloy, it is powered by a single 16 gram CO_2 canister (one shot per canister). Nets are available in various sizes from 2m x 2m to 3.5m x 3.5m. Various mesh sizes are also available to suit your application. The nets are interchangeable and, once untangled, can be re-used. Effective range varies with net size and configuration. You can expect a realistic capture distance of 10 to 25 feet, depending on your net and quarry. Instructional DVD included. 1 year Warranty from the manufacturer. **NOTE:** THIS IS NOT A TOY. THIS IS A PROFESSIONAL ANIMAL CAPTURE TOOL. IMPROPER USE MAY RESULT IN SERIOUS INJURY. ALWAYS KEEP THE MAGNET POINTED IN A SAFE DIRECTION.

Single Head

Includes one pre-loaded head (one net, one set of corner-weights), 4-16 gram CO_2 canisters, and one lockable, aluminum carry case.

Capture Device with 2m x 2m Net, 5cm mesh size	8 lbs.	**81554**	**$1660.00**
Capture Device with 2.5m x 2.5m Net, 10cm mesh size	8 lbs.	**81553**	**$1660.00**
Capture Device with 3.5m x 3.5m Net, 20cm mesh size	8 lbs.	**81555**	**$1660.00**

Two-Head

Includes two pre-loaded heads (two nets, two sets of corner-weights), 6-16 gram CO_2 canisters, and one lockable, aluminum carry case.

Capture Device with 2m x 2m Net, 5cm mesh size	8 lbs.	**81557**	**$1750.00**
Capture Device with 2.5m x 2.5m Net, 10cm mesh size	8 lbs.	**81556**	**$1750.00**
Capture Device with 3.5m x 3.5m Net, 20cm mesh size	8 lbs.	**81558**	**$1750.00**

Four-Head

Includes four pre-loaded heads (four nets, four sets of corner-weights), 8-16 gram CO_2 canisters, and one lockable, aluminum carry case.

Capture Device with 2m x 2m Net, 5cm mesh size	8 lbs.	**81560**	**$1920.00**
Capture Device with 2.5m x 2.5m Net, 10cm mesh size	8 lbs.	**81559**	**$1920.00**
Capture Device with 3.5m x 3.5m Net, 20cm mesh size	8 lbs.	**81561**	**$1920.00**

Replacement Parts and Accessories

Additional CO_2 Canister	1 lb.	**81550**	**$4.25**
Additional Corner Weights	4 oz.	**81551**	**$4.25**
Additional MagNet Head	1 lb.	**81552**	**$169.95**
Replacement Net, 2m x 2m Net, 5cm mesh size	2 lbs.	**81563**	**$34.00**
Replacement Net, 2.5m x 2.5m Net, 10cm mesh size	2 lbs.	**81562**	**$34.00**
Replacement Net, 3.5m x 3.5m Net, 20cm mesh size	2 lbs.	**81564**	**$34.00**

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Vet-Pro™ Leather/Kevlar Handling Gloves for Animals & Reptiles

5151

Manufacturer's Warranty 5 Year

For handling small, dangerous animals and large birds.

These gloves are nearly impossible to bite or scratch through. Fully lined with Ballistic Kevlar™ Felt in the hand and cuff for preventing teeth and claws from penetrating the skin or causing blunt trauma. Backed with a 5-year warranty from the manufacturer.

The Trapper

To be worn over the outer coat sleeve with a take-up strap on the cuff. 22″ Long.

Pair 2 lbs.	**26945**	**$139.95**

The Magnum

For handling vicious and wild animals. 22″ Long. Protective stainless steel staples on both sides of the fingers and the back of hands.

Pair 2 lbs.	**26946**	**$159.95**

The Forester

For handling bear cubs and primates. 22″ Long. Double thick leather cuff and protective stainless steel staples on both sides of the hand.

Pair 3 lbs.	**26944**	**$174.95**

Halt Dog Repellent

5153

Temporarily painful, but medically safe. Effects usually wear off in a few minutes. Uses .35% Capsaicin, a naturally occurring extract of peppers, which, when sprayed in a dog's face, causes only temporary, but extreme discomfort for the dog. Shoots stream up to 10 feet. Comes with convenient belt clip.

Halt Dog Repellent, 1.5 oz. Spray can	A R10	3 oz.	**25336**	**$5.50**

Halt II Dog Repellent

5153

285% Stronger than the regular Halt!, Halt! II uses 1% Capsaicin to stop vicious dogs in their tracks! Temporarily painful, yet medically safe. Effects of the spray usually wear off in a few minutes. Pressure packed spray shoots streams to 10′. 1.5 oz. Canister clips onto your belt or a pocket.

Halt II Dog Repellent, 1.5 oz. Canister	A R10	2 oz.	**25449**	**$7.10**
			12+	**$6.85**

Counter Assault™ OC-10 Pepper Spray

5152

Prevents attacks from up to 12′ away. Made primarily of oleoresin capsicum, this aerosol spray quickly disables an attacker by causing severe irritation of the eyes, throat, and upper respiratory tract. Effects may last 20 to 30 minutes. A black nylon holster with snap closure (sold separately below) is available for attaching deterrent to a belt for fast retrieval. **Range:** 10 to 12 feet. **Dimensions:** 1-1/2″ Dia. x 6″ Tall.

OC-10 Pepper Spray, 3 oz. Volume	R	5 oz.	**17002**	**$16.75**
			6+	**$14.75**
Black Nylon Holster		2 oz.	**17003**	**$10.70**
			6+	**$9.10**

Counter Assault™ Bear Deterrent Pepper Spray

5150

Discharges a powerful, high volume blast into the animal's face. Designed for one-hand use, this aerosol spray disables the animal's upper respiratory system. Consisting of capsaicin and related capsaicinoids, a red pepper derivative, this non-toxic, non-lethal deterrent is strong enough to stop a bear in its tracks. Meets or exceeds IGBC Recommendations. Black nylon holster is available for attaching deterrent to belt or backpack strap (fits 17000 only). **Range:** 12 to 30 feet.

Bear Deterrent, 8.1 oz. Volume	R	12 oz.	**17000**	**$36.95**
Bear Deterrent, 10.2 oz. Volume	R	14 oz.	**17008**	**$46.95**
Black Nylon Holster (Fits 8.1 oz. spray only)		1 oz.	**17001**	**$10.25**
			6+	**$8.50**

R10 Restricted. Cannot be sold in CA.
R Restricted. Cannot ship by air.
A Extra Charge if Shipped by Air. See Shipping Information for details.

Manufacturer's Warranty 5 Year

Vet-Pro™ Warden Pro-Max Animal and Reptile Handling Gloves

3725

Complete dexterity while providing maximum puncture resistance.

Manufactured from top grain Palomino cowhide with a double layer of ballistic Kevlar Felt on the fingers, hand and cuff for maximum protection against the intrusion of sharp objects. Seams are in-stitched with 100% Kevlar thread. 21″ Long cuff. Backed with a 5-year warranty from the manufacturer.

Warden Pro Max Gloves 1 lb.	**26947**	**$134.95**

New! Sound Defense® K9 Warning Device

4915

Keeps aggressive dogs at a safe distance!

Using a loud audible signal that targets a dog's sensitive hearing range, the Sound Defense effectively deters pursuing dogs. Simply point the device at an approaching dog and press the activation button. The lightweight device has a wide beam angle, does not require precise aiming, and operates even when held upside down. Humane, safe, and chemical-free, the Sound Defense is weather-resistant, alerts you when battery power is low, and features a pocket clip that can be positioned on either side.

Power: 9V battery (included). **Battery Life:** Approximately 30 minutes of continuous use (with normal operation time of 2 to 15 seconds per use). **Dimensions:** 6.6″H x 4.2″W. **Weight:** 7 oz.

Sound Defense K9 Warning Device 10 oz.	**25317**	**$37.50**

Utility Holster, Features a sturdy belt clip and snap closure. The open design allows the Sound Defense to be positioned on the user's left or right side.

3 oz.	**25457**	**$20.75**

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Manufacturer's Warning: Do not use aluminum poles around electrical lines or equipment. Electrical shock may result.

Snake Boots and Chaps pages 639 to 641

1 Professional Snake Hook
8589

Features a strong titanium hook, aluminum shaft, and mid-shaft foam grip. **Total Length:** 45˝.

Professional Snake Hook	12 oz.	**81092**	**$72.50**

2 Forestry Suppliers Snake Hook
5147

Standard 44-1/2˝ snake hook is designed for the safe handling of snakes, keeping them at a secure distance from handler. Club shaft is constructed of sturdy chrome plated steel with a stainless steel hook and a non-slip rubber grip. Handle color may vary.

Forestry Suppliers Snake Hook	9 oz.	**81059**	**$36.25**

3 Collapsible Snake Hook
5147

Collapses from a total length 39-1/2˝ to 17-3/4˝ for convenient carrying.

Collapsible Snake Hook	7 oz.	**81061**	**$50.25**
		4+	**$46.75**

4 Professional Field Hook
2166

Strong and lightweight, this field hook was designed to help you turn over rocks, boards, tin and other items in the field when looking for snakes. Durable titanium and aluminum construction with a super grip textured end. **Total Length:** 45˝.

Professional Field Hook	11 oz.	**81041**	**$72.95**

5 Reptile Tongs
5143

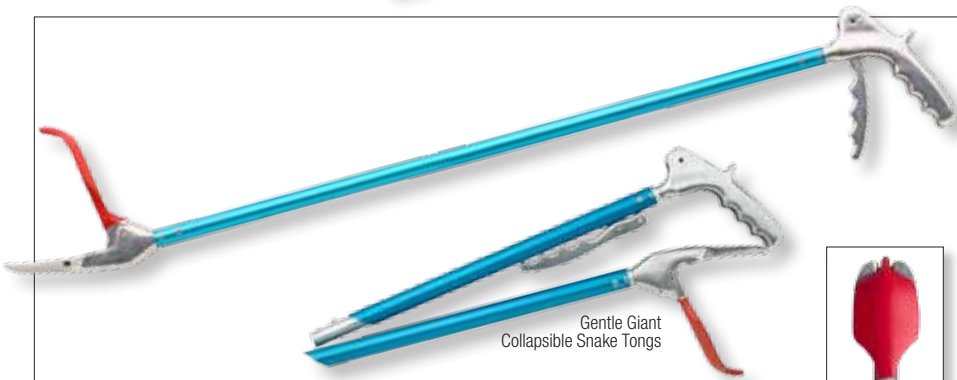
Collect reptiles with less danger using these lightweight aluminum tongs. Broad convex jaws provide maximum holding pressure with minimal risk of damage to reptile.

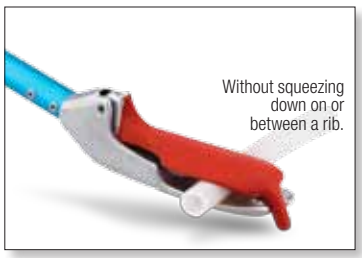
40˝ Reptile Tongs	2 lbs.	**81067**	**$70.25**
52˝ Reptile Tongs	2 lbs.	**81055**	**$86.50**
		4+	**$81.25**

Collapsible Reptile Tongs

These tongs fold to 22˝ long for carrying in a backpack or to keep under the seat of your vehicle. **Total Length:** 40˝.

40˝ Collapsible Reptile Tongs	2 lbs.	**81054**	**$86.50**
		4+	**$81.25**





Gentle Giant & M-1 Series Snake Tongs
2165

For the most humane handling of snakes!

Top jaw is triple rubber coated to create drag while the lower jaw is polished for a smooth surface which reduces a snake's ability of forward motion. Constructed of blue aircraft grade aluminum tubing with a concealed stainless steel cable and spring.

Gentle Giant Tongs

For heavy-bodied snakes. 2-1/4˝ wide gentle grip that spreads the pressure over a wider area on the snake's body without squeezing down on or between a rib and causing injury. **Total Length:** 40˝. **Collapsible Model:** Folds to 22˝L.

40˝L	2 lbs.	**81045**	**$95.25**
40˝L Collapsible Tongs	2 lbs.	**81056**	**$122.75**

M-1 Series Tongs

The 1˝ wide jaw of these tongs makes them easier to manipulate in small crevices or other tight spots. Also great for smaller-bodied snakes. **Total Length:** 40˝L or 52˝L. **Collapsible Model:** 40˝L, folds to 22˝L.

40˝L	1 lb.	**81057**	**$86.75**
52˝L	2 lbs.	**81066**	**$96.50**
40˝L Collapsible Tongs	2 lbs.	**81086**	**$106.25**

[search engine powered by magazooms.com]

ScentBlocker® Snake Chaps
4225

These chaps provide excellent protection from all poisonous North American snakes. Constructed from spun polyester duck with a neoprene coating and featuring 2 adjustable, quick release buckle closures and adjustable straps for different inseams. Colors may vary.

Regular – 25″ Thigh

Regular, 29″ to 32″ Inseam	3 lbs.	**23017**	**$68.75**
Short, 25″ to 28″ Inseam	3 lbs.	**23016**	**$68.75**
Long, 33″ to 36″ Inseam	3 lbs.	**23018**	**$68.75**

Husky – 28″ Thigh

Regular, 29″ to 32″ Inseam	4 lbs.	**23019**	**$68.75**
Short, 25″ to 28″ Inseam	3 lbs.	**23011**	**$68.75**
Long, 33″ to 36″ Inseam	3 lbs.	**23012**	**$68.75**

Snake Bagger
7125

Capture snakes safely.

The Snake Bagger uses two 48″L bags for safety, allowing you to always have a backup bag when one bag is in use. A convenient sleeve on the bottom corner of the bag allows you to use the optional set of plastic restraining tubes (sold separately) once a snake is in the bag. The set consists of 2 end caps and 10 tubes which measure approximately 24″L and range from 3/8″ to 2″ in diameter. The tubes are ideal for holding the head end of a snake while probing or during minor veterinary work. The Snake Bagger's triangular frame is constructed of aircraft grade aluminum and features a strong, comfortable handle. Additional replaceable inner bags available.

Snake Bagger	2 lbs.	**81291**	**$90.95**
Replaceable Inner Bag	9 oz.	**81292**	**$25.95**
Set of Restraining Tubes	1 lb.	**81293**	**$29.00**

Note: This product is intended for use by professionals only.

Okefenokee Joe: Know Your Snakes DVD
5184

Award-winning and highly informative.

This DVD will teach you how to identify and avoid encounters with Rattlesnakes, Cottonmouths, Coral snakes, and Copperheads commonly found in the Southeastern United States. Contains nearly an hour of herpetological accurate snake footage. DVD features both Volumes I and II. VHS format available by special order.

Volumes I & II, approx. 60 min. ▲	4 oz.	**33449**	**$24.95**

Snake Chaps and Gaiters pages 640 and 641

The Extractor Snake Bite and Sting Kit
3602

No cutting necessary!

Suction pump painlessly extracts up to 80% of the poison in three minutes from snakebites and insect stings by creating a vacuum on the surface of the skin. Small, light, reusable. Can be used with one hand. Kit includes four different size suction cups, safety razor for removing body hair around bite, one PVP Iodine wipe, three bandages, high-visibility plastic case, poison directory, and first aid manual. Case measures 3-1/4″ x 4-3/4″ x 1-3/8″.

The Extractor Snake Bite and Sting Kit 5 oz.		**25679**	**$17.75**
	6+		**$16.50**

Note: This kit is not a substitute for medical care!

▲ **Note:** Software and Videos are non-returnable if the seal is broken or opened.

Ⓡ10 Restricted. Cannot be sold in CA.

Snake Guard® Snake Trap
5154

Patented technology allows you to catch snakes and then release them unharmed. To use, unfold the trap with the release paper strips facing up. Carefully peel back release paper, exposing the specially formulated glue (avoid any contact with glue, it is very sticky). Fold the trap along the scored folds so that it forms a box with the glue strips on the inside, and fasten the top. Works best when placed against a wall. Captured snakes are released by simply pouring vegetable oil over them. The trap's glue formulation improves user safety during the snake release process. A wax coating on the cardboard helps the trap better withstand the elements. **Dimensions:** 23″ x 11-1/4″ x 2-5/16″.

Snake Guard Snake Trap 12 oz.		**81068**	**$22.95**
	12+		**$20.25**

Snake-A-Way® Snake Repellent
5149

The only EPA registered snake repellent available!

Effectively repels poisonous and nonpoisonous snakes for months in all types of weather. Its special chemical composition emits a scent which interferes with a snake's sensory reception and fools them into thinking an enemy is nearby. Granular repellent may be sprinkled around an area's perimeter or lightly broadcasted for better control over problem areas. Treats 417 linear feet or 10,590 square feet. Caution: Hazardous to humans and domestic animals. This pesticide is toxic to fish. Do not apply directly to water or to areas where surface water is present, or to inter-tidal areas below the mean water mark.

4 lb. Bag 4 lbs.	Ⓡ10	**17070**	**$17.25**
	6+		**$15.25**

Locking Animal Containment Cap for 5-Gallon Buckets
7179

Designed for safe snake containment, this security cap fits on any five-gallon bucket (not included). Simply place the collar on the bucket, and then screw the lid onto the collar. The security cap features a clear lockable door for viewing snakes and ventilation holes along the top.

Locking Animal Containment Cap for 5-Gallon Buckets 2 lbs.		**81205**	**$44.95**

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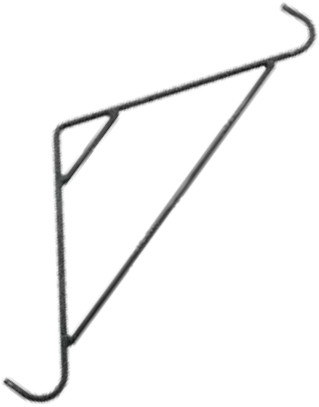
Suspension Chain
5160

For suspending carcass from scale by front or rear feet. Non-rusting, chrome-plated 24″ steel chain with welded links and end rings.

24″ Suspension Chain 8 oz.	**35811**	**$5.75**



Game Gambrel
5158

Sturdy steel rack with two crossbars for extra strength. The large hooks on each end securely hold a deer's carcass. It's easy to use, and it will help make dressing and skinning more convenient.

Game Gambrel 2 lbs.	**93321**	**$12.75**
	4+	**$11.65**

All Steel Jawbone Extractor
5163

Redesigned angled tip allows you to more easily retrieve a deer's jawbone for age determination while avoiding damage to the trophy character of deer's head. Requires jawbone removal loppers.

All Steel Jawbone Extractor 1 lb.	**35814**	**$15.90**

Moultrie® Hanging Scale
7914

English

Heavy-duty 440 lb. capacity scale is ideal for weighing deer and other large game animals. Easy-to-read dial. All-steel frame construction ensures durability. Includes two steel S-hooks for fast attachment to a hoist and gambrel system.

Moultrie Hanging Scale, 440 lbs. x 2 lbs. 3 lbs.	E	**93696**	**$23.75**

Pelouze® Hanging Scales
5400

English

For use wherever a rugged, heavy-duty, accurate scale is required. Graduations deeply etched for durability and protection. Adjustment screw for zero set. 3-1/4″ x 2-1/2″ x 19″.

110 lbs. x 1 lb. 4 lbs.	E	**93491**	**$54.25**
		3+	**$49.95**
220 lbs. x 2 lbs. 5 lbs.	E	**93490**	**$59.75**
		3+	**$54.95**
330 lbs. x 5 lbs. 5 lbs.	E	**93497**	**$62.75**
		3+	**$58.50**
24″ Suspension Chain 8 oz.		**35811**	**$5.75**

CORONA
SEASON AFTER SEASON

Jawbone Removal Shears
5166

1-1/2″ Cutting Capacity

Slim-designed loppers feature a resharpenable, forged carbon steel bypass blade which easily accesses jawbone sockets and provides crisp, accurate cuts. Features a self-aligning pivot bolt and shock stop bumper. Lightweight, high-strength aluminum handles have non-slip grips. **Handle Length:** 29″. **Cutting Capacity:** 1-1/2″ Dia.

Jawbone Removal Shears 2 lbs.	**81102**	**$31.25**

Forestry Suppliers Deer Data Tags & Ties
5164

Tag carcasses or extracted jawbones with important facts that can be correctly matched with information recorded previously on data sheets. Data lines include: hunter's name, club, date deer was killed, sex of the deer, lactation, live and dressed weight, age, inside spread, number of points, beam circumference, beam length, and space for additional comments. Each tag measures 6-1/4″ x 3-1/8″ and is printed on manila card stock.

Deer Data Tags, Pack of 50	7 oz.	**79364**	**$6.95**
8″ Twist-Ems Twist Ties, Bundle of 1,000	1 lb.	**79126**	**$6.25**
		10+	**$5.40**

E English

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3D Deer Aging Kit
4393

Takes the guesswork out of aging deer!

Designed by wildlife biologists, this 3-D Deer Aging Kit provides a quick, easy and inexpensive way to estimate the age of your harvested deer. Simply match the tooth wear pattern of the harvested deer to the Deer Aging Tool, which also has the similar weight and mass of a real jawbone. The Deer Aging Tool contains eight solid cast jaws ranging from 1-1/2 to 8-1/2 years of age. A "Quick Tips" laminated card is included detailing important wear pattern characteristics of each age class, and helpful reminders are included on each replicated jaw.

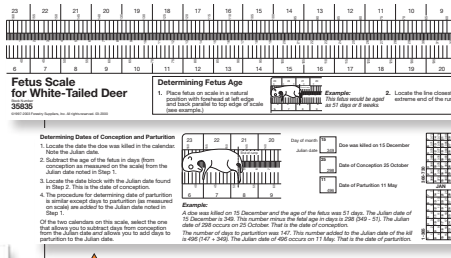
3D Deer Aging Kit	2 lbs.	**35846**	**$32.50**
	12+		**$29.95**

SpeedAger™ Kit
6387

Helps you determine the age of white-tailed deer.

Includes the SpeedAger™ Deer Aging Card with a complete set of color photos of jawbones and teeth for different aged deer. Also includes forms for recording information, and a booklet containing helpful tips on trophy management.

SpeedAger Kit	2 oz.	**35834**	**$6.90**
Jawbone Aging Card only – Package of 10	6 oz.	**35850**	**$33.35**



JIM + GEM

JIM-GEM® Fetus Scale
6386

Easy-to-use rule features five different scales which allow you to quickly determine days and weeks from conception, days and weeks to birth, and overall fetus length in millimeters. Made of flexible white plastic and printed with complete instructions on use.

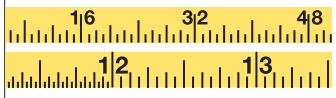
Fetus Scale for White-Tailed Deer 1 oz.	M	**35835**	**$6.25**

Lufkin®

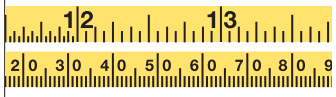
Lufkin® Spring Rewind Executive Thinline Diameter Tape
1433

English or Metric

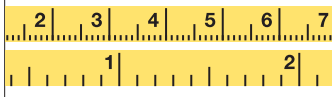
1/4″ wide line is yellow enameled steel with black graduations. Square ring on end. Spring rewind. Pocket sized. **Dimensions:** 1.5″ diameter.



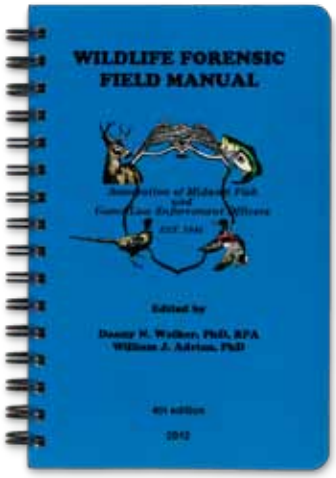
Model W606P – 23″ diameter in inches to 64ths on one side, 72″ linear in inches to 16ths first 12″ in 32nds on other side. 2 oz.	E	**39015**	**$16.50**



Model W606PD – 23″ diameter in inches to 100ths on one side, 72″ linear in inches to 16ths first 12″ in 32nds on other side. 2 oz.	E	**39016**	**$17.95**



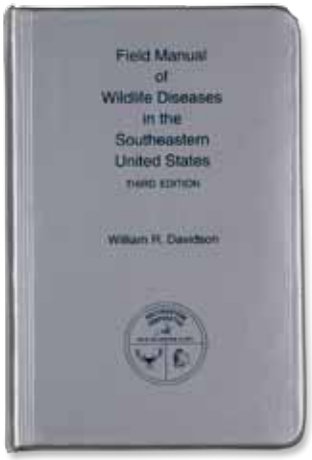
Model W606 PM – 64 cm Diameter in cm, mm on one side, 200 cm linear in cm, mm on other side. 2 oz.	M	**59505**	**$17.50**



Wildlife Forensic Manual
5182

Printed by the Association of Midwest Fish and Game Law Enforcement Officers. Fourth Edition, 2012. Edited by William J. Adrian, Wildlife Researcher, Colorado Division of Wildlife. Details methods used to establish the time of death (TOD), sex, and age of a variety of wild game such as rabbits, waterfowl, and deer. Also provides procedures for collecting and submitting evidence and samples to forensic labs. Other topics discussed include differentiating types of wounds, identifying and recovering spent bullets, and keeping court acceptable records. Includes laminated English/metric ruler with pheasant sexing gauge printed on back. Hard plastic cover with ring binders. 5″ x 7″ x 1″.

Wildlife Forensic Manual	13 oz.	**35854**	**$58.25**



Field Manual of Wildlife Diseases in the Southeastern United States
5185

In-depth manual with color illustrations to aid in the identification of common wildlife diseases and parasites.

By William R. Davidson, Victor F. Nettles. Third Edition. 448 Pages. **Includes the following species:** White-tailed deer, wild swine, black bear, raccoon, striped skunk, red fox, gray fox, coyote, bobcat, opossum, mink, river otter, muskrat, beaver, cottontail rabbit, gray squirrel, woodchuck, armadillo, wild turkey, ruffed grouse, bobwhite quail, mourning dove, and waterfowl. Weatherproof, softcover.

Field Manual of Wildlife Diseases in the Southeastern United States	1 lb.	**35845**	**$45.00**

E English M Metric

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Transcend Micro SD, SD and Compact Flash Memory Cards

8180

Micro SD Memory Card

Tiny size, better performance and impressively fast data transfer speeds, make these microSD cards the perfect choice of Memory Card for use in the next generation of electronic devices.

2 GB Micro SD Card 3 oz.	▲	02512	$12.95

SD Memory Card

The best choice for high-performance results from your digital camera and other handheld devices. 133 speed cards.

Transcend 2.0 GB SD Card 4 oz.	▲	02513	$27.25

SD High Capacity Memory Card

Based on the new generation of SD cards (SD 2.0) that support the FAT32 file system format. Fully Class 6 compliant. Compatible with all SDHC-labeled host devices (not compatible with standard SD). SD devices that do not specifically support SDHC are not compatible.

8.0 GB SD High Capacity Card 1 oz.	▲	02516	$15.50

CompactFlash (CF) Memory Card

Ultra 133X CompactFlash memory cards are the best choice for use in high-resolution digital cameras and other high-performance devices.

2.0 GB CF Card 3 oz.	▲	02510	$22.95

Please call for latest pricing.

▲ Note: Non-returnable if opened or seal is broken.

91409

91413

91411

91288

91299

New! Reconyx™ UltraFire Digital Game Cameras

3964

Made in USA

Manufacturer's Warranty 2 Year

In addition to capturing still images with up to 8 megapixel resolution, these cameras also record 1080P HD video at 30 frames per second with 24bit Digitally Enhanced Stereo Audio. The 2.4″ color TFT display provides a user-friendly interface for camera programming options and allows for easy playback of images and videos. Use the Micro HDMI and USB output connections to view images and video on a television or to transfer data to your computer. Two dedicated camera lenses are included, one specifically designed to ensure rich daytime images and a second lens to provide clear nighttime images without having to use a mechanical infrared cut filter. Includes BuckView™ Advanced image management software that utilizes Google Maps® for geographically organizing and accessing images. Two-year manufacturer's warranty. Made in the USA.

Image Resolution: 3.4, 5, and 8 megapixels. **Video:** 720P 30fps, 720P 60fps, 1080P 30fps. **Memory Card Type:** SD or SDHC (not included). **Memory Card Capacity:** 32GB. **Power:** 12 AA batteries (NiMH rechargeable or 1.5 volt Lithium only). **Battery Life:** Up to 20,000 images. **Operating Temperature Range:** -20°F to +120°F. **Dimensions:** 4.75″H x 3.5″W x 3.0″D.

UltraFire Security Enclosure	2 lbs.	91413	$49.99

XR6 UltraFire High Output Covert IR Game Camera

The XR6 uses GEN2™ NoGlow Covert Infrared Night Vision Illumination with a range of up to 80 feet. The camera captures color images during the day and monochrome infrared images at night.

XR6 UltraFire High Output Covert IR Game Camera	2 lbs.	91409	$599.99

WR6 UltraFire White Flash LED Game Camera

The WR6 features High Energy White Flash LED Illumination with a range of up to 60 feet and captures color images both during the day and at night.

WR6 UltraFire White Flash LED Game Camera	2 lbs.	91411	$599.99

Reconyx™ HyperFire™ Infrared Digital Game Cameras

7439

Made in USA

Manufacturer's Warranty 1 Year

These 3.1 megapixel cameras are small in size but big on performance! Measuring 4-1/2″ wide x 5-1/2″ high x 3″ deep, the cameras boast trigger speeds as fast as 1/5 of a second and RapidFire™ NearVideo™ speeds up to two frames per second. Utilizing the exclusive Ultra HD IR™ camera lens, these cameras provide daytime images that are rich in color and nighttime infrared images that are sharp and clear. Time, date, temperature, and moon phase are stamped on each image. CodeLoc™ Pass-Code Protection provides superior theft deterrence. BuckView™ Advanced software included. One-year manufacturer's warranty. Made in the USA.

Image Resolution: 1080P High Definition/3.1 megapixel. **Memory Card Type:** Secure Digital (SD® or SDHC®, not included with camera). **Memory Card Capacity:** up to 32GB (4GB = approx. 10,000 images). **Operating Temperature Range:** -20°F to +120°F.

HyperFire Security Enclosure	2 lbs.	91299	$49.99

HyperFire™ HC500 Semi-Covert IR Infrared Scouting Camera

The HC500 features Lo-Glow™ Semi-Covert Infrared Emitters that provide a nighttime flash range of up to 50 feet. Powered by 6 or 12 AA alkaline, NiMH rechargeable, or 1.5-Volt Lithium batteries, enabling the camera to operate continuously for up to one year (up to 40,000 images).

HyperFire HC500	2 lbs.	91288	$449.99

HyperFire™ HC600 High Output Covert IR Infrared Scouting Camera

The HC600 with No-Glow™ High Output Covert Infrared Technology eliminates the tell-tale red glow common to other infrared cameras, plus it features a flash range of up to 60 feet. Powered by 12 AA NiMH rechargeable or 1.5-Volt Lithium batteries, enabling the camera to operate continuously for up to one year (up to 30,000 images).

HyperFire HC600	2 lbs.	91289	$549.99

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Reconyx™ HyperFire™ HC550 White Flash LED Digital Game Camera

4849

Manufacturer's Warranty 1 Year

Made in USA

This 3.1 megapixel game camera captures vivid color images during the day and utilizes white flash LED emitters to produce color images at night up to 30 feet away. The camera offers a trigger speed as fast as 1/5 of a second and RapidFire™ NearVideo™ speed up to two frames per second. The exclusive Ultra HD IR™ lens ensures sharp, clear images. Time, date, temperature, and moon phase are stamped on each image. CodeLoc™ Pass-Code Protection provides reliable theft deterrence, and the camera is protected from the elements by a rugged, weatherproof enclosure. An adjustable bungee cord and BuckView™ Advanced Mapping & Image Management software are included. One-year manufacturer's warranty. Made in the USA.

Image Resolution: 1080P High Definition/3.1 megapixel. **Flash Range:** Up to 30 feet. **Memory Card Type:** Secure Digital (SD® or SDHC®, not included with camera). **Memory Card Capacity:** Up to 32GB (4GB = approx. 7,000 images). **Power:** 12 AA batteries (NiMH rechargeable or 1.5 volt Lithium only). **Battery Life:** Up to 40,000 images. **Operating Temperature Range:** -20°F to +120°F. **Dimensions:** 4.5˝W x 5.5˝H x 3˝D.

HyperFire HC550 Digital Game Camera	2 lbs.	**91300**	**$549.99**
HyperFire Security Enclosure, Custom-fit enclosure features 16-gauge steel with weather-resistant powder-coat finish. Includes four lag bolts for mounting. Lock not included.	2 lbs.	**91299**	**$49.99**

Universal Tree Mount

7865

Use this versatile, heavy-duty screw-in mount to attach your trail camera to any tree! The universal mounting plate provides a stable platform for your camera, comes with all necessary hardware, and installs easily with no tools required. Simply press the tree mount securely against a tree or post, and then rotate the tree mount clockwise. If your camera has a built-in tripod receiver, you can attach the camera directly to the gimbal mount without the back plate for less conspicuous placement. The gimbal mount easily adjusts to almost any angle to ensure perfect camera aim.

Universal Tree Mount	4 lbs.	**92483**	**$25.95**

Reconyx™ HyperFire™ Security Series Infrared Digital Cameras

7567

Manufacturer's Warranty 1 Year

An excellent choice for stand-alone surveillance situations where no power or communication lines exist! The exclusive Ultra HD IR™ camera lens ensures sharp, clear images, and No-Glow™ High Output Covert Infrared Technology eliminates the tell-tale red glow common with other infrared cameras. Each camera also features a loop recording mode and can be scheduled by time of day and day of the week (weekday and weekend operation can be different). Powered by 12 AA batteries, the camera can run continuously for up to one year. CodeLoc™ Pass-Code Protection provides theft deterrence. MapView™ Security Edition software included. One-year manufacturer's warranty.

Image Data: time, date, temperature, and moon phase. **Infrared Flash Range:** up to 50 feet. **Battery Quantity/Size:** 12 AA. **Battery Requirements:** NiMH rechargeable or 1.5 volt Lithium only. **Battery Life:** up to 40,000 images. **Memory Card Type:** Secure Digital (SD® or SDHC®). **Memory Card Capacity:** up to 32GB. **Operating Temperature:** -20°F to 120°F.

SC950 HyperFire™ Covert Security Camera

Captures color images during the day and monochrome images at night.

Image Resolution: 3.1 MP/1080P High Definition. **Trigger Speed:** 1/5th second. **RapidFire Near-Video™ Speed:** up to 2 frames per second. **4GB Memory Card Capacity:** approx. 10,000 images.

SC950 HyperFire Covert Security Camera	2 lbs.	**91301**	**$649.99**

SM750 HyperFire™ License Plate Capture Camera

Specifically designed to capture images of license plates on vehicles traveling up to 50 miles per hour, this camera provides monochrome images both day and night.

Image Resolution: 1.3 MP/720P High Definition. **Trigger Speed:** 1/10th second. **RapidFire Near-Video™ Speed:** up to 3 frames per second. **4GB Memory Card Capacity:** approx. 30,000 images.

SM750 HyperFire License Plate Capture Camera	2 lbs.	**91309**	**$649.99**
AA cell Lithium Batteries, 4 pack	3 oz.	**02150**	**$13.95**
		6+	**$12.75**

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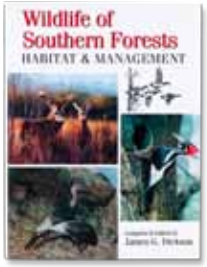
Cuddeback CuddeView™ X2 Field Viewer
8522

Take the CuddeView X2 with you from camera to camera in the field to easily view images when and where it's convenient for you! View images, zoom, pan, delete, see date/time, or transfer images to a second SD card. Two SD card slots allow you to copy images from a source card to a destination card or between any two SD cards. The CuddeView X2 serves as a card reader for your computer and also allows you to view images on your television (all cables included). Works with most scouting cameras. **Power:** 4 AA batteries (not included).

CuddeView X2 Field Viewer 11 oz.		**91357**	**$100.00**



Wildlife of Southern Forests Habitat and Management
2250

The most comprehensive manual on Southern Forest habitat and management techniques!

Compiled and edited by James G. Dickson. Hancock House Publishers, 2001. Traces the history of southern forests and associated wildlife, details the biology and habitat requirements of species and communities and offers practical guidelines for habitat management on a broad scale. Great for helping land managers assess land suitability for various species and communities, determine how different land and forestry management practices affect wildlife, and actively manage for target species and communities. Features 250 color photos and 156 sketches, graphs, charts and maps. 8.5″ x 11″. 480 Pages. Softcover.

Wildlife of Southern Forests Habitat and Management 3 lbs.		**35898**	**$60.00**

New! Cuddeback® Model E2 Long Range IR Game Camera
4956

Economical and compact, this 20 megapixel game camera features a 1/4-second trigger speed and utilizes an advanced low-light CMOS image sensor for outstanding color and clarity. Long Range IR technology provides over 2 watts of IR illumination with a 100′ flash range. In addition to capturing color images during the day and black/white images at night, the camera records up to 30 seconds of video with audio. Burst Mode captures up to five images per detection, and Zone Control motion sensing lets you select from a centered view or wide view depending on location type. Ideal for monitoring large areas, Advanced Time Lapse Mode features setting selections from 10 seconds to 24 hours (with or without motion sensing) and can be set for day only, night only, or day/night. Centered Subject Technology captures more of a subject in the center of the image, and each image is stamped with time, date, and moon phase information. Using Trophy Room™ software, you can view images on your computer, manage files, and enhance images. The camera uses an SD memory card (2 GB to 64 GB, card not included), and No Card Mode features 120 MB of internal memory. The camera easily attaches to a tree using the Genius Mount system.

Power: 8 AA batteries (not included). **Battery Life:** Up to one year (up to 30,000 images).

Cuddeback Model E2 Long Range IR Game Camera	1 lb.	**91468**	**$150.00**

New! Cuddeback® Model E3 Black Flash® Game Camera
4956

Offering excellent value and a wealth of features, this 20 megapixel game camera boasts a 1/4-second trigger speed and uses an advanced low-light CMOS image sensor to ensure superior color and clarity. Black Flash technology provides over 2 watts of IR illumination power with a flash range of 50′ and produces no visible infrared flash for ultimate stealth. The camera captures color images during the day, black/white images at night, and up to 30 seconds of video with audio. Burst Mode records up to five images per detection, and Zone Control motion sensing features your choice of a centered view or wide view. Advanced Time Lapse Mode offers setting selections from 10 seconds to 24 hours (with or without motion sensing) and can be set for day only, night only, or day/night. Centered Subject Technology enables the camera to capture more of a subject in the center of the image. Each image includes time, date, and moon phase information. Trophy Room™ software allows you to view images on your computer, manage files, and enhance images. The camera uses an SD memory card (2 GB to 64 GB, card not included), and the built-in No Card Mode features 120 MB of internal memory. Attach the camera to a tree using the Genius Mount system.

Power: 8 AA batteries (not included). **Battery Life:** Up to one year (up to 30,000 images).

Cuddeback Model E3 Black Flash Game Camera	1 lb.	**91467**	**$150.00**

Pelican™ Memory Card Case
8613

Protect your memory cards with this durable case! Features include a water-resistant seal, a removable insert liner which absorbs shock, and one extra "plain" liner for custom storage needs. Made of tough Polycarbonate resin.

Dimensions: External, 5.55″ x 3.27″ x 0.85″; Internal, 4.79″ x 2.25″ x 0.55″.

Model 915 Case for SD, mini SD, and micro SD Cards	7 oz.	**35708**	**$22.95**

Multi-Card Reader
7300

Manufacturer's Warranty 2 Year

Transfers documents, videos, photos, and music between memory cards and a personal computer. **Compatible with the following cards:** CompactFlash (CF) Type I, Secure Digital (SD), SDHC (Secure Digital High Capacity), microSDHC, micro SD/TransFlash, MultiMediaCard (MMC), MMCplus, RS-MMC, MMCmobile, Memory Stick (MS), Memory Stick PRO, Memory Stick Duo, Memory Stick PRO Duo, Memory Stick Micro (M2), and Memory Stick PRO-HG Duo. Fully compliant with the Hi-Speed USB 2.0 specification. No external power or battery needed. LED indicates card insertion and data traffic. Two-year manufacturer's warranty.

Multi-Card Reader	4 oz.	**02049**	**$20.95**

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Wingscapes® WildlifeCam®
4840

This motion-activated 8 megapixel camera provides crisp, color photos and videos both day and night using a white flash. A rugged, weatherproof housing protects the camera. Includes mounting bracket, mounting strap, user guide, and focusing aid.

Camera Resolution: 8 megapixels. **Photo Resolution:** Low, 640x480; Medium, 1920x1080; High, 2592x1944; Maximum, 3264x2448. **Video Resolution:** 640x480 (10 fps). **Lens Field of View:** 42 degrees. **Focus Distance:** 6″ to infinity. **Memory Type:** Up to 32 GB SD card (not included). **Power:** Six C cell batteries. **Battery Life:** Average of six months.

Wingscapes WildlifeCam	2 lbs.	**91585**	**$109.95**
8.0 GB SD High Capacity Card	1 oz.	**02516**	**$15.50**
C cell Alkaline Battery, single	3 oz.	**02181**	**$1.85**

Wingscapes® BirdCam Pro® Digital Wildlife Camera
page 387

Wingscapes® TimelapseCam Pro®
4839

Ideal for tracking the progress of projects from beginning to end, this 10 megapixel, high resolution time lapse camera captures images at set intervals. The camera utilizes a white flash for brilliant color photos and videos, day or night. An adjustable lens provides sharp focus on subjects as close as 6″. Quickly preview images on the 2″ color screen, and create time lapse videos with user-friendly software. The weatherproof housing provides excellent protection. Mounting bracket, mounting strap, user guide, and focusing aid included.

Camera Resolution: 10 megapixels. **Photo Resolution:** Low, 1280x720; Medium, 2304x1296; High, 3008x1692; Maximum, 4224x2376. **Video Resolution:** 640x480 (10 fps); 5, 10, 30, or 60 second duration. **Operational Modes:** Auto/time lapse delay, variable, 10 seconds to daily. **Lens Field of View:** 42 degrees. **Focus Distance:** 6″ to infinity. **Memory Type:** Up to 32 GB SD card (not included). **Power:** Six C cell batteries. **Battery Life:** Average of six months.

Wingscapes TimelapseCam Pro	2 lbs.	**91584**	**$149.95**
8.0 GB SD High Capacity Card	1 oz.	**02516**	**$15.50**
C cell Alkaline Battery, single	3 oz.	**02181**	**$1.85**

New! Wingscapes® TimelapseCam
4839

By capturing photos at set intervals, this 8 megapixel time lapse camera allows you to quickly review the progress of a project! Easy-to-use software enables you to create time lapse videos of the images. A tough, weatherproof housing ensures outstanding protection of the camera. Includes mounting bracket, mounting strap, user guide, and focusing aid.

Camera Resolution: 8 megapixels. **Photo Resolution:** Low, 640x480; Medium, 1600x1200; High, 2592x1944; Maximum, 3264x2448. **Operational Modes:** Auto/time lapse delay, variable, 10 seconds to daily. **Lens Field of View:** 42 degrees. **Focus Distance:** 6″ to infinity. **Memory Type:** Up to 32 GB SD card (not included). **Power:** Six C cell batteries. **Battery Life:** Average of six months.

Wingscapes TimelapseCam	2 lbs.	**91583**	**$99.95**
8.0 GB SD High Capacity Card	1 oz.	**02516**	**$15.50**
C cell Alkaline Battery, single	3 oz.	**02181**	**$1.85**

Wingscapes® Accessories
4839

Mounting Arm -
Mounts to any bird feeder pole with an outside diameter of 0.5″ to 1.5″ or to any post, tree, or wall. Connects to the standard tripod mount on the bottom of the camera system. Swivels 360 degrees.

Mounting Arm	2 lbs.	**91544**	**$14.95**

AC Power Adapter -
Features a 6′ cord. For indoor use only.

AC Power Adapter	6 oz.	**91545**	**$15.25**

Solar Power Panel -
Solar panel with built-in 12V battery ensures constant power in the field. Mounts to a tree, pole, or Universal Tripod. Includes 10′ cord.

Solar Power Panel	3 lbs.	**91546**	**$70.25**

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Micro SD, SD and Compact Flash Cards page 408

Master Lock

Master Lock® Python™ Adjustable Locking Cable

7301

This versatile cable lock features a patented locking mechanism that holds the cable tight at any position from 1´ to 6´. The locking cable system is built tough with a 3/8˝ 100% steel braided cable, a rust-resistant aluminum lock body, and a scratch-resistant vinyl cable sleeve and lock body bumper. A Velcro® strap holds excess cable for convenient storage. Choose from keyed alike or keyed different models.

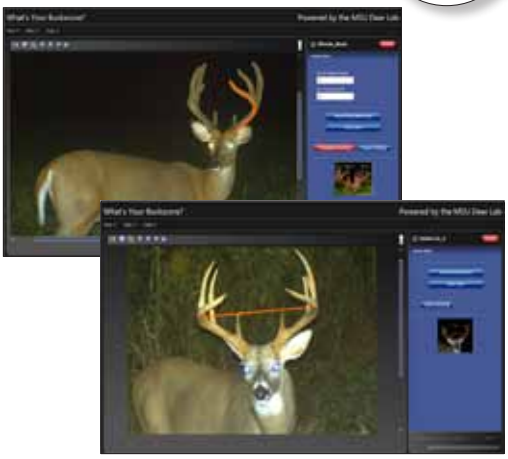
6´ Keyed Alike Locking Cable			
2 lbs.		94752	$25.95
		6+	$23.50
6´ Keyed Different Locking Cable			
2 lbs.		94753	$26.25
		6+	$23.75

Energizer® Lithium Batteries

6163

Provide optimum, long-lasting performance for your high-tech devices.

AA cell Lithium Batteries, 4 pack			
3 oz.		02150	$13.95
		6+	$12.75
AAA cell Lithium Batteries, 4 pack			
2 oz.		02151	$15.50
		6+	$14.25
CR123A, 3V Lithium Battery, single			
1 oz.		91414	$7.50
CR2032, 3V Lithium Battery, single			
1 oz.		02190	$3.50
CR2, 3V Lithium Battery, single			
1 oz.		92490	$8.75



MOULTRIE

New! Moultrie® M-880 Game Camera

2975

Manufacturer's Warranty 1 Year

Using Low-Glow infrared flash technology, the M-880 offers a 100-foot nighttime illumination range and features a 50-foot detection range. An Illumi-Night Sensor provides bright, clear nighttime infrared images, and Motion Freeze technology reduces motion blur. The 8 megapixel camera features a time lapse mode to capture images at preset intervals, boasts a trigger speed of less than one second, and records HD video (720p). Motion detect delay settings limit the number of images recorded in high-traffic situations, helping to extend battery life. Multi-shot mode records multiple images between delay periods using triggered or burst functions. Backlit navigation buttons ensure easy setup even in low-light conditions. Each image includes date, time, temperature, moon phase, and camera ID stamp information. The M-880 features password protection and is backed by a one-year manufacturer's warranty.

SD Memory Card Slot: Up to 32 GB (card not included). **Power:** 8 AA batteries (not included). **Battery Life:** Up to 13,500 images.

Moultrie M-880 Game Camera	2 lbs.	91335	$149.95

Moultrie Mini-Cam Security Box

Helps deter theft and protects the camera from curious animals. Powder-coated steel security box features a Perfect-Fit design to keep the camera firmly in place. Padlock-ready in the front (padlock not included). A security cable (such as a Python™ cable, not included) easily threads through the back. Includes back plate and lag bolts.

Moultrie Mini-Cam Security Box	2 lbs.	91406	$30.75

New! Moultrie® M-990i Game Camera

2975

Manufacturer's Warranty 1 Year

The M-990i uses No-Glow infrared flash technology for "invisible illumination" with a nighttime range of 70 feet. The 10 megapixel camera has a detection range of 50 feet, offers a trigger speed of less than one second, and features a 2˝ color TFT preview screen for convenient aiming, programming, and image review. In addition, the M-990i records HD video (720p) with sound, features a time lapse mode to capture images at preset intervals, and has backlit navigation buttons for fast setup in low-light conditions. Use the motion detect delay settings to limit the number of images recorded in high-traffic situations in order to conserve battery life. Multi-shot mode records multiple images between delay periods using triggered or burst options. Motion Freeze technology reduces motion blur, and each image includes date, time, temperature, moon phase, and camera ID stamp information. The camera features password protection and is backed by a one-year manufacturer's warranty.

SD Memory Card Slot: Up to 32 GB (card not included). **Power:** 8 AA batteries (not included). **Battery Life:** Up to 13,000 images.

Moultrie M-990i Game Camera	1 lb.	91419	$194.95
Moultrie Mini-Cam Security Box	2 lbs.	91406	$30.75

Buckscore Software

7916

Buckscore is an educational and data collection tool for biologists and deer hunters. Developed by scientists and biologists with Mississippi State University's Deer Ecology and Management Lab, it allows users to estimate antler size of photographed white-tailed deer. The software was developed using white-tailed deer from across North America. To use, simply select the state or region in which the deer was photographed and the program accesses a unique set of physical features from that particular area to accurately score your buck.

Buckscore Software	▲	2 oz.	35857	$19.99

▲ Non-returnable if opened

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New! Moultrie® M-550 Game Camera

2975

Manufacturer's Warranty 1 Year

Reliable and affordable, this 7 megapixel game camera captures crisp, clear images day or night. Utilizing Low-Glow infrared nighttime illumination, the camera features a 70-foot flash range and a 50-foot detection range. Images can be taken at preset intervals using time lapse mode, and motion detect delay settings limit the number of images recorded in high-traffic situations to help increase battery life. Multi-shot mode records multiple images between delay periods using triggered or burst functions. The M-550 also records 640 x 480 video, has a trigger speed of less than 1.5 seconds, uses Motion Freeze to reduce blur, and features backlit navigation buttons that make setup easy even in low light. Password protection offers extra security. Each image includes date, time, temperature, moon phase, and camera ID information. Backed by a one-year manufacturer's warranty.

SD Memory Card Slot: Up to 32 GB (card not included). **Power:** 8 AA batteries (not included). **Battery Life:** Up to 17,500 images.

Moultrie M-550 Game Camera	1 lb.	**91445**	**$119.95**

New! Moultrie® Panoramic 150 Game Camera

2975

Manufacturer's Warranty 1 Year

Covers three times the area of a traditional game camera!

This 8 megapixel game camera uses three infrared motion sensors (each with a 50-degree detection zone) to cover a super-wide 150-degree detection area. Once motion is detected, the Silent Slide lens rotates to capture photos or videos in the zone where movement occurred. When the camera is set in panoramic mode, the separate photos taken from each of the three 50-degree zones are stitched together to form a single panoramic image. The camera features five operational modes: 150-degree panoramic camera, infrared-triggered game camera (single image mode), time-lapse plot camera, plot camera by day/motion detect camera at night, and 720p HD video day and night. The Illumi-Night sensor ensures clear nighttime images, and the Low-Glow infrared flash has a range of 100 feet. The camera also features a 45-foot detection range, a trigger speed of less than one second, Motion Freeze blur reduction, and password protection. Each image includes date, time, temperature, moon phase, and camera ID stamp information. Backed by a one-year warranty from the manufacturer.

SD Memory Card Slot: Up to 32 GB (card not included). **Power:** 6 C cell batteries (not included). **Battery Life:** Up to 9,000 images.

Moultrie Panoramic 150 Game Camera	2 lbs.	**91446**	**$219.95**

New! Moultrie® Panoramic 150i Game Camera

2975

Manufacturer's Warranty 1 Year

Combines a super-wide detection area with No-Glow infrared flash technology!

Using three infrared motion sensors, this 8 megapixel game camera provides an impressive 150-degree detection area. The camera also features a No-Glow infrared flash for "invisible illumination" with a nighttime range of 70 feet. When motion is detected, the camera's Silent Slide lens rotates to silently take photos or videos in the 50-degree zone where movement took place. To obtain a wider view, simply use the panoramic mode which captures separate photos from each of the three zones and then stitches the images together to produce a 150-degree panoramic view. The camera features five operational modes: 150-degree panoramic camera, infrared-triggered game camera (single image mode), time-lapse plot camera, plot camera by day/motion detect camera at night, and 720p HD video day and night. An Illumi-Night sensor ensures clear nighttime images, and Motion Freeze reduces nighttime blur. The camera also features a 45-foot detection range, a trigger speed of less than one second, and password protection. Each image includes date, time, temperature, moon phase, and camera ID stamp information. Backed by a one-year warranty from the manufacturer.

SD Memory Card Slot: Up to 32 GB (card not included). **Power:** 6 C cell batteries (not included). **Battery Life:** Up to 9,000 images.

Moultrie Panoramic 150i Game Camera	2 lbs.	**91447**	**$239.95**

"Super Straps" Rubber Tie-Downs

Made in USA

6283

The "Super Strap" is extra thick and strong and has rounded edges with 2-1/2″ S-hooks pre-inserted. Meeting the requirements of even the most demanding tie-down user, these straps come in 15″, 21″, and 31″ lengths and are 1″ wide. Made in the U.S.A.

1″ x 15″ 4 oz.	**35655**	**$1.40**
	50+	**$1.15**
1″ x 21″ 5 oz.	**35656**	**$1.55**
	50+	**$1.30**
1″ x 31″ 7 oz.	**35657**	**$1.90**
	50+	**$1.60**

Master Lock

Master Lock® Bungee Cords

8008

Offering outstanding elasticity and strength, these premium quality stretch cords provide the perfect tie-down solution. A coated twin wire hook allows for secure attachment, and the high density polyethylene coating keeps the hook from marring or scratching surfaces during use. The cords are color-coded for convenient length identification at a glance, and an organizer with a built-in handle is included for easy storage and organization.

15-Count Assortment – Includes six 18″, four 24″, three 32″, and two 40″ cords 4 lbs.	**94696**	**$22.50**
	5+	**$20.50**

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1 New! Bushnell® Trophy Cam™ HD Wireless Trail Camera

4955

Providing up-to-the-minute scouting information, this hassle-free wireless trail camera sends images directly to your smartphone or computer! The camera operates through AT&T's wireless data network using affordable pre-paid plans available from Bushnell. No contract is required, and you'll receive unlimited thumbnail images for the first 30 days. After installing the batteries and an SD card, simply register the camera online and then place it in the location you wish to monitor. A SIM card is included with the camera, and camera settings can be managed remotely through your smartphone or computer. The camera features selectable 3, 5, or 8 megapixel full-color resolution as well as trigger intervals from 1 second to 60 minutes, multi-image mode from 1 to 3 images per trigger, and a PIR sensor that is motion-activated out to 60′. Hyper Night Vision ensures the sharpest, brightest after-dark images, and 32 No-Glow Black LEDs provide a nighttime flash range up to 60′ that is invisible to game. The camera also records 1280x720p HD videos with sound up to 60 seconds in length (video not transmitted wirelessly). Field Scan 2x features two time slots for monitoring dusk and dawn movement of game. The GPS Geotag function automatically embeds GPS coordinates to simplify both tracking game and selecting a camera location. Each image is automatically stamped with day/time, temperature, and moon phase. The weatherproof camera features a 2.4″ color LCD view screen and includes an adjustable web belt.

SD Card Capacity: up to 32 GB (card not included). **Power:** AA batteries (4 or 12, not included). **Battery Life:** up to three months. **Temperature Range:** -5°F to 140°F.

Bushnell Trophy Cam HD Wireless Trail Camera	2 lbs.	**91380**	**$599.99**

2

2 New! Bushnell® Trophy Cam™ HD Trail Camera

7792

In addition to capturing high-quality, full-color images, this 8 megapixel trail camera also records crisp 720p HD video with sound. Hyper Night Vision ensures the sharpest, brightest after-dark images, and 32 LEDs provide a nighttime flash range up to 80′. The Trophy Cam HD boasts a trigger speed of 0.6 seconds, a PIR sensor that is motion-activated out to 60′, and a multi-image mode for capturing one to three images per trigger. Hybrid Capture Mode records both full-resolution images and video simultaneously on every trigger. Field Scan 2x automatically snaps images at preset intervals of one minute to one hour and features two time slots for monitoring dusk and dawn movement. Using the GPS Geotag function, the camera automatically embeds GPS coordinates to simplify both game tracking and camera placement. Each image is automatically stamped with day/time, temperature, and moon phase at the time of capture. The camera features a black-and-white text LCD display, and an adjustable web belt is included.

SD Card Capacity: up to 32 GB (card not included). **Power:** AA batteries (4 or 8, not included). **Battery Life:** up to one year. **Temperature Range:** -5°F to 140°F.

Bushnell Trophy Cam HD Trail Camera	1 lb.	**91378**	**$199.99**
Security Case for Bushnell Trophy Cam	2 lbs.	**91332**	**$31.95**
AA cell Lithium Batteries, 4 pack	3 oz.	**02150**	**$13.95**
		6+	**$12.75**

3

3 New! Bushnell® Trophy Cam™ HD Trail Camera with No-Glow Black LEDs

4778

Ideal for wildlife monitoring or security surveillance, this trail camera utilizes 32 No-Glow Black LEDs that produce no visible flash and provide a 60′ range. A removable anti-reflection cover for the LEDs further minimizes visibility to game and other hunters. The camera features 8 megapixel full-color resolution and also records 720p HD video with sound (up to 60 seconds in length). Hyper Night Vision ensures the sharpest after-dark imagery, and the Hyper PIR motion sensor offers a 60′ range. The camera features a 0.2-second trigger speed, a programmable trigger interval from one second to 60 minutes, and a multi-image mode which captures one to three images per trigger. With Hybrid Capture Mode, images and video are recorded simultaneously on every trigger. Field Scan 2x technology automatically captures images at preset intervals ranging from one minute to one hour within the hours of your choice to monitor dusk and dawn movement. Images are stamped with day/date, temperature, and moon phase. In addition, GPS coordinates can be embedded to easily track game movement and simplify camera placement. The camera features a black-and-white text LCD display. Adjustable web belt included.

SD Card Capacity: up to 32 GB (card not included). **Power:** AA batteries (4 or 8, not included). **Battery Life:** up to one year. **Temperature Range:** -5°F to 140°F.

Bushnell Trophy Cam HD Trail Camera	1 lb.	**91453**	**$229.99**

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Manufacturer's Warranty Limited Lifetime

Yukon® Advanced Optics Ranger 5x42 Digital Night Vision Monocular

7256

This revolutionary digital monocular offers image sharpness and brightness superior to that of traditional night vision devices, features a maximum detection range of 300 yards, and can even be used during the day! The outstanding edge-to-edge resolution rivals that of comparable Generation 2 and Generation 3 devices at any range. Features two independent built-in IR illuminators (for viewing in either ideal conditions or total darkness), direct video output capability for image transmission and video recording, multi-coated optics, rugged Rubber Armor™ construction, and a built-in 1/4″ tripod socket. Carrying case, neck strap, and car and wall AC adapter included. Limited lifetime warranty from the manufacturer.

Sensor Type: CCD Digital NV. **CCD Resolution:** 510x492 pixels. **Magnification:** 5x. **Lens Diameter:** 42 mm. **Field of View:** 4°. **Resolution (typical):** 40 lp/mm. **Focus Range:** 5 yds. to infinity. **Eye Relief:** 12 mm. **Diopter Adjustment:** ±4 dptr. **Detection Distance:** up to 300 yds. **IR Illuminator Effective Distance:** up to 200 yds. **Power:** AC adapter or 6 AA batteries. **Battery Life (without IR):** up to 10 hours. **Operating Temperature:** -4°F to 95°F. **Dimensions:** 6.7″x 4.6″x 3.0″. **Weight:** 28.2 oz. with batteries.

Ranger 5x42 Digital Night Vision Monocular	3 lbs.	**91004**	**$399.99**

Bushnell®

Bushnell® 6x50 Equinox™ Digital Night Vision Monocular

4776

This digital night vision monocular uses a low-light charge-coupled device (CCD) sensor to provide edge-to-edge resolution and image quality equal to or better than Generation 2 analog units at any range. The LCD micro display features two user-selectable viewing modes. Choose the black and white view when some light is available or the traditional green illumination for conditions that are almost dark to completely dark. The monocular features fully multi-coated optics, a wide field of view, a tripod mount, and a rugged, water-resistant housing. A video output port allows for easy connection to video or computer equipment for recording or live monitoring. The built-in accessory mounting rail can be used to attach a laser (for aiming purposes) or other compatible accessories (not included).

Magnification: 6x. **Objective Lens:** 50mm. **Maximum Viewing Range:** 984′. **Field of View:** 23′ at 100 yards. **Power:** Two CR 123 batteries (not included). **Dimensions:** 7.85″x 3.9″x 2.5″. **Weight:** 18.9 oz.

Bushnell 6x50 Equinox Digital Night Vision Monocular	2 lbs.	**91010**	**$489.95**
CR123A, 3V Lithium Battery, single	1 oz.	**91414**	**$7.50**

Morovision MV-300-A Generation 3 Night Vision Monocular

8194

Manufacturer's Warranty 2 Year

This powerful monocular features a high performance ITT Generation 3 64-72 lp image tube for superior viewing. Housed in a weather-resistant, compact body, the monocular also features a high-power multi-stage infrared illuminator, Mil. Spec. optics, and an internal low battery/infrared indicator. Pelican® hard case, soft carrying case, eye cup, one 3-Volt Lithium battery, and operator's manual included. Two-year manufacturer's warranty.

Generation: 3. **Resolution:** 64 to 72 lp/mm (typical). **Magnification:** 1x. **Field of view:** 40°. **Objective lens:** 25 mm f/1.2. **Diopter adjustment:** +2 to -4. **Range of focus:** 10″ to infinity. **Detection range:** 975′. **Recognition range:** 775′. **Operating temperature range:** -4°F to 113°F (-20°C to 45°C). **Power:** 3V Lithium (CR123) battery. **Battery life:** approx. 40 hours. **Weight with battery:** 16 oz. **Dimensions:** 5.5″x 1.8″x 2.5″.

Morovision MV-300-A Ⓡ	2 lbs.	**91305**	**$2992.00**

Night Scout Smart Night Vision Binoculars

5221

Manufacturer's Warranty 2 Year

Made in Russia

Lightweight yet durable.

These Night Scout Smart Binoculars feature computerized proximity sensors which activate when the scope is brought to your eye allowing you to automatically control the unit. These binoculars provide you with true stereo vision thanks to twin 1st Generation light intensifier tubes. Other features include digital controls, a tough dust-and water-resistant aluminum alloy chassis, and adjustable diopters. A neck lanyard, daylight filters, and a padded nylon carrying case are included. Two-year warranty by the manufacturer. Made in Russia.

Magnification: 5x. **Intensifier tube:** high res. 1st Gen+. **Detection range:** 150m. **Recognition range:** 100m. **Light gain:** 35,000 max. **Lens system:** 6 element, F1.2, 90 mm. **Field of view:** 20°. **Diopter adjustment:** ±5. **Resolution:** 40 lp/mm. **Range of focus:** 20′ to infinity. **Controls:** Digital. **Power supply:** two 3 volt lithium batteries (included). **Battery life:** 10 - 20 hours. **Dimensions:** 9″x 6″x 2.4″.

Night Scout Smart Night Vision Binoculars	4 lbs.	**91190**	**$499.00**

Yukon® Advanced Optics Sea Wolf 3x42 Waterproof Night Vision Monocular

8216

This waterproof monocular uses Generation 1 technology to amplify visible light several thousand times and features a maximum detection range of 500 meters. The built-in PULSE infrared illuminator increases the viewing range and enables you to use the unit in low to no light conditions. The PULSE system uses a pulsing frequency invisible to the human eye to provide a high level of infrared illumination while minimizing battery usage. Fully multicoated optics decrease glare and improve light transmission to enhance viewing. Carrying case included. **Power:** 3V Lithium CR123A battery (not included).

Yukon Advanced Optics Sea Wolf 3x42 Waterproof Night Vision Monocular	2 lbs.	**91059**	**$249.99**
CR123A, 3V Lithium Battery, single	1 oz.	**91414**	**$7.50**

Ⓡ Restricted. **Note:** U.S. State Department regulations prohibit the sale of this item outside of the United States. International orders cannot be accepted.

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Mountainsmith® Cyber Camera Case
2914

The main compartment of this case features a zippered top for easy access, and a sleeve pocket provides storage for your spare memory cards. Water-resistant exterior fabric panels offer reliable protection. The versatile case can be worn on a belt or on your shoulder using a detachable strap. Constructed of 500d S-Kodra High Tenacity Nylon 5000mm PU with a 210d liner and Atlilon foam.

Dimensions: Exterior, 5″H x 3.75″W x 2″D; Interior, 4.5″H x 3.25″W x 1.5″D. **Weight:** 3.5 oz.

Mountainsmith Cyber Camera Case
5 oz. **91422** **$21.95**

Mountainsmith® Zoom Camera Case
2917

Designed to accommodate a Micro 4/3 with lens or a kit DSLR, this camera case provides clamshell access to the padded main compartment and features camera carry dividers inside. An accessory pocket under the lid and a front panel accessory pocket offer plenty of storage. The case also features a protective raincover, a removable waistbelt, a detachable shoulder strap, and a lens case attachment point. Constructed of 500d S-Kodra High Tenacity Nylon 5000mm PU with a 210d liner and Atlilon foam.

Dimensions: Exterior, 10.5″H x 7.25″W x 5.5″D; Interior, 10″H x 6.75″W x 5″D. **Weight:** 1 lb. 1 oz.

Mountainsmith Zoom Camera Case
1 lb. **91423** **$54.95**

New! Nikon® Coolpix® AW120 Digital Camera
7915

Incredibly rugged, the AW120 is waterproof to depths of 59 feet, freezeproof to 14°F, and shockproof to drops of 6.6 feet. With a 16 megapixel CMOS image sensor, this camera captures both outstanding still images and full HD 1080p videos with stereo sound. Hybrid VR (Vibration Reduction) combats camera shake and ensures steady, sharp shots. In addition, Target Finding autofocus quickly determines your intended subject to place the focus where it belongs. Motion Detection automatically selects a faster shutter speed and higher ISO to capture clear images of fast-moving subjects. Built-in Wi-Fi® capability enables you to instantly share photos by sending them to any compatible smartphone or tablet. The AW120 also records the exact location of every image you take, and the built-in GPS, mapping capability, and electronic compass help you navigate unfamiliar areas. You can share your journeys using Google Maps™, Google+™, other social networking sites, or the downloadable Nikon View NX2 software. This versatile camera features a 5x optical zoom Nikkor glass lens with a 4.3-21.5mm focal length, Action Control for easy operation even when you're wearing gloves, and a 3″ OLED display with anti-reflection coating and five-level brightness adjustment for excellent image viewing. Includes camera strap, rechargeable Li-ion battery, USB cable, charging AC adapter, and brush.

Resolution: 16.0 megapixels. **Image Size (pixels):** 4,608 x 3,456 (16M). **Storage Media:** SD, SDHC, or SDXC memory cards (not included). **Interface Type:** Hi-Speed USB. **Power Source:** One rechargeable Li-ion battery. **Battery Life:** 350 shots per charge. **Dimensions:** 4.4″W x 2.6″H x 1.0″D. **Weight:** 7.5 oz. with battery and SD memory card.

Nikon Coolpix AW120 Digital Camera 1 lb. **91551** **$349.95**

New! Nikon® D3200™ SLR Digital Camera
7581

This HD-SLR camera features a 24.2-megapixel DX-format CMOS sensor that captures exceptional images even in low light. EXPEED 3 image processing ensures super-fast operation. With the touch of a button, the D3200 also records full HD 1080p video with sound, and you can record in super-smooth slow motion up to 60 frames per second. The AF-S DX Zoom-NIKKOR 18-55mm VR image-stabilized lens offers outstanding clarity and precision. The camera features six Scene Modes and a Scene Auto Selector that automatically selects the most suitable mode for a particular situation. The Scene Recognition System ensures quality images by comparing scene data against an extensive database to optimize the shot accordingly. An informative Guide Mode lets you learn about key features and controls as you use the camera, and you'll even get advice and sample images to help you succeed in the most challenging conditions. In addition, the D3200 features an 11-point autofocusing system, a wide ISO range of 100 to 6400, and a 3″ wide-viewing angle TFT-LCD monitor. Includes rechargeable Li-ion battery, battery charger, USB cable, Audio/Video cable, rubber eyecup, camera strap, body cap, eyepiece cap, accessory shoe cover, and ViewNX 2 CD-ROM.

Resolution: 24.2 megapixels. **Image Area (pixels):** 6016 x 4000 (L), 4512 x 3000 (M), 3008 x 2000 (S). **Storage Media:** SD, SDHC, or SDXC memory cards (not included). **File formats:** NEF (RAW), JPEG, NEF (RAW) + JPEG. **Flash:** Built-in. **Interface Type:** Hi-Speed USB. **Power Source:** One rechargeable Li-ion battery. **Battery life:** 540 shots per charge. **Dimensions:** 5.0″W x 3.8″H x 3.1″D. **Weight:** 1 lb. (camera body only).

Nikon D3200 SLR Digital Camera 4 lbs. **91554** **$596.95**

New! Nikon® D5300™ SLR Digital Camera
7581

The D5300 delivers outstanding image quality with a 24.2-megapixel DX-format CMOS image sensor. A powerful new EXPEED 4 image-processing engine offers incredibly fast operational speeds. The camera records full HD D-movies at 1920x1080 and features a built-in stereo microphone. The AF-S DX Zoom-NIKKOR 18-55mm VR II lens provides excellent clarity and precision. Built-in Wi-Fi® allows the camera to connect with smart devices so that you can immediately share images. In addition, a built-in GPS saves location information as Exif data on images for the easy creation of track logs. Other features include 39 focus points to capture all the action even when your subject isn't in the center of the frame, a Picture Control system to customize the look of your images, 16 Scene Modes, and a standard ISO sensitivity range of 100 to 12800. The 3.2″ vari-angle LCD monitor opens horizontally from 0° to 180° and flips up and down from +180° to -90° to provide the ideal angle for capturing images. Includes rechargeable Li-ion battery, battery charger, USB cable, Audio/Video cable, rubber eyecup, camera strap, body cap, eyepiece cap, accessory shoe cover, and ViewNX 2 CD-ROM.

Resolution: 24.2 megapixels. **Image Area (pixels):** 6000 x 4000 (L), 4496 x 3000 (M), 2992 x 2000 (S). **Storage Media:** SD, SDHC, or SDXC memory cards (not included). **File formats:** NEF (RAW), JPEG, NEF (RAW) + JPEG. **Flash:** Built-in. **Interface Type:** Hi-Speed USB. **Power Source:** One rechargeable Li-ion battery. **Battery life:** 600 shots per charge. **Dimensions:** 4.9″W x 3.9″H x 3″D. **Weight:** 1 lb. (camera body only).

Nikon D5300 SLR Digital Camera 2 lbs. **91589** **$1015.00**

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New! Nikon® Coolpix® S3600 Compact Digital Camera

4730

This compact camera combines the power of a 20.1-megapixel CCD image sensor and an 8x optical zoom NIKKOR glass lens to capture crisp, high-resolution images. Use the 16x Dynamic Fine Zoom function to effectively double the camera's reach for more detailed close-ups. With a press of the dedicated movie button you can also record HD 720p video with sound in widescreen format. The Coolpix S3600 offers 18 scene modes, Target Finding Autofocus to instantly focus on your intended subject, and a Smart Portrait System offering several portrait-optimizing features. For added simplicity, you can allow the Scene Auto Selector to automatically choose the best camera mode for a particular shot. The camera also features a 2.7″ high-resolution TFT-LCD monitor with anti-reflection coating and five-level brightness adjustment. Includes rechargeable Li-ion battery, AC adapter/charger, USB cable, strap, and software CD-ROM.

Resolution: 20.1 megapixels. **Image Size (pixels):** 5152 x 3864. **Storage Media:** SD, SDHC, or SDXC memory cards (not included). **I/O Terminal:** Audio/video output; Digital I/O (USB). **Power Source:** Rechargeable Li-ion battery. **Battery life:** Approximately 230 shots per charge. **Dimensions:** 3.9″W x 2.3″H x 0.8″D. **Weight:** 4.5 oz.

Nikon Coolpix S3600 Compact Digital Camera	14 oz.	**91519**	**$139.95**

New! Ricoh WG-4 Waterproof Digital Camera

4719

Built to withstand rugged conditions, this 16 megapixel camera is waterproof to 45 feet, shockproof to drops up to 6.5 feet, crushproof to weights up to 220 LBF (pound-force), cold-resistant to 14°F (-10°C), and dustproof! The optical 4x zoom lens provides a high performance, large aperture of F2.0. A backlit CMOS sensor and new-generation imaging engine deliver a top sensitivity of ISO 6400. The camera's triple shake reduction system combines an image-sensor-shift-type Shake Reduction mechanism with digital Pixel Track and high ISO Shake Reduction modes. Six LED Macro Lights around the circumference of the lens barrel ensure bright, uniform macro illumination. The high-resolution 3″ color LCD monitor with approximately 460,000 dots allows for excellent viewing. The WG-4 also captures full HD video in widescreen 1080p resolution (1920x1080) with high quality h.264 compression at 30 frames per second. Offering Shutter Priority mode and User mode, the WG-4 boasts a total of 29 shooting modes. Rechargeable Li-Ion battery, power adapter, USB cable, carabiner strap, and software included.

Resolution: 16 megapixels. **Recorded Resolution:** Still, 16M (4608x3456); Movie HD (1920x1080p30, 1280x720p60/30), VGA (640x480). **Storage Media:** Approximately 70 MB internal memory; SD, SDHC, and SDXC memory card removable (memory card not included). **File Formats:** Still – JPG (EXIF 2.3), DCF 2.0, DPOF, PIM III; Movie (compression) – MP4 (AVC h.264); Sound – WAV (PCM), 32 KHz, 16 bit stereo. **Flash:** Auto, on, off, redeye reduction. **Interface Type:** USB 2.0 hi-speed, USB/AV out, HDMI (Micro, Type-D). **Power Source:** Rechargeable Li-Ion D-LI92 battery. **Dimensions:** 4.9″W x 2.5″H x 1.3″D. **Weight:** Standard WG-4, 7.4 oz. without battery and SD memory card, 8.1 oz. loaded and ready; WG-4 GPS, 7.6 oz. without battery and SD memory card, 8.3 oz. loaded and ready.

Ricoh WG-4 Waterproof Digital Camera	2 lbs.	**91552**	**$329.95**
Ricoh WG-4 Waterproof Digital Camera with GPS	2 lbs.	**91553**	**$379.95**

SeaLife® DC1400 Underwater Digital Camera

1 Manufacturer's Warranty 1 Year

7328

Capture sharp, clear pictures both in and out of the water!

Depth tested to 200 feet, this 14 megapixel waterproof digital camera delivers sharp, high-resolution images both on land and underwater. The camera's Easy Set-up mode provides an on-screen guide that takes the guesswork out of set-up. The DC1400 features 4 special underwater modes for perfect photos in any water setting and 11 land modes to pre-set the camera depending on the type of scene. Spy mode allows you to take continuous pictures at set time intervals to capture the perfect shot of hard-to-photograph subjects. The ergonomic design and large shutter button make the camera easy to handle and use. Other features include auto focus to 2″, 25x zoom (5x optical plus 5x digital zoom), a 3″ LCD display, a self-timer, 640x480 video mode with sound, and rubber armored housing for rugged shock protection. Compatible with SD and SDHC data cards up to 32GB. One-year manufacturer's limited warranty.

Resolution: 14 megapixels. **Power Source:** rechargeable lithium battery (included). **Dimensions:** 2.3″H x 3.6″W x 1.1″D (inner camera); 3.5″H x 5.5″W x 3.4″D (housing). **Weight:** 16.6 oz. (housing and inner camera).

SeaLife DC1400 Underwater Digital Camera	3 lbs.	**91354**	**$499.95**

Transcend Micro SD, SD and Compact Flash Memory Cards

8180

Micro SD Memory Card

Tiny size, better performance and impressively fast data transfer speeds, make these microSD cards the perfect choice of Memory Card for use in the next generation of electronic devices.

2 GB Micro SD Card 3 oz.	▲	**02512**	**$12.95**

SD Memory Card

The best choice for high-performance results from your digital camera and other handheld devices. 133 speed cards.

Transcend 2.0 GB SD Card 4 oz.	▲	**02513**	**$27.25**

SD High Capacity Memory Card

Based on the new generation of SD cards (SD 2.0) that support the FAT32 file system format. Fully Class 6 compliant. Compatible with all SDHC-labeled host devices (not compatible with standard SD). SD devices that do not specifically support SDHC are not compatible.

8.0 GB SD High Capacity Card 1 oz.	▲	**02516**	**$15.50**

CompactFlash (CF) Memory Card

Ultra 133X CompactFlash memory cards are the best choice for use in high-resolution digital cameras and other high-performance devices.

2.0 GB CF Card 3 oz.	▲	**02510**	**$22.95**

Please call for latest pricing.

▲ Note: Non-returnable if opened or seal is broken.

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1

1 New! Nikon® Monarch 7 Binoculars

4959

Manufacturer's Warranty 25 Year

These binoculars deliver bright, clear views thanks to Extra-low Dispersion glass, dielectric high-reflective multilayer prism coating, and fully multicoated lenses. A wide field of view, close-focus capability, and comfortable eye relief also ensure a superior viewing experience. The scratch-resistant coating on the outside surfaces of the objective and eyepiece lenses provide outstanding durability. Additional features include a smooth central focus knob, multi-setting click-stop eyecups, precision-aligned optics, flip-down objective lens covers, rubber-armored coating, and a slim, lightweight design. Waterproof up to 1 meter and fog-free with O-ring seals and nitrogen gas. 25-Year limited warranty from the manufacturer.

8x42	2 lbs.	**91562**	**$479.95**
10x42	2 lbs.	**91557**	**$499.95**

2

2 Nikon® Monarch 5 Binoculars

4782

Manufacturer's Warranty 25 Year

Designed for superior optical performance in all conditions! These rugged binoculars feature Extra-low Dispersion glass lenses that correct chromatic aberrations to ensure clear viewing. Multilayer coatings on the lenses and prism surfaces provide excellent light transmittance over the entire visible light spectrum to produce brighter images and more natural colors. Multi-setting, click stop eyecups allow you to adjust the eye relief for a full field of view and maximum comfort during extended periods of use. Other features include a smooth central focus knob and flip-down objective lens covers. Waterproof and fogproof, the binoculars feature a rubber-armored coating and are nitrogen-filled and O-ring sealed.

8x42	2 lbs.	**91578**	**$308.25**
10x42	2 lbs.	**91579**	**$329.95**
12x42	2 lbs.	**91580**	**$349.95**

3

3 Nikon® Monarch® 3 ATB Binoculars

2447

Manufacturer's Warranty 25 Year

Combining fully multicoated Eco-Glass lenses and phase-correction coated prisms, these binoculars provide bright, high-resolution views. Other features include a smooth central focus knob, long eye relief, multi-setting click stop eyecups, and flip-down objective lens covers. Lightweight yet durable, the waterproof/fogproof binoculars have a tough rubber-armored coating. 25 Year Limited Warranty from the manufacturer.

Monarch 3 8x42	2 lbs.	**91442**	**$229.95**
Monarch 3 10x42	2 lbs.	**91443**	**$249.95**

4

4 Nikon® StabilEyes VR Image Stabilizing Binoculars

2661

Manufacturer's Warranty 25 Year

These binoculars offer rock steady, high magnification viewing thanks to a gimbaled servo system which provides a view that is unaffected by shake or vibration. In addition, the 14x40 model's dual mode allows for stable viewing even when panning or tilting. All lenses are fully multicoated, and prisms are phase-correction coated for the ultimate in brightness and resolution. Totally waterproof, fogproof, and shockproof, the StabilEyes also feature convenient central focus and adjustable diopter to correct for vision imbalance. 25 Year Limited Warranty from the manufacturer.

Nikon 14x40 StabilEyes VR Image Stabilizing Binocular	3 lbs.	**91179**	**$1799.95**

Nikon® Binoculars Specifications

	Monarch 7		Monarch 5			Monarch 3 ATB		StabilEyes
	8x42	10x42	8x42	10x42	12x42	8x42	10x42	14x40
Magnification	8x	10x	8x	10x	12x	8x	10x	14x
Objective Lens Dia.	42mm	42mm	42mm	42mm	42mm	42mm	42mm	40mm
Field at 1,000 yds.	420′	351′	330′	288′	261′	330′	299′	209′
Relative Brightness	28.1	17.6	28.1	17.6	12.3	28.1	17.6	—
Exit Pupil	5.3mm	4.2mm	5.25 mm	4.2 mm	3.5 mm	5.3mm	4.2mm	2.9mm
Close Focus	8.2′	8.2′	7.8′	7.8′	7.8′	9.8′	9.8′	16.4′
Power (included)	—	—	—	—	—	—	—	4 AA
Waterproof			Yes	Yes	Yes	Yes	Yes	
Weight	22.9 oz.	23.6 oz.	20.8 oz.	21.6 oz.	21.6 oz.	24.9 oz.	24.7 oz.	45.8 oz.
Length	—	—	—	—	—	—	—	7.3″

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1 New! Nikon® ProStaff 5 Binoculars
4960

Manufacturer's Warranty 25 Year

Dependable and rugged, these binoculars feature multilayer coatings on the lens and prism surfaces to provide higher light transmittance across the entire visible light spectrum. Using the smooth central focus knob, you can quickly focus on subjects close-up or at a distance. Turn-and-slide, multi-click rubber eyecups enable you to adjust the eye relief, ensuring a full field of view and superior comfort even during extended periods of use. The lightweight yet durable body is constructed of fiberglass-reinforced polycarbonate resin. Nitrogen-filled and O-ring sealed for waterproof and fogproof protection. 25-Year limited warranty from the manufacturer.

8x42	2 lbs.	**91558**	**$159.95**
10x42	1 lb.	**91559**	**$179.95**
10x50	2 lbs.	**91560**	**$199.95**
12x50	2 lbs.	**91561**	**$219.95**

1

2 New! Nikon® ProStaff 7S Binoculars
7798

Manufacturer's Warranty 25 Year

Lightweight and easy to hold, these binoculars feature fully multicoated Eco-glass lenses and phase-correction coated roof prisms that offer superior brightness and resolution. Turn-and-slide rubber eyecups let you adjust the eye relief for a custom fit to provide a full field of view and maximum comfort during extended periods of use. In addition to a rubber-armored housing, the binoculars are nitrogen-filled and o-ring sealed to ensure waterproof and fogproof performance. 25-Year limited warranty from the manufacturer.

8x42	1 lb.	**91391**	**$189.95**
10x42	1 lb.	**91392**	**$199.95**

2

3 Nikon® ProStaff™ Waterproof ATB Compact Binoculars
4401

Manufacturer's Warranty 25 Year

Waterproof, fogproof, and shockproof, these compact binoculars are nitrogen-filled and o-ring sealed for superior durability and excellent optical performance. The aspherical eyepiece lenses offer a clear, distortion-free field of view and long eye relief for eyeglass wearers. The exclusive Eco-Glass lenses and prisms are lighter than typical optical glass and also provide outstanding viewing performance. Other features include turn-and-slide eyecups and a rubber armored polycarbonate body for a sure grip. 25 year warranty from the manufacturer.

8x25	1 lb.	**91491**	**$161.50**
10x25	1 lb.	**91492**	**$174.75**
12x25	1 lb.	**91493**	**$180.95**

3

4 Nikon® Aculon A211 Binoculars
4640

Manufacturer's Warranty 25 Year

These versatile binoculars feature aspherical eyepiece lenses that provide a flat field of view, and multicoating on the lenses enhances image brightness. The BaK4 porro prism system ensures excellent image quality in a variety of lighting conditions. The environmentally-friendly Eco-Glass™ lenses feature a lead-free, arsenic-free glass composition. Turn-and-slide rubber eyecups allow for easy positioning of the eyes at the correct eye-point, and the smooth central focus knob makes viewing adjustments easy. The binoculars feature an ergonomic design and a durable rubber-armored body coating for a non-slip grip. 25-year limited warranty from the manufacturer.

7x35	2 lbs.	**91570**	**$79.95**
8x42	2 lbs.	**91571**	**$89.95**
New 10x42	2 lbs.	**91576**	**$99.95**
10x50	3 lbs.	**91572**	**$119.95**
12x50	3 lbs.	**91573**	**$129.95**
16x50	3 lbs.	**91574**	**$139.95**

4

Nikon® Binoculars Specifications

	New! ProStaff 5				New! ProStaff 7S		ProStaff ATB Compact			Aculon A211					
	8x42	10x42	10x50	12x50	8x42	10x42	8x25	10x25	12x25	7x35	8x42	10x42	10x50	12x50	16x50
Magnification	8x	10x	10x	12x	8x	10x	8x	10x	12x	7x	8x	10x	10x	12x	16x
Objective Lens Dia.	42mm	42mm	50mm	50mm	42mm	42mm	25mm	25mm	25mm	35mm	42mm	42mm	50mm	50mm	50mm
Field At 1,000 Yards	330′	283′	293′	246′	357′	324′	330′	262′	220′	488′	420′	314′	341′	272′	220′
Relative Brightness	28.1	17.6	25.0	17.6	28.1	17.6	9.8	6.3	4.3	25	12	17.6	25	17.6	9.6
Exit Pupil	5.3mm	4.2mm	5.0mm	4.2mm	5.3mm	4.2mm	3.1mm	2.5mm	2.1mm	5mm	5.3mm	4.2mm	5mm	4.2mm	3.1mm
Close Focus	16.4′	16.4′	16.4′	16.4′	13.1′	13.1′	9.1′	9.1′	9.1′	16.4′	16.4′	16.4′	23′	26.2′	29.5′
Waterproof							Yes	Yes	Yes						
Weight	22.8 oz.	22.9 oz.	28.7 oz.	27.9 oz.	22.9 oz.	22.7 oz.	12.5 oz.	12.8 oz.	12.8 oz.	24.2 oz.	26.8 oz.	26.8 oz.	31.7 oz.	32.1 oz.	32.6 oz.

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Mountainsmith® Trekker FX 7075 Monopod/Trekking Pole
2916

Durable and versatile, this aluminum monopod features a 1/4-20 SAE threaded bolt for easy attachment of a camera (3 lb. carry weight capacity). The three-section monopod telescopes from 28˝ to 54˝ and utilizes twist-lock Double Cam adjustment and a spring-loaded anti-shock system with twist lock-out. Also features a removable hiking basket with locking pin, a rubber boot tip, a molded EVA handle, and an adjustable wrist strap.

Mountainsmith Trekker FX 7075 Monopod/Trekking Pole	10 oz.	**35404**	**$29.95**

Transcend SD and CF Memory Cards pages 408 and 417

Bushnell®

1

2

3

1 Bushnell® ImageView® Digital Imaging Binocular
2790

Combining the superior magnification and stunning clarity of a binocular with a 1.3 megapixel digital camera, the ImageView allows you to capture the images that you see! BK-7 optical prism glass and fully-coated lenses ensure sharp images. Features an SD card slot (32 GB capacity), tripod socket, remote shutter cable, USB port, and USB cable. **Power:** 2 AAA batteries.

Bushnell ImageView Digital Imaging Binocular	1 lb.	**91173**	**$97.25**
Transcend 2.0 GB SD Card	4 oz.	**02513**	**$27.25**
AAA cell, pack of 4	2 oz.	**02362**	**$3.25**

2 Bushnell® Marine™ Binoculars
2323

From fog, rain and ice to salt water exposure, Bushnell Marine binoculars deliver clear images in even the most foul weather conditions. Nitrogen-purged for reliable waterproof and fogproof performance, they are hermetically sealed, and just in case they're accidentally dropped in the water, they float! Other features include BAK-4 prisms, multi-coated optics and large UV coated objective lenses for bright images from dusk-to-dawn. Easy-grip rubber armoring protects and provides a secure hold - even when wet. Also available with a compass that illuminates without obstructing the field of view and allows you to establish headings as you continue to scan the horizon for markers and hazards.

7x50 with Individual Focus	3 lbs.	**91384**	**$178.25**
7x50 with Illuminated Analog Compass	4 lbs.	**91131**	**$217.75**

3 Bushnell® Legacy WP Binoculars
5211

Sleek, ergonomically designed, standard binoculars are ideal for a wide range of viewing. The optical glass is coated with magnesium fluoride to reduce light loss and glare due to reflection and is multi-coated to further enhance vision and reduce eye fatigue. Other features include BAK-4 porro prisms, soft rubber armoring, and twist-up eyecups. Waterproof (except for 91144 which is weatherproof) and fogproof. Case and neck strap included.

Bushnell® Legacy WP 8x42 Wide Angle

With their comfortable size and weight, these wide angle 8x42 binoculars are great for taking a closer look. Features optimum balance of magnification, brightness, and field of view.

Legacy WP 8x42 Wide Angle	2 lbs.	**91120**	**$113.75**

Bushnell® Legacy WP 10x50 Wide Angle

See long distance detail with a crisp, clear view using these wide angle binoculars. With a magnification of 10x50, these binoculars deliver the greatest magnification practical for hand-held viewing. Features high light gathering objective lenses for needed brightness.

Legacy WP 10x50 Wide Angle	2 lbs.	**91127**	**$129.25**

Bushnell® Legacy WP 10-22x50 Zoom

Features outstanding zoom versatility and extreme viewing power!

Legacy WP 10-22x50 Zoom	3 lbs.	**91144**	**$177.25**

Bushnell® Binoculars Specifications

		Marine	With Compass	Legacy WP		
	ImageView	7x50	7x50	8x42	10x50	10-22x50 Zoom
Magnification	10x	7x	7x	8x	10x	10-22x
Objective Lens Dia.	25mm	50mm	50mm	42mm	50mm	50 mm
Field at 1,000 yds.	290´	380´	350´	430´	341´	199´ at 10x; 66´ at 22x
Close Focus	12´	—	—	12ft/3.6m	18ft/5.5m	20ft/6m
Exit pupil	2.5mm	7.1mm	7.1mm	5.3 mm	5mm	5 mm
Eye Relief	10	—	—	18	18	14
Prism System	Roof	Porro	Porro	Porro	Porro	Porro
Weight	10 oz.	36 oz.	37 oz.	26.5 oz.	30.5 oz.	34.2 oz.

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Bushnell®

1 New! Bushnell® Excursion® HD Binoculars
4120

Ideal for long-range observation, these binoculars feature a class-leading, wide field of view! Fully multi-coated optics and high-performance BaK-4 prisms with PC-3® Phase Coating ensure bright, clear images from edge to edge. Additional features include a locking focus wheel, an open bridge design, twist-up eyecups, and a soft-touch thumb grip. Durable rubber armoring provides a sure hold, and the binoculars are 100% waterproof and fogproof.

8x42	2 lbs.	**91587**	**$179.00**
10x42	2 lbs.	**91588**	**$199.00**

1

2 Bushnell® NatureView® Binoculars
4721

With a trim, well-balanced design, these binoculars are perfect for birding and wildlife observation! The BaK-4 roof prisms provide crisp, clear views, and the fully multi-coated optics ensure outstanding light transmission and brightness. A textured center-focus knob allows for precise focus adjustments, and the rugged, non-slip rubber armor body absorbs shock. Waterproof/fogproof construction.

Bushnell NatureView 8x42 Binoculars	2 lbs.	**92478**	**$145.95**
Bushnell NatureView 10x42 Binoculars	2 lbs.	**92479**	**$162.95**

2

3 Bushnell® PermaFocus® Binoculars
8415

With these binoculars, you'll always be ready to clearly view what's around you – no focus adjustment necessary! The focus-free feature keeps the binocular dialed in for instantaneous viewing at almost any distance. The precision-crafted, fully-coated optics offer outstanding light transmission and brightness, and the non-slip rubber armor absorbs shock and provides a sure grip. **Close Focus:** Focus-free models are designed for viewing distant objects. The close focus limit is subjective and dependent on the user's eyesight.

7x35 – Mid-sized for good magnification at mid-range.

Bushnell PermaFocus 7x35	2 lbs.	**91260**	**$71.25**

7x50 – Full-sized and full-featured for increased brightness at long distances.

Bushnell PermaFocus 7x50	2 lbs.	**91259**	**$76.50**

10x32 – Mid-size, roof prism binoculars.

Bushnell PermaFocus 10x32	1 lb.	**91267**	**$62.95**

10x42 – Streamlined, roof prism binoculars.

Bushnell PermaFocus 10x42	2 lbs.	**91268**	**$88.95**

10x50 – Full-sized and full-featured for increased brightness at long distances.

Bushnell PermaFocus 10x50	2 lbs.	**91261**	**$77.50**

12x50 – Full-sized and full-featured for increased brightness at long distances.

Bushnell PermaFocus 12x50	2 lbs.	**91258**	**$88.50**

3

4 Bushnell® Legend™ Binoculars
4476

RAINGUARD®

With fully multi-coated optics and crystal clear BaK-4 glass prisms, these binoculars deliver crisp, colorful, clear images. In addition, the patented RainGuard® water-repellent lens coating keeps lenses fogproof. Twist-up eyecups provide quick adjustment for optimum eye relief, the knurled diopter adjustment allows for precise adjustments, and a large center focus knob makes focusing easy – even when wearing gloves! The solid, rubber-armored design features o-ring seals and is nitrogen-purged for complete protection from the elements.

Bushnell Legend Ultra HD 10x42	4 lbs.	**91527**	**$283.95**

4

Bushnell® Binoculars Specifications

	Excursion HD		NatureView		Perma Focus						Legend
	8x42	10x42	8x42	10x42	7x35	7x50	10x32	10x42	10x50	12x50	10x42
Magnification	8x	10x	8x	10x	7x	7x	10x	10x	10x	12x	10x
Objective Lens Dia.	42 mm	42 mm	42 mm	42 mm	35mm	50mm	32 mm	42 mm	50mm	50mm	42mm
Close Focus	6.5′	6.5′	—	—	—	—			—	—	—
Field at 1,000 yds.	426′	341′	393′	325′	578′	372′	294′	305′	393′	265′	340′
Exit Pupil	5.3 mm	4.2 mm	6 mm	4.2 mm	5mm	7.1mm	3.2 mm	4.2 mm	5mm	4.2mm	4.2mm
Eye Relief	17.2 mm	15.5 mm	—	—	12	20	12	14	14	9	—
Prism System	Roof	Roof	Roof	Roof	Porro	Porro	Roof	Roof	Porro	Porro	Roof
Weight	24.3 oz.	23.5 oz.	23.1 oz.	23.1 oz.	22.5 oz.	27.2 oz.	14.1 oz.	18.8 oz.	31 oz.	31 oz.	22.5 oz.

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PENTAX

1

Manufacturer's Warranty Lifetime

1 Pentax® "Porro Prism" Zoom Binoculars (UCF Zoom II)

4558

8-16x21 mm

Easy to handle and use, this 8-16x21 mm binocular features a central fingertip control for focus, locking diopter, and zoom control. Fully multi-coated optics eliminate harmful UV rays while also improving light transmission to produce high contrast images with no glare or flare. The BAK-4 prisms transmit more light at the edges for easier viewing in dim light. The binocular's dual-axis, single body housing with synchronized eyepiece adjustment provides correct optical alignment for ultimate comfort during use. Durable black rubber housing protects against dust and scratches. Backed by a lifetime "worry-free" warranty from the manufacturer.

UCF Zoom II 8-16x21 mm	1 lb.	**91172**	**$134.95**

2

Manufacturer's Warranty Lifetime

2 Pentax® "Porro Prism" Mini Binoculars (UCF R)

6786

This pocket-size, porro-prism binocular offers ultimate portability! Features a dual-axis eye-distance adjustment system, pop-up diopter adjuster, high-refraction BAK-4 glass prisms, aspherical lens elements, and durable rubber housing. Backed by a lifetime "worry-free" warranty from the manufacturer.

UCF R - 8x21 mm	12 oz.	**91197**	**$69.95**

3

Manufacturer's Warranty Lifetime

3 Pentax® "Porro Prism" Binoculars (PCF WP II)

6785

These porro-prism waterproof binoculars feature center focusing and a mechanical focus lock which allows you to lock in at a specific distance for focus-free viewing. The high-performance BAK-4 prisms provide bright, clear images. Features click stop diopter adjustment lock in right eyepiece, Super-Multi Coated lenses for glare reduction and elimination of harmful UV rays, slide-style rubber eyecups, and an ergonomic design. Backed by a lifetime "worry-free" warranty from the manufacturer.

PCF WP II - 8x40 mm	3 lbs.	**91363**	**$179.95**
PCF WP II - 10x50 mm	3 lbs.	**91364**	**$215.00**
PCF WP II - 12x50 mm	3 lbs.	**91365**	**$225.00**

4

Manufacturer's Warranty Lifetime

4 Pentax® "Roof Prism" Binoculars (DCF CS)

7578

Sleek, high-tech design. Helicoid eyepieces with four click stops allow you to properly set eye relief. Silver-deposited roof prisms reflect more light through the prism for a brighter image. Inner-focus optical design provides improved sealing and balance. Full rubber housing protects the binoculars from shock and provides a sure grip. Submersible to a depth of 1m. Backed by a lifetime "worry-free" warranty from the manufacturer.

DCF CS – 8x42 mm	2 lbs.	**91352**	**$299.00**
DCF CS – 10x42 mm	2 lbs.	**91353**	**$319.00**

Pentax® Binoculars Specifications

	UCF Zoom II	Mini (UCF R)	PCF WP II			DCF CS	
	8-16x21 mm	8x21 mm	8x40 mm	10x50 mm	12x50 mm	8x42 mm	10x42 mm
Magnification	8-16x	8x	8x	10x	12x	8x	10x
Objective Lens Dia.	21 mm	21 mm	40 mm	50 mm	50 mm	42 mm	42 mm
Field @ 1,000 yds.	261′ (8x), 156′ (16x)	324′	330′	261′	219′	393′	315′
Exit Pupil	2.6 mm, 1.3 mm	2.6 mm	5.0 mm	5.0 mm	4.2 mm	5.2 mm	4.2 mm
Close Focus	9.8′	9.8′	11.6′	18.2′	18.2′	8.2′	8.2′
Height	4.4″	3.4″	5.5″	7.0″	7.0″	5.28″	5.28″

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1 Steiner® 8x30 Military/Marine Binoculars
6775

Steiner's famous military design at an affordable price!

Manufacturer's Warranty 10 Year

Lightweight, yet rugged, binoculars provide excellent magnification. Features long eye relief for eyeglass wearers, making view sharp from 20 yards to infinity. No readjustment necessary.

Steiner 8x30 Military/Marine Binoculars	2 lbs.	**91095**	**$249.99**

2 New! Steiner® Predator Binoculars
4661

Manufacturer's Warranty Lifetime

Using high-contrast CAT™ (Color Adjusted Transmission) lens technology, the Predator delivers bright, crisp images. The CAT lens coating filters layers of incoming light to provide bold color contrast between subjects and their surroundings. A Fast-Close-Focus™ knob allows for quick, smooth focus adjustments even if you're wearing gloves. Ergonomic eyecups with side guards offer brighter images by blocking incidental light and also adjust to provide optimal eye relief for people wearing eye glasses. The N2 Injection™ system seals 14-psi pressurized dry nitrogen into the optic system to ensure fogproof clarity. Waterproof and durable, the binoculars feature a Makrolon® housing constructed of polycarbonate and NBR Long Life rubber armoring to create a lightweight yet rugged chassis.

8x42 Predator	3 lbs.	**91555**	**$379.99**
10x42 Predator	3 lbs.	**91556**	**$399.99**

3 Leupold® BX-1 Yosemite® Binoculars
2446

Manufacturer's Warranty Limited Lifetime

Designed to provide a wide range of interpupillary adjustment (50mm to 70mm), these binoculars offer a universal fit without sacrificing optical quality. The advanced lens system features fully multi-coated lenses that provide optimal brightness, resolution, contrast, and color fidelity. A generous field of view makes tracking easy. Long eye relief allows for comfortable extended viewing, even while wearing eyeglasses. Waterproof, armor-coated design. Manufacturer's limited lifetime warranty.

Yosemite 6x30	2 lbs.	**91535**	**$115.00**
Yosemite 8x30	2 lbs.	**91536**	**$135.00**

4 Leupold® BX-2 Cascades® Binoculars
2445

Manufacturer's Warranty Limited Lifetime

Offering excellent low-light performance, these binoculars are ideal for use in early morning or late evening. Phase-coated BAK4 roof prisms provide crisp, sharp images, and a fully multi-coated lens system ensures high light transmission in a variety of conditions. Long eye relief and twist-up eyecups allow for easy viewing, even with eyeglasses. Designed with comfort in mind, the slim, ergonomic in-line design offers a natural fit for all sizes of hands. Impact-resistant aluminum body with rubber armor coating is 100% waterproof and fogproof. Manufacturer's limited lifetime warranty.

Cascades 8x42	2 lbs.	**91528**	**$340.00**
Cascades 10x42	2 lbs.	**91529**	**$350.00**

STEINER GERMANY

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LEUPOLD

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Binoculars Specifications

	Steiner Binoculars			Leupold Binoculars			
	Military/Marine	Predator		BX-1 Yosemite		BX-2 Cascades	
	8x30	8x42	10x42	6x30	8x30	8x42	10x42
Magnification	8x	8X	10x	6x	8x	8x	10x
Objective Lens Diameter		42mm	42mm	30mm	30mm	42mm	42mm
Field @ 1,000 yards	390′	381′	328′	420′	389′	341′	267′
Angular field of view				8.0°	7.4°	6.5°	5.1°
Close Focus	60′	6′	6′	10.0′	11.0′	9.9′	9.9′
Exit Pupil		5.25mm	4.2mm	4.6mm	3.4mm	5.3mm	4.2mm
Eye relief				18.5mm	15.5mm	18.0mm	16.0mm
Weight	18 oz.	26.1 oz.	26.5 oz.	17.0 oz.	17.0 oz.	22.9 oz.	23.1 oz.
Length				4.6″	4.5″	5.5″	5.5″
Warranty	10 year	Lifetime	Lifetime	Limited Lifetime	Limited Lifetime	Limited Lifetime	Limited Lifetime

Rite in the Rain® Birder's Field Book
5192

Designed to keep up with birding enthusiasts, from the backyard bird watcher to the active birder. Each book has a durable side spiral binding and polyethylene cover. Inside, the book has helpful reference guides and plenty of space for sketching and field notes. Measures 4-5/8″ x 7″. 32 Leaves.

No. 195, Birder's Field Notebook 4 oz.		**61055**	**$8.95**
		12+	**$7.95**

Carson® Stuff-It™
8593

Perfect for cleaning binoculars, spotting scopes, telescopes, cameras, eyeglasses, and more!

This super-soft microfiber lens cloth is housed in a protective pouch that keeps the cloth clean, dry, and always ready for use. When not being used, simply pull the drawstring to retract the cloth and then stuff it securely inside the pouch. Safe for use on all lenses.

Carson Stuff-It 1 oz.		**91193**	**$4.25**

Slide and Flex Bino-System
6986

Elastic straps hold binoculars comfortably and securely to your chest when not in use and allow binoculars to easily slide up and flex out when you're ready to use them. The weight of the binoculars is supported by your shoulders, not your neck. This fully-adjustable system works for all sizes of binoculars, as well as cameras and range finders. **Color:** Black.

Slide and Flex Bino-System 5 oz.		**91086**	**$19.95**

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Bushnell

1 Bushnell® Trophy® Spotting Scope

7789

This all-weather spotting scope features premium fully multi-coated optics and zoom magnification up to 60x. The scope features a porro-prism design and 100% waterproof rubber armor construction. Includes compact tripod, premium hard-side case, and compact soft-side case.

Magnification: 20x to 60x zoom. **Field of view @ 1,000 yards:** 110′ to 55′. **Objective Lens Diameter:** 65mm. **Close Focus Distance:** 32.8′. **Exit Pupil:** 3.25mm at 20x; 1.1mm at 60x. **Eye Relief:** 18.3mm. **Approximate Length:** 13.4″. **Approximate Weight:** 42.3 oz.

20-60 x 65mm Trophy Spotting Scope	8 lbs.	**59991**	**$272.00**

2 Bushnell® 12-36 x 50mm Sentry Compact

5231

Manufacturer's Warranty Lifetime

This 12-36 x 50mm ultra-compact spotting scope features multi-coated optics for increased light transmission and clarity, a quick-zoom eyepiece for close-up observation, and a rubber armor housing that absorbs shock. Includes compact tripod, car window mount, scope glove, soft-side carrying case, and hard-side carrying case. Manufacturer's lifetime warranty.

Magnification: 12x to 36x zoom. **Field of view @ 1,000 yards:** 140′ to 65′. **Objective Lens Diameter:** 50 mm. **Close Focus Distance:** 12′. **Exit Pupil:** 3.1 at 12x; 1.5 at 36x. **Eye Relief:** 14mm. **Approximate Length:** 8-7/10″. **Approximate Weight:** 1.3 lbs.

12-36 x 50mm Sentry Compact	6 lbs.	**59997**	**$173.00**

BRUNTON

New!

Brunton® Echo® Pocket Scope

4916

This compact 7x18 monocular provides bright, sharp images as close as 13″. Features premium BaK-4 prism glass, multi-coated optics, and a durable polymer frame. Lanyard and case included.

Power: 7x. **Objective Diameter:** 18mm. **Eye Relief:** 12mm. **Exit Pupil:** 2.6mm. **Field of View at 1,000 Yards:** 181′. **Close Focus:** 1.1′. **Weight:** 1.8 oz.

Brunton Echo Pocket Scope	3 oz.	**91564**	**$19.99**

LEUPOLD

3 Leupold® SX-1 Ventana™ Spotting Scope

2446

Manufacturer's Warranty Limited Lifetime

Featuring a Multicoat 4 lens system that directs more light to your eye (up to 92 percent), this spotting scope enables you to clearly distinguish game from the brush or background. A retractable lens shade eliminates glare and also improves image quality. Generous eye relief and a twist-up eyecup allow for easy viewing, even when wearing eyeglasses. The ergonomic design features aggressive knurling on the focus knob and lens shade to provide sure adjustment even with gloved hands. 100% Waterproof and fogproof. Kit includes spotting scope, compact adjustable tripod (multi-directional tilting head and non-slip feet), hardside carrying case, soft case, neoprene strap, and lens covers. Limited lifetime warranty from the manufacturer.

15-45 x 60mm Spotting Scope

Magnification: 15x to 45x. **Field of view @ 1,000 yards:** 121′ to 63′. **Objective Lens Diameter:** 60mm. **Close Focus Distance:** 13.8′. **Exit Pupil:** 4.0mm to 1.3mm. **Eye Relief:** 26.7mm to 24.0mm. **Length:** 13.5″. **Weight:** 30.6 oz.

SX-1 Ventana 15-45 x 60mm Spotting Scope	10 lbs.	**91234**	**$395.00**

20-60 x 80mm Spotting Scope

Magnification: 20x to 60x. **Field of view @ 1,000 yards:** 89′ to 47′. **Objective Lens Diameter:** 80mm. **Close Focus Distance:** 24.9′. **Exit Pupil:** 4.0mm to 1.3mm. **Eye Relief:** 26.4mm to 24.0mm. **Length:** 17.0″. **Weight:** 37.0 oz.

SX-1 Ventana 20-60 x 80mm Spotting Scope	11 lbs.	**91235**	**$590.00**

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Nikon® ProStaff® 5 Waterproof Spotting Scope With 16-48x Eyepiece

7955

This 16-48 x 60mm scope features Nikon's legendary, multicoated optical glass that provides bright, high-contrast images with true color rendition. The ergonomic, lightweight porro prism design incorporates internal surface texturing to minimize reflective light loss inside the scope. The mid-size 60mm objective lens provides a wide field of view in a highly portable scope. Built-in sliding sunshade. Waterproof/fogproof, nitrogen-purged, and o-ring sealed. Neoprene spotting scope sleeve and carry strap included.

Magnification: 16x-48x. **Objective Diameter:** 60mm. **Field of View at 1,000 yards:** 136.2′. **Exit Pupil:** 3.75mm. **Eye Relief:** 16.5mm. **Weight:** 33.69 oz.

16-48 x 60mm Spotting Scope with Straight Body	3 lbs.	**91083**	**$499.95**
16-48 x 60mm Spotting Scope with Angled Body	3 lbs.	**91084**	**$499.95**

Nikon® ProStaff® 5 Waterproof Spotting Scope Package

Includes spotting scope with straight body, full-size tripod, LensPen Pro Kit, neoprene spotting scope sleeve, and carry strap.

16-48 x 60mm Spotting Scope Package	8 lbs.	**91094**	**$549.99**

Nikon® ProStaff® 5 Waterproof Spotting Scope With 20-60x Eyepiece

7956

Combining high magnification with precision, this 20-60 x 82mm scope utilizes Nikon's legendary, multicoated optical glass to provide bright, high-contrast images with true color rendition. The ergonomic, lightweight porro prism design incorporates internal surface texturing to minimize reflective light loss inside the scope. The large 82mm objective lens ensures a wide field of view for superior viewing in all conditions. Built-in sliding sunshade. Waterproof/fogproof, nitrogen-purged, and o-ring sealed.

Magnification: 19.4x-60x. **Objective Diameter:** 82mm. **Field of View at 1,000 yards:** 104.8′. **Exit Pupil:** 4.12mm. **Eye Relief:** 16.5mm. **Weight:** 41.55 oz.

20-60 x 82mm Spotting Scope	4 lbs.	**91096**	**$599.95**

New! Nikon® ProStaff® 3 Waterproof Spotting Scope Package With 16-48x Eyepiece

8017

In addition to a 16-48 x 60mm spotting scope with a straight body and a zoom eyepiece, this ProStaff 3 package includes a compact tripod and a carrying case. The scope features multilayer coated lenses and prisms that deliver brilliant optical performance. Waterproof and fogproof, the scope is fully rubber armored.

Magnification: 16x-48x. **Objective Diameter:** 60mm. **Field of View at 1,000 yards:** 120′. **Exit Pupil:** 3.7mm to 1.25mm. **Eye Relief:** 19mm. **Weight:** 21.9 oz. (body only).

Nikon ProStaff 3 Spotting Scope Pkg.	4 lbs.	**91099**	**$329.95**

Bushnell

Bushnell® Window Mount

6902

Featuring an adjustable clamp, this convenient window mount provides a solid observational platform when working from your vehicle. It tilts up or down, rotates 360°, and includes a handle. Constructed of black ABS plastic.

Bushnell Window Mount	1 lb.	**61089**	**$38.95**

Nikon

Nikon® Tripod

2663

This lightweight, aluminum tripod adjusts from 23-1/2″ to 59-1/4″. Features include a swivel head with horizontal and vertical adjustment, a bubble level, rubber feet for sure grip in any terrain and a quick release attachment.

Nikon Tripod	3 lbs.	**91137**	**$78.95**

Bushnell

Bushnell® Advanced Titanium Tripod

8130

The ultimate tripod!

Constructed of titanium, this tripod features three-position leg angle adjustment, a three-way pan head, two pan and tilt handles, and a gearless reversible center column. **Maximum height:** 63″.

Advanced Titanium Tripod	4 lbs.	**91494**	**$172.75**

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Forestry Suppliers' Standard F.I.E.L.D. Kits®

Educational Products®

Designed with both students and teachers in mind, each Forestry Suppliers' F.I.E.L.D. Kit offers a comprehensive array of learning resources to take learning a step further—in and out of the classroom!

Packed with hands-on activities to make learning fun for students by bringing the subject matter to life, each kit provides the necessary tools for in-depth study in the field. Students gain important knowledge by performing exciting field exercises and then bringing their experiences back to the classroom. With Forestry Suppliers' F.I.E.L.D. Kits, students become active participants in the learning process! F.I.E.L.D. Kits are STEM based. Correlated lesson plans are available as a free download from the Forestry Suppliers website.

Forestry Suppliers' Forestry Field Studies F.I.E.L.D. Kit®

7513

These kits include the tools you need to make the study of forestry truly come alive! The kits are designed to be used in conjunction with *Forestry Field Studies: A Manual for Science Teachers* (sold separately, Stock Number 59810). Basic and Advanced Kits are available. In addition to the items included in each kit, log scale sticks and National Audubon Society Field Guides (each sold separately) are also available to help you take full advantage of the exercises included in *Forestry Field Studies: A Manual for Science Teachers*.

The Basic Kit includes: a canvas duffle bag, a digital thermometer, a sling psychrometer, a lux meter, a pocket wind meter, a GRS densitometer, deionized water, a diameter tape, 3 rolls of biodegradable roll flagging (orange, red, and yellow), and 6 orange hard hats.

The Advanced Kit includes the same items as the Basic Kit plus the following: a collapsible sampling square, a 25′ measuring tape, 6 pairs of safety glasses, and 6 clipboards.

Basic Kit	16 lbs.	**36872**	**$518.00**
Advanced Kit	25 lbs.	**36873**	**$571.00**

Additional Kit Components

	Doyle	Scribner	International 1/4″	Weight	Each	10+
Tree and Log Scale Sticks	**59750**	**59760**	**59770**	7 oz.	**$14.50**	**$13.25**
	Eastern Trees	**Western Trees**		**Weight**	**Each**	
National Audubon Society Field Guides	**61309**	**61310**		1 lb.	**$19.95**	**—**

Forestry Field Studies: A Manual for Science Teachers

7514

By David D. Glenn and Donald I. Dickmann. National Science Teachers Association Press, 2009. This hands-on manual guides teachers step-by-step through a comprehensive set of exercises related to forestry field studies. The manual includes information on basic ecology and forestry principles, necessary pre-fieldwork preparation, actual fieldwork, post-field trip data analysis, and report writing. Paperback. 102 Pages.

Forestry Field Studies: A Manual for Science Teachers	12 oz.	**59810**	**$14.95**

Educational Grades 5-8

Educational Grades 9-12

Forestry Suppliers' Orienteering F.I.E.L.D. Kit®

6807

Everything you need to conduct an orienteering classroom both indoors and outdoors in one convenient kit.

Forestry Suppliers' Orienteering F.I.E.L.D. Kit	9 lbs.	**36850**	**$340.00**
		2+	**$314.00**
		3+	**$294.00**

Contents Orienteering F.I.E.L.D. Kit

Qty.	Description	SN
10	Suunto A10 Partner II Compasses	**37177**
10	12″ x 10.5″ Course Markers	**37214**
1	Orienteering Control Cards, pack of 25	**36903**
1	Pack of 10 Card Punches	**36851**
1	Demonstration Compass	**36952**
1	Explore the World Book	**26891**
1	Geography Tutor Video: Volume 3-Map Skills	**26852**
1	Orienteering and Map Games for Teachers	**26889**
10	Compass and Map Pocket Guide	**26892**

Educational Grades 5-8

Educational Grades 9-12

Forestry Suppliers' Soil Analysis F.I.E.L.D. Kit®

6804

Collecting and studying soil samples has never been easier!

Forestry Suppliers' Soil Analysis F.I.E.L.D. Kit	9 lbs.	**36845**	**$323.95**
		2+	**$310.75**
		3+	**$296.50**

Contents Soil Analysis F.I.E.L.D. Kit

Qty.	Description	SN
1	Soil Color Book	**77369**
1	Soil Texture Kit (50 tests)	**77330**
1	Keck Sand Shaker	**53691**
1	Soil N-P-K Kit (50 tests)	**77960**
1	Soil Thermometer	**89028**
1	Whirl-Pak Sterile Sample Bags, Box of 100	**79227**
1	Soil Sampling Tube	**76971**
1	Pack of pH Paper	**78105**

Educational Grades 9-12

Forestry Suppliers' Meteorology F.I.E.L.D. Kit®

6806

This kit makes collecting weather data fun and easy!

Forestry Suppliers' Meteorology F.I.E.L.D. Kit	8 lbs.	**36848**	**$204.00**
		2+	**$196.50**
		3+	**$187.50**

Contents Meteorology F.I.E.L.D. Kit

Qty.	Description	SN
1	Corrugated PVC Snow Gauge	**88984**
1	Polycarbonate Rain Gauge	**89011**
1	Sling Psychrometer	**88982**
1	Suunto A10 Partner II Compasses	**37177**
1	Dwyer Handheld Wind Meter	**89001**
1	Min/Max Dial Type Thermometer	**89126**
1	Barometer	**43314**
1	Audubon Field Guide to Weather	**61311**
1	GLOBE Cloud Chart	**33485**

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Fundamental Investigation of the Environment Leading to Discovery™

The all-in-one design of our F.I.E.L.D. Kits means that teachers no longer have to search for the proper combination of tools needed for a particular field study. Each Kit saves money, too—up to 10% over individual item purchases.

F.I.E.L.D. Kits are STEM based. Correlated lesson plans are available as a free download from the Forestry Suppliers website.

Forestry Suppliers' GPS/GIS F.I.E.L.D. Kit®

4484

Your students can explore the world around them and always stay on the right track with this kit! Included in the kit are three Garmin® eTrex 10 GPS receivers (each includes a PC interface cable) and a training DVD. The 12-parallel channel GPS receiver offers easy one-handed operation, is WAAS (Wide Area Augmentation System) capable, and features water-resistant housing. In addition, the kit includes an ESRI® GIS Solutions for Education CD-ROM which features introductory Windows and Macintosh versions of ArcExplorer Java Edition for Education highlighting GIS information and activities. The kit also includes a Going Places With GPS book and a lockable molded plastic carrying case with foam insert that fits all components. Correlated lesson plans are available as a free download from the Forestry Suppliers website.

Forestry Suppliers' GPS/GIS F.I.E.L.D. Kit	8 lbs.	**36843**	**$449.00**
		2+	**$438.00**
		3+	**$429.00**

Educational Grades 9-12

Forestry Suppliers' Tree Study F.I.E.L.D. Kit®

6808

Forestry Suppliers' Tree Study F.I.E.L.D. Kit	16 lbs.	**36849**	**$375.00**
		2+	**$360.00**
		3+	**$344.00**
Tree Cookies, Pack of 6	4 oz.	**36858**	**$17.25**

Contents Tree Study F.I.E.L.D. Kit

Qty.	Description	SN
1	Increment Core Holders, pack of 10	**63395**
1	8″ Complete 3-thread Borer, 0.2″ Dia. Core	**63081**
1	Tangent Height Gauge	**36953**
1	Diameter Tape	**39480**
1	Tree Indentification Booklet	**94711**
1	Log Scale Stick	**59750**
1	100′ Keson K-Line Fiberglass Tape	**40057**
3	Roll Environmental Blue Flagging	**58036**
3	Roll Environmental Orange Flagging	**58037**
1	Bundle Blue Stake Flags	**39287**
1	Bundle Orange Stake Flages	**39288**
6	12″ Ruler	**47460**
6	Tree Cookies, Pack of 6	**36858**
6	Handheld Plastic Magnifier	**61233**

Educational Grades 5-8

Educational Grades 9-12

Forestry Suppliers' Water Monitoring F.I.E.L.D. Kit®

6803

Everything you need to conduct your own water monitoring program!

Forestry Suppliers' Water Monitoring F.I.E.L.D. Kit	12 lbs.	**36844**	**$255.00**
		2+	**$244.00**
		3+	**$234.00**

Contents Water Monitoring F.I.E.L.D. Kit

Qty.	Description	SN
1	GREEN Program Beginner Kit	**76648**
1	Transparency/Turbidity Tube	**77107**
1	Water Sampling Bottle	**77222**
1	LaMotte Bug Kit	**76606**
1	Hydrometer	**77949**
1	Pair Student Waders	**93967**
1	Insect Identification Flashcards, set of 18	**76609**
1	6-1/2″ Pocket Case Thermometer	**89120**

Educational Grades 5-8

Educational Grades 9-12

Forestry Suppliers' Entomology F.I.E.L.D. Kit®

6805

Ideal for the study of insects! Everything you need to mount, store, collect, study, and identify insects!

Forestry Suppliers' Entomology F.I.E.L.D. Kit	17 lbs.	**36846**	**$271.00**
		2+	**$261.00**
		3+	**$249.00**

Contents Entomology F.I.E.L.D. Kit

Qty.	Description	SN
4	Pinning Blocks	**53730**
6	Handheld Plastic Magnifier	**61233**
6	5 dram Plastic Tube, 13/16″ x 2-1/16″ ID	**53763**
6	25 dram Plastic Tube, 1-1/2″ x 3-5/16″ ID	**53762**
3	Insect Mounting Boxes	**53800**
3	Pair Forceps	**53806**
3	16 oz. Killing Jars	**53737**
1	Aspirator	**53758**
3	Versaboard Spreading Board	**53749**
3	Student Insect Net	**53672**
1	Audubon Field Guide to Insects	**61304**
3	1″ x 1″ x 7/8″ Bug Box with 4x Magnification	**53744**
3	1-1/2″ x 1-1/2″ x 1-1/2″ Bug Box w/3x mag.	**53745**
1	Size 3 Insect Pins, Box of 100	**53734**
6	Glassine Envelopes, Pack of 100	**53761**

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WeatherHawk™ GLOBE Weather Station page 503

The GLOBE Program
3365

Global Learning and Observations to Benefit the Environment

The GLOBE program provides materials and infrastructure to support student inquiries in earth science. GLOBE supplies the protocols and instrument specifications so that students can document consistent and valid measurements of the environment that are comparable with data collected by others worldwide.

To make instrument selection easier, a complete list of equipment and quantities necessary to complete a given GLOBE protocol is shown. Optional items pertinent to each protocol are noted separately to assist in developing the most comprehensive solution for your needs. All items meet or exceed GLOBE specifications to collect scientifically valid data.

Standard GLOBE Kit contents, found in the first three columns of this chart, indicates items and quantities available in either the Primary, Middle or Secondary kits. Should your school already possess a Standard GLOBE Kit, this chart will help identify those items which are needed to complete a protocol, but are not included in the Standard Kit.

Minimum Recommended Equipment

Standard GLOBE kits represent a minimal, entry-level approach to gathering GLOBE data, and are based on the recommendations of the GLOBE program. While each kit is complete by GLOBE standards, items can be purchased individually. Each Standard Kit contains items that conform to and can be used to obtain and record GLOBE data for a particular protocol.

Optional Equipment and GLOBE Protocol Required Products

Optional correlated products to Standard GLOBE Kits can also be ordered individually. If you seek a more comprehensive solution, all items pertinent to an entire GLOBE protocol are listed under their respective protocol names. This will assist in determining which items will be needed to eliminate duplication of product in your classroom, and maximize your budget dollars.

Standard GLOBE Kits

Primary Standard GLOBE Kit		26 lbs.	**99001**	**$429.75**
			3+	**$411.75**
			5+	**$397.50**
Middle Standard GLOBE Kit	O	28 lbs.	**99002**	**$481.95**
			3+	**$461.75**
			5+	**$444.50**
Secondary Standard GLOBE Kit		30 lbs.	**99003**	**$490.75**
			3+	**$469.75**
			5+	**$452.50**

Meter Stick
3365

Meter Stick	4 oz.	**71163**	**$7.95**

GLOBE Cloud Chart
4171

A valuable tool in observing and identifying cloud types.

This chart provides descriptions and visual examples of the ten basic cloud types: cirrus, cirrostratus, cirrocumulus, altostratus, altocumulus, cumulus, nimbostratus, stratus, cumulonimbus, and stratocumulus.

GLOBE Cloud Chart	2 oz.	**33485**	**$10.95**

GLOBE Plant Color Guide
4166

Use this color guide to estimate the dominant color present in leaves, shrubs, and grasses. Seasonal changes in color can then be monitored and recorded. Repeated observations prior to the estimated start of green-down can help in validating estimates of the end of the plant growing season. Colors are identified on the chart for easy reference.

GLOBE Plant Color Guide	1 oz.	**77898**	**$14.25**
		10+	**$12.25**

LaMotte

LaMotte® Soil pH TesTabs® Kit
8656

An alternative to liquid pH indicators, this kit utilizes TesTabs for measuring soil pH. Kit includes non-hazardous tablet reagents for 50 tests. Distilled or deionized water is recommended for use. Laminated color chart and instructions included. **Color Chart Values:** 4.0, 5.0, 6.0, 7.0, 8.0, 9.0, 10.0, 11.0.

LaMotte Soil pH TesTabs Kit	5 oz.	**77938**	**$14.70**

SHARP | be sharp

Sharp® Dual-Powered Basic Calculator
5412

Automatically switches from solar to battery power in low light! Features percent and square root keys, an oversized + key, plus eight-digit display and three-key memory. All keys are made of non-slip rubber. Measures 2-17/32″W x 4-1/8″L x 7/16″H.

Sharp Dual-Powered Basic Calculator	3 oz.	**34289**	**$5.95**
		10+	**$4.95**

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Standard GLOBE Program Kits, Contents and Protocols Served

Number	Description	Price	Standard Kits: Primary	Standard Kits: Middle	Standard Kits: Secondary	GLOBE Program Protocols: Atmosphere & Climate	Hydrology	Soil	Land Cover & Biology	Earth as a System/ Phenology	Macroinvertebrate Sampling
53676	Acid Bottle, 0.48 oz./15 ml Capacity	$3.75	1	1	1			•			
77369	The Globe Soil Color Book	$50.00	1	1	1			•			
53641	Graduated Cylinder, 100ml, grad. – 1 ml (not graduated the first 10 ml)	$11.25	1	1	1	•	•	•			
53629	Graduated Cylinder, 500ml, grad. – 5 ml	$21.25	1	1	1		•	•			
76370	Hydrometer	$22.50	1	1	1		•	•			
76220	Meter, Waterproof Electroconductivity	$60.50	1	1	1		•				
76219	Meter, Waterproof pH	$56.75		1	1	•	•	•			
78105	pH Indicator Paper	$10.50	1			•	•	•			
88994	Rain Gauge, 27.9 cm x 2 mm Capacity	$41.95	1	1	1	•					
53935	Soil Sieve, #10, 2mm Mesh	$9.05	1	1	1			•			
76105	Solution, Electroconductivity Calibration, 447.1 µS, one pint	$10.85	1	1	1		•				
76127	Solution, pH 10 Buffer	$8.30			1	•	•	•			
76126	Solution, pH 4 Buffer	$8.30			1	•	•	•			
76104	Solution, pH 7 Buffer	$8.30		1	1	•	•	•			
39789	Tape Measure, 50m	$25.50	1	1	1			•	•		
77141	Thermometer, Calibration (2 Required), -5°C to 50°C in 0.5° grads.	$11.95	2	2	2	•	•	•			
89082	Thermometer, Soil (Metric Bi-Metal Dial Thermometer)	$14.35	1	1	1			•			
89212	Thermometer/Logger, Digital Max/Min	$35.50	1	1	1	•		•			
89129	Weather Instrument Shelter	$145.00	1	1	1	•					

Optional Items and Protocols Served

Number	Description	Price	Atmosphere & Climate	Hydrology	Soil	Land Cover & Biology	Earth as a System/ Phenology	Macroinvertebrate Sampling
89000	Anemometer, Hand Held, Metric	$23.50	•					
67095	Auger, Soil	$156.25			•			
93488	Balance, Triple Beam	$134.25		•	•			
43314	Barometer, Aneroid, English, 940 to 1060 millibars (black print on white face)	$56.95	•					
43315	Barometer/Altimeter, Aneroid, Metric, 0 to 5000m	$64.50	•					
43316	Barometer/Altimeter, Aneroid, English, 0 to 15,000′	$64.50	•					
54111	Beaker, 100 ml, grad. every 25 ml. 12/cs.	$27.95		•	•			
54113	Beaker, 250 ml, grad. every 50 ml. 12/cs.	$29.50			•			
54115	Beaker, 600 ml, grad. every 100 ml. 6/cs.	$20.95			•			
54028	Bucket, 1 Gallon Utility	$22.75		•				
34289	Calculator, Dual Power	$5.95				•	•	
43830	Clinometer	$145.25	•		•	•		
53432	Clipboard	$2.45	•	•	•	•	•	•
53762	Collection Vial, 25 dram	$8.70						•
37177	Compass, Baseplate, Northern Hemisphere	$16.95	•	•	•	•	•	
37087	Compass, Baseplate, Southern Hemisphere	$19.95	•	•	•	•	•	
43888	Densiometer, Spherical Crown, Concave – Model C	$104.50				•		
43887	Densiometer, Spherical Crown, Convex – Model A	$104.50				•		
43889	Densitometer, GRS	$109.00			•	•		
53679	Eye Dropper	$0.50		•				
23382	NASTEK Plant Stress Detection Glasses	$67.95				•	•	
35735	Field Pack, Pajaro Grande Model	$41.50				•	•	
57908	Flagging, Tape, Orange Glo	$2.25				•		
53806	Forceps, Entomological	$6.30						•
53637	Funnel, 5″ Top Diameter	$4.95			•			
33485	GLOBE Cloud Chart	$10.95	•					
77898	GLOBE Plant Color Guide	$14.25				•	•	
33799	GLOBE Stake Wire Flags	$3.10				•		•
77083	Gloves, Latex, Box of 100	$6.95		•	•			
23290	Goggles, Safety	$4.75		•	•			
39194	GPS Receiver, Garmin GPS 72H	$149.99	•	•	•	•	•	•
61233	Magnifier, Plastic Handheld	$1.90						•
61122	Magnifier, Triple Lens Folding	$4.70					•	
71163	Meter Stick	$7.95	•		•		•	
61057	Microscope, Nikon Field	$560.00						•
61098	Microscope, DiscoveryScope Student Kit	$34.95						•
54133	Mortar & Pestle Set	$8.50			•			
53788	Net, Aquatic D-Net with Poles	$76.50		•				•
53757	Net, Aquatic Economy	$42.25		•				
77891	Net, Plankton	$79.25						•
77699	Net, Polyester Seine	$22.95						•
54145	Oven, Lab Convection ⓪	$445.75			•	•		
53892	Plastic Pipette, 1 ml, Pack of 100	$5.20						•
53763	Plastic Tube, 5 dram, 1.5″ x 3.3125″ ID	$3.95						•
61231	Pocket Microscope, 30x Lighted	$13.50		•				
53656	Polyethylene Bottle, 250ml w/Cap	$5.10		•				

Optional Items and Protocols Served

Number	Description	Price	Atmosphere & Climate	Hydrology	Soil	Land Cover & Biology	Earth as a System/ Phenology	Macroinvertebrate Sampling
76590	Protozoan Quieting Solution	$2.95						•
89288	Psychrometer, Sling	$51.25	•					
76619	Reference: Aquatic Macroinvertebrate Life Cycle Cards	$57.15						•
61309	Reference: Eastern Trees Guide	$19.95					•	
76591	Reference: A Guide to Common Freshwater Invertebrates of North America	$38.95						•
94711	Reference: Leaf and Tree Finder Book	$4.95				•	•	
76609	Reference: Leaf Pack Flash Cards	$48.15		•				•
61310	Reference: Western Trees Guide	$19.95					•	
94712	Reference: Winter Tree Finder Book	$4.95				•	•	
77254	Sampler, Aquatic Suction	$46.75						•
77266	Sampler, Hester Dendy	$31.95						•
93952	Scale, 120g Hand Held	$106.25				•		
77179	Secchi Disc With 20m Rope	$29.50		•				
33831	Shovel, Round Point	$20.95			•			
77252	Sieve, Shaker	$19.95						•
88984	Snow Gauge	$8.95	•					
79147	Soil Collection Bags	$22.95			•			
77961	Soil Dispersing Solution	$39.25			•			
77056	Soil Moisture Meter (requires 77382 Soil Moisture Sensor, below)	$348.50			•			
77382	Soil Moisture Sensor with 5′ cable	$38.75			•			
77045	Soil Sample Cans, Case of 18	$29.25			•			
39515	Stakes, Wood Flat, 1″ x 2″ x 6″, 50/bundle	$12.25				•		
92637	Stopwatch, Digital	$22.95	•					
49368	Student Notebook, No. 371 – Universal Pattern, Rite-in-the-Rain	$4.15				•	•	
36953	Tangent Height Gauge, Forestry-Suppliers	$19.75			•	•		
77125	Test Kit, Alkalinity	$37.50		•				
77129	Test Kit, Alkalinity Reagent Refills	$17.25		•				
77191	Test Kit, Dissolved Oxygen ⓘ	$55.40		•				
77195	Test Kit, DO Reagent Refills ⓘ	$32.75		•				
77050	Test Kit, Nitrate-Nitrogen ⓘ	$87.50		•				
77051	Test Kit, Nitrate-Nitrogen Reagent Refills ⓘ	$34.25		•				
77161	Test Kit, Salinity	$67.40		•				
77074	Test Kit, Salinity Reagent Refills	$40.75		•				
77960	Test Kit, LaMotte Soil N-P-K Kit	$28.75			•			
89345	Thermohygrometer, Digital	$27.95	•	•	•			
89415	Thermohygrometer, Infrared	$81.25			•			
00359	Tray, Sampling (for grid use)	$12.95						•
53600	Tray, Sorting	$12.95						•
33413	Trowel, Garden	$6.95			•			
77096	Turbidity Tube	$58.75		•				
93967	Waders, Vinyl	$13.25		•				
53605	Wash Bottle, 250ml	$6.75		•				
94553	Weather Station Mounting Tripod	$75.00	•					
94536	Weather Station Temperature Station	$185.00	•					
94503	Weather Station, Wireless	$575.00	•					

ⓘ Extra Charge if Shipped by International Air.
⓪ Ships at Oversize rate. See Shipping Information for details.

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Electrical Circuit Education
7686

Use these electricity "basics" to create introductory and advanced studies and activities in the classroom. Great for series and parallel circuits, current flow and measurement, and more!

Accessories

D cell Alkaline Battery	6 oz.	**02180**	**$2.45**
Replacement Lamps, 1.5V DC - Pack of 10	1 oz.	**54645**	**$3.65**
Lead Wire, Black, Alligator Clip	1 oz.	**54639**	**$3.95**
Lead Wire, Red, Alligator Clip	1 oz.	**54638**	**$3.95**

Jack Knife Switch

For low voltage experiments (less than 36V) with plastic bases. Screw posts, single pole, single throw.

Jack Knife Switch	1 oz.	**54644**	**$2.00**

D-Cell Battery Holder

Made of plastic and holds 2 "D" Batteries. Features male and female button snaps to allow instant connections with each other, in series or in parallel, without using leads.

D-Cell Battery Holder	1 oz.	**54677**	**$2.25**

Fahnestock Clips

For one wire. 3/4″ length, 5/16″ width. With screw hole. Pack of ten.

Fahnestock Clips	1 oz.	**54641**	**$2.55**

Lamp Holder

Plastic base with Fahnestock clips for holding bulbs.

Lamp Holder	1 oz.	**54643**	**$1.40**

Volt Meter
7687

This general purpose volt meter features a scale length of 75mm and ±2.5% accuracy. In addition, the meter has a five-way binding post, external calibrating screw, and a stackable design for convenience. The meter is mounted in a black plastic case with an inclined meter face. **Note:** Not protected against prolonged or significant overload.

Volt Meter	6 oz.	**54642**	**$14.50**

Lead Wires
7688

Provide a secure attachment for an uninterrupted flow of electricity. Feature alligator clips on both ends for a variety of experiments. Available in red or black. 14-1/2″L.

Lead Wire, Black, Alligator Clip, Pack of 10	1 oz.	**54639**	**$3.95**
Lead Wire, Red, Alligator Clip, Pack of 10	1 oz.	**54638**	**$3.95**

Economy Spring Scales
7691

Use these dual scale spring scales to measure force (Newton) and mass (grams). Easy zero adjustment. Clear acrylic body.

Economy Spring Scale, 250g/2.5N	3 oz.	**54640**	**$4.95**
Economy Spring Scale, 1,000g/10N	2 oz.	**54601**	**$4.95**

Economy Digital Timer
7685

Features a 24-hour stopwatch, time display (hours/minutes/seconds with 12- or 24-hour mode option), alarm, hourly chime, 1/100 second chronograph, split time, total time, and calendar. Battery and lanyard included. **Dimensions:** 5.5″ x 3″ x 1″.

Economy Digital Timer	1 oz.	**54610**	**$4.65**

Coil Spring
7689

Use this coil spring to make wave studies fun and easy! Use horizontally on a smooth surface or vertically suspended. Measures 3″ in diameter by 4″L. Stretches up to 24 ft.

Coil Spring	13 oz.	**54632**	**$4.45**

Hall's Carriage (Physics Cart)
7690

Perfect for use in momentum and energy experiments, features a one-piece, high-impact plastic body. The machined aluminum wheels and axles are mounted on hardened steel cone bearings to ensure minimum friction. Teacher's Guide included.

Hall's Carriage (Physics Cart)	4 oz.	**54603**	**$15.00**

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New! NeuLog™ Logger Sensors

4986

NeuLog Logger Sensors are a set of independent computer based modules, complete with a data logger, flash memory and a sensor – all in one single smart unit. This autonomous plug-and-play concept allows for an easy, precise and fun way of conducting classroom and field experiments. Using up to 10 sensors plugged together per experiment, the sensors convert the measured parameters into processed value and can store up to 5 experiments in flash memory. The data can be viewed on a viewer module (optional), a PC or Mac, or on a tablet. Push-button calibration. **Max Sample Rate (S/sec):** 100.

Note: A connection between sensors and hardware is required. You can choose from the USB Module, Wifi Module, RF Module, or Display Module. A Battery Module is also required for any connection other than USB Module, which is powered through the cable.

NeuLog™ Ammonium Logger Sensor

For measuring the concentration of ammonium ions (NH_4^+) in aqueous samples.

NeuLog™ Nitrate Logger Sensor

Measures the concentration of nitrate ions (NO_3^-) in aqueous samples.

NeuLog™ Calcium Logger Sensor

Enables measurements of ionic calcium (Ca_2^+) concentration in aqueous samples. It can also be used to determine calcium – magnesium by EDTA titration.

NeuLog™ Chloride Logger Sensor

Use to measure the concentration of chloride ions (Cl^-) in aqueous samples.

NeuLog™ Conductivity Sensor

This logger sensor is based on a probe with two electrodes with known surface area and distance between them. A signal is supplied to the electrodes and, by testing the signal behavior, the conductivity of the solution is calculated. The logger sensor has three ranges for displaying the solution conductivity: µS/cm, mg/L, and ppm.

NeuLog™ Salinity Logger Sensor

Enables measurements of the salt content in a solution in three ranges: %, ppm and mg/L. The sensor is pre-set factory calibrated and immediately ready to use.

NeuLog™ Oxygen Logger Sensor

This sensor can be used to make measurements of the level of free oxygen in air or dissolved oxygen in water. Employs easy-to-use polarographic (Clark) technology.

NeuLog™ CO_2 Logger Sensor

This logger sensor is based on an electromechanical reaction between CO_2 gas and the sensor. The result of the electromechanical reaction is voltage, measured by the logger sensor. The measure units are ppm (parts of CO_2 per million of air).

Note: The sensor must be calibrated before every use according to the following simple procedure: connect the sensor to the PC through a USB module or a battery module. Wait for about 15 minutes to warm the sensor and press the pushbutton switch on the CO_2 logger sensor for 3 seconds. Preferably this calibration should be performed in open space. A bottle adapted to the sensor is supplied.

NeuLog™ Light Logger Sensor

Measures illumination with three ranges. Can be used in low light environments such as in a classroom, or high light environments as in daylight outdoors.

NeuLog™ Barometer Logger Sensor

Measures atmospheric barometric pressure and can display data in four common units: kPa, atm, in Hg and mm Hg. The sensor also offers an option to display the measured pressure values in terms of altitude (in meters).

NeuLog™ Relative Humidity Logger Sensor

This sensor measures relative humidity.
Accuracy: ±5% RH.

NeuLog™ Infrared Thermometer Logger Sensor

This logger sensor measures temperature remotely using an infra-red high accurate sensor.

NeuLog™ Wide-Range Temperature Logger Sensor

This sensor is based on a thermocouple sensor that enables measuring very high temperature levels, as well as very low temperature levels.

NeuLog™ Temperature Logger Sensor

This versatile sensor can be used for temperature measurements in solids, liquids or gases.

NeuLog™ Surface Temperature Logger Sensor

Measures the surface temperature of any surface in Fahrenheit or Celsius.

NeuLog™ Turbidity Logger Sensor

Measures the reflected light that enters into a tube containing a solution.

NeuLog™ pH Logger Sensor

Measures the static pH values of common liquids (water, milk, soft drinks, vinegar, etc.) as well as the changing values in titrations or experiments such as those looking at the effect of antacids. The pH sensor is designed for long life in a variety of general purpose situations. Its sealed reference system and gel fill make it easy to use and maintain.

NeuLog™ Soil Moisture Logger Sensor

This logger sensor is based on measuring the partial vacuum pressure in a tensiometer.

NeuLog™ Neuron Logger Accessories

Rechargeable Battery Module	6 oz.	**89602**	**$52.95**
USB Module	6 oz.	**89603**	**$47.95**
WiFi Module	8 oz.	**89604**	**$174.95**
Viewer Display Module	4 oz.	**89622**	**$69.75**
RF Communication Module, Pack of 2	8 oz.	**89623**	**$83.50**

Model	Logger Sensor	Range	ADC	Resolution	Weight	SN	Each
NUL-240	Ammonium Ion	mg/L: 0.02 to 18,000 ppm: 0.02 to 18,000		mg/L: 0.03 at 0.02 to 100; 0.1 at 100 to 1,000; 130 at 1,000 to 18,000 ppm: 0.03 at 0.02 to 100; 0.1 at 100 to 1,000; 130 at 1,000 to 18,000	12 oz.	**89619**	**$329.95**
NUL-241	Nitrate	mg/L: 0.01 to 14,000 ppm: 0.01 to 14,000	15 bit	mg/L: 0.1 at 0.1 to 1,000; 98 at 1,000 to 14,000 ppm: 0.1 at 0.1 to 1,000; 98 at 1,000 to 14,000	12 oz.	**89620**	**$329.95**
NUL-238	Calcium	mg/L: 0.02 to 40,000 ppm: 0.02 to 40,000	15 bit	mg/L: 0.03 at 0.02 to 100; 0.1 at 100 to 1,000; 130 at 1,000 to 40,000 ppm: 0.03 at 0.02 to 100; 0.1 at 100 to 1,000; 130 at 1,000 to 40,000	12 oz.	**89617**	**$329.95**
NUL-239	Chloride	mg/L: 1.8 to 35,500 ppm: 1.8 to 35,500	15 bit	mg/L: 0.1 at 1.8 to 1,000; 250 at 1,000 to 35,500 ppm: 0.1 at 1.8 to 1,000; 250 at 1,000 to 35,500	13 oz.	**89618**	**$329.95**
NUL-215	Conductivity	µS/cm: 0 to 20,000 mg/L: 0 to 18,000; ppm: 0 to 18,000	17 bit	µS/cm: 0.1 at 0 to 2,000; 1 at over 2,000. mg/L: 0.1 at 0 to 1,000; 1 at over 1,000. ppm: 0.1 at 0 to 1,000; 1 at over 1,000.	6 oz.	**89609**	**$104.95**
NUL-228	Salinity	0 to 6.4%; mg/L: 0 to 64,000; 0 to 64,000 ppm	17 bit	0.0002%; 1 mg/L; 1 ppm	6 oz.	**89612**	**$97.75**
NUL-205	Oxygen	Air: 0 to 25%; Dissolved (%): 0 to 125%; Dissolved (mg/L): 0 to 12.5	13 bit	Air: 0.1%; Dissolved (%): 0.1%; Dissolved (mg/L): 0.01 mg/L	8 oz.	**89606**	**$214.95**
NUL-220	CO_2	350 to 10,000 ppm	14 bit	1 ppm	15 oz.	**89610**	**$249.95**
NUL-204	Light	1 to 1,000 in lx; 0 to 6,000 in lx; 0 to 150,000	16 bit	1 lx for 1 to 1,000 in lx; 1 lx for 0 to 6,000 in lx; 6 lx for 0 to 150,000	4 oz.	**89600**	**$54.95**
NUL-221	Barometer	kPa: 80 to 106; atm: 0.8 to 1.0; in Hg: 23.60 to 31.30; mm Hg: 600 to 795; m: -380 to 1950	15 bit	kPa: 0.1; atm: 0.01; in Hg: 0.03; mm Hg: 0.8; m: 0.8	5 oz.	**89611**	**$75.25**
NUL-207	Relative Humidity	0 to 100% RH	16 bit digital	0.1%	4 oz.	**89608**	**$75.25**
NUL-235	Infrared Thermometer	-22°F to 719°F (-30°C to 382°C)	13 bit	0.2°F (0.1°C)	4 oz.	**89616**	**$224.95**
NUL-234	Wide-Range Temp	-328°F to 2192°F; -200°C to 1200°C	15 bit	0.2°F; 0.1°C	4 oz.	**89615**	**$65.75**
NUL-203	Temperature	40°F to 284°F; -40°C to 140°C	12 bit	0.2°F; 0.1°C	5 oz.	**89605**	**$35.75**
NUL-233	Surface Temperature	-40°F to 284°F; -40°C to 140°C	12 bit	0.2°F; 0.1°C	5 oz.	**89601**	**$31.95**
NUL-231	Turbidity	0 to 200 NTU	16 bit	0.20 NTU	5 oz.	**89613**	**$119.95**
NUL-206	pH	0 to 14 pH	15 bit	0.01 pH	6 oz.	**89607**	**$84.95**
NUL-229	Soil Moisture	-20 to 50 cbar; -20 to 50 kPa	15 bit	0.01 cbar; 0.01 kPa	6 oz.	**89614**	**$94.95**

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Aqua Scope II™
5078

Perfect for school projects!

Use this 26″ viewer to view secchi disc readings and observe aquatic plant and animal life. Innovative design eliminates surface glare and internal reflection. Consistent viewing parameters, regardless of environmental conditions, are possible with this unit's black interior, flotation collar, neoprene viewing mask, and handle. Constructed of crush-resistant tube.

Aqua Scope II 2 lbs.		**77124**	**$73.50**
	4+		**$68.50**

LaMotte
GREEN Program Estuary Monitoring Kit
7021

Simple, affordable and non-hazardous!

This kit was specifically designed for testing salt and brackish waters for coliform bacteria, salinity, dissolved oxygen, BOD, nitrate, pH, phosphate, temperature, and turbidity. Kit comes complete with all TesTab® reagents and components to test ten water samples (Three for coliform). Lesson plans included. Designed for up to 30 students, grades 1 through 5.

GREEN Program Estuary Monitoring Kit 11 oz.		**76676**	**$50.95**

EarthForce GREEN Program
Global Rivers Environmental Education Network

LaMotte
GREEN Program Advanced Water Monitoring Kit
3362

Includes all the LaMotte water quality test kits featured and supported in The Field Manual for Water Quality Monitoring, 11th edition (Mitchell and Stapp).

Also includes a valuable reference guide which is a standard text for school-based water quality monitoring programs around the world. **Use kit for testing the following parameters:** dissolved oxygen (50 tests), precision pH (100 tests), phosphate (50 tests), auxiliary phosphate, nitrate (50 tests), turbidity (50 tests), and temperature (unlimited tests).

GREEN Program Advanced Water Monitoring Kit	A	16 lbs.	**76650**	**$559.50**

LaMotte
GREEN Program Low Cost Water Monitoring Kit
3360

Ideal for any introductory water monitoring program – simple, affordable testing for eight water quality parameters.

The eight testing parameters include dissolved oxygen (10 tests), biochemical oxygen demand (10 tests), pH (10 tests), nitrates (10 tests), phosphates (10 tests), temperature change (unlimited), coliform bacteria (3 tests), and turbidity (unlimited). The Kit comes with all the necessary apparatus and non-hazardous TesTab® reagents required to perform water quality tests on ten water samples. The GREEN Water Monitoring Kit includes an instructor's manual with clear, easy-to-read, step-by-step, illustrated instructions. This portable kit can be easily packed for a day outdoors! Ideal for students from primary grades through college, as well as citizen monitoring groups.

GREEN Program Low Cost Water Monitoring Kit		11 oz.	**76648**	**$38.95**
			10+	**$36.25**
			20+	**$34.50**

LaMotte
GREEN Program Water Monitoring Kit
3361

The next step-up from the GREEN Low Cost Water Monitoring Kit.

Kit uses the same non-hazardous TesTab® method for testing water quality as the GREEN Advanced Water Monitoring Kit. Provides enough materials to test 100 water samples for each of nine water quality parameters, including dissolved oxygen, biochemical oxygen demand, pH, temperature change, nitrate, phosphate, turbidity, coliform bacteria, and benthic macroinvertebrates. Each test factor module includes step-by-step illustrated instruction cards, color charts, water quality flashcards, and safety information. Instructor's Manual includes data sheets and guidelines for creating an effective local water quality monitoring program involving both schools and communities. Ideal for students from primary grades through college, as well as citizen monitoring groups.

GREEN Program Water Monitoring Kit	7 lbs.	**76649**	**$232.50**

A Extra Charge if Shipped by Air. See Shipping Information for details.

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BioPaddle Nutrient Agar

2409

BioPaddles™ are flexible dual-agar paddles each containing microbe-specific media enclosed in a sterile vial. Identify and quantify microbes in air, soil, water, or any surface! BioPaddles do not require any other testing equipment – only a magnifier and warm place (35°C or incubator) are needed. All BioPaddle™ products include a free LaMotte BioPaddle Colony Identification App that lets users compare the "unknown" microbe growth on the BioPaddle to a library of photos of "known" microbe colonies from 6 microhabitats (clinical, air, water, soil, surface and food). BioPaddle™ Products are packaged 10 paddles per box and include a technical information sheet.

BioPaddle NUT-TTC/EMB Agar	10 oz.	**76433**	**$39.95**
BioPaddle Sabouraud Dextrose Agar	10 oz.	**76434**	**$39.95**
BioPaddle Tryptic Soy (TSA)/ Rose Bengal (RB) Agars	10 oz.	**76436**	**$39.95**
BioPaddle Nutrient TTC/ MacConkey Agars	10 oz.	**76437**	**$39.95**
BioPaddle Nutrient Agar	10 oz.	**76428**	**$39.95**

New! LaMotte® BioPaddle Total Coliform Activity Kit

2409

Fast and reliable cultivation and enumeration of coliform bacteria. Includes 5553/Nutrient TTC/ MacConkey BioPaddles® (10 paddles). Activity includes a Teacher Resource CD with a complete coliform test activity, Teacher and Student Guides, PowerPoint and iPad/iPod formatted material that provides helpful background information on coliforms, field testing, Fecal Coliform Count, Total Viable Count (TVC) and Total Coliform Count (TCC) enumeration. Can be used as a demonstration or a classroom activity. Additional BioPaddles are available. Also includes a Free LaMotte BioPaddles® Colony ID™ Lite App.

BioPaddle Total Coliform Activity	1 lb.	**76435**	**$54.95**

New! LaMotte® Microbe Hunter™ Activity Kit

2409

Designed for Grades 5-10

A fun and safe way to bring STEM-based learning into the classroom! The STEM-based activities of this kit guide students through the culturing and presumptive identification of common microbes on innovative BioPaddles® - each containing microbe-specific media enclosed in a sterile vial. Students apply science, technology, engineering, and math concepts to the exploration and identification of microbes that students culture from popular dairy products like milk, yogurt, and Kefir. Activities and topics include probiotics, fermentation, pasteurization, and shelf life. Kit includes 10 BioPaddles to perform the first two activities, 10 magnifying lenses, 5 expandable and adaptable activities, a digital Student Guide and Teacher Guide on CD, and PowerPoint presentations for iPad, ID Guides, resources, links, etc.

Microbe Hunter Activity Kit	3 lbs.	**76380**	**$69.95**

LaMotte

LaMotte® AP Water Quality Assessment Package

2409

An extensive curriculum that uses the exploration of the Water Quality Index to teach students STEM-based skills that they will apply through classroom and field activities to satisfy Section VI (Water Pollution) of the AP® Environmental Topics Outline. In 4 classroom activities, students use actual data from the Kansas River watershed to: perform independent research, analyze data, create spreadsheets, calculate the water quality index, generate graphs, collect data, perform statistical analysis, access real-time hydrological data, locate local watersheds, observe environmental systems, and communicate accurately. In a culminating field activity, students utilize appropriate techniques and instrumentation to identify their watershed and perform chemical and biological analyses to determine the water quality index of a local waterway. The following environmental concepts are covered: watersheds, Water Quality Index, physical, chemical and biological water quality parameters, nutrient loading, hydrological variables, watershed ecology, remediation measures, and point-non-point pollution sources. The Teacher Resource CD-ROM contains a teacher/student guide, Water Quality Test procedures, STEM Extension Activities, chemical reactions, data spreadsheets, glossary, graphics files and PowerPoint presentations and Quick Time iPad/iPod Videos. Also included is a Free LaMotte BioPaddle Colony Identification App which lets users capture the BioPaddle image to compare the "unknown" microbe growth on the BioPaddle to a library of photos of "known" microbe colonies.

AP Water Quality Assessment Package	15 lbs.	**76388**	**$498.95**

AP Water Quality Assessment Curriculum Module

2409

This extensive curriculum uses the exploration of the Water Quality Index to teach students STEM-based skills that they will apply through classroom and field activities to satisfy Section VI (Water Pollution) of the AP® Environmental Topics Outline. Includes 10 Nutrient - TTC/MacConkey BioPaddles for coliform testing, Salt/TDS/Temp Tracer for temperature and TDS determination, and a Teacher Resource CD-ROM which contains teacher/ student guides, water quality test procedures, PowerPoint presentations and Quick Time iPad/ iPod videos for STEM Design Activities and STEM Skills, Watershed Ecology, WQI, Point/Non-Point Pollution, Glossary and a free LaMotte BioPaddle Colony Identification App.

AP Water Quality Assessment Curriculum Module	2 lbs.	**76387**	**$169.95**

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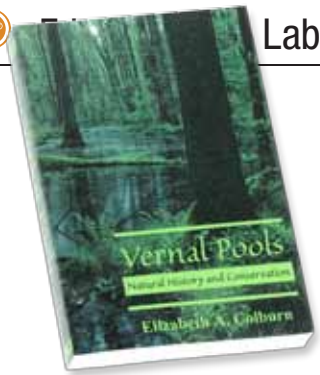

Vernal Pools: Natural History and Conservation
3842

By Elizabeth A. Colburn. The McDonald & Woodward Publishing Company, 2004. Information on the natural history, ecology, and conservation of the seasonally wet pools which occur throughout the formerly glaciated region of eastern North America. Includes an exploration of the microscopic life forms associated with vernal pools, the ecological processes and patterns of pool communities over time, and the research and conservation needs in the continuing effort to understand and protect vernal pools. Appendix identifying all animals reported from vernal pools, a glossary of technical terms, and bibliography. Softcover. 426 pages.

Vernal Pools: Natural History and Conservation	1 lb.	**76595**	**$34.95**

Ecology of Vernal Pools Poster
3695

This laminated poster features spectacular images from the Roger Tory Peterson Institute. A valuable visual teaching tool, the poster can help students gain an understanding of a vernal pool's fragile ecology and its importance to the life cycle of invertebrates and amphibians. Featured organisms include invertebrates, salamanders, frogs, and toads. An overview of the amphibian life cycle is also included. For grades 6 through 12. **Dimensions:** 23˝W x 35˝H.

Ecology of Vernal Pools Poster	11 oz.	**76655**	**$19.95**

LaMotte® Leaf Pack Experiment Kit
3348

Teach your students the vital relationships between streamside forests and stream life.

Students can create their own leaf packs for the collection and study of freshwater macroinvertebrates in their natural environment. The materials and guides for collection, sorting, and identification are all included in the kit and are all reusable.

Contents include: 6 mesh bags with waterproof labels, 1 marker, 1 stainless steel strainer, 14 sorting trays, 60 plastic Petri dishes, 6 waterproof sorting sheets with drawings and names of typical freshwater invertebrates, 1 thermometer, 1 scale, 2 rulers, 12 brushes and spoons, a set of 18 full-color flashcards with line drawings and identification tips, 6 hand lenses, and 1 MacroLens™ magnifier with sample holders, nylon twine, zipper-top bags, leaf identification guide, instructors manual, and record sheets.

LaMotte Leaf Pack Experiment Kit	7 lbs.	**76605**	**$194.00**

LaMotte® Leaf Pack Flash Cards
7023

These full-color, laminated flash cards help students identify and understand freshwater aquatic macroinvertebrates.

Freshwater Aquatic Macroinvertebrate: Insect Identification Flashcards

These 18 flash cards identify aquatic insects found on decaying leaves and feature a photo, line drawings and identification tips.

Insect Identification Flashcards	8 oz.	**76609**	**$48.15**

Freshwater Aquatic Macroinvertebrate: Insect Life Cycle and Habitat Flash Cards with Manual

22 flash cards with photos of immature and adult insect stages, and detail life cycle and habitat information. Manual contains facts on insect characteristics, life cycles, taxonomy, classification, food webs, and how macroinvertebrates can be indicators of water quality. Instructions included.

Insect Life Cycle and Habitat Flash Cards	11 oz.	**76619**	**$57.15**

LaMotte® BugKit™
6592

Investigate the health of streams, ponds, and other freshwater environments with this kit!

With each kit, one to two students can learn to collect, observe, sort, and identify aquatic insects as a means of measuring water quality. The kit includes mesh leaf bags for collection, trays and plastic dishes for sorting, a magnifying lens, BUGGUIDE, and a BUGBOARD identification chart. For ages 8 and up.

LaMotte Bug Kit	1 lb.	**76606**	**$15.55**

WaterMark® Protozoan Quieting Solution
2703

1.5% Methyl Cellulose solution for quieting protozoans for a better look under the microscope.

30 ml Dropper Bottle	2 oz.	**76590**	**$2.95**
		5+	**$2.40**

Microlife Mix
2643

This unique, dried mix is specially formulated to contain a variety of microhabitat materials, including bacteria and nutrients to support microlife growth. Bacteria and other single-celled organisms can be observed within 24 hours while larger microinvertebrates will appear within a week. Some microlife forms to be viewed include bacteria, green and non-green protists, filamentous algae, rotifers, ostracods and other microinvertebrates. A comprehensive identification sheet is included illustrating more than 50 microlife forms. Stores safely for years without special handling.

Microlife Mix	2 oz.	**76991**	**$11.95**

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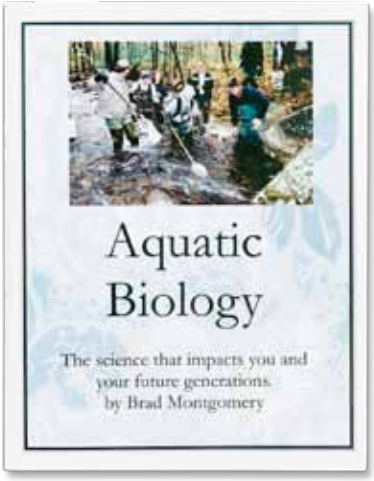


Aquatic Biology
4370

By Brad Montgomery. An excellent resource for classroom and field use in aquatic biology studies, this book emphasizes scientific principles, analysis, and laboratory and field investigation. Students will gain a new understanding of the interrelationships of the natural world in the context of aquatic biology. By identifying and analyzing both man-made and natural environmental problems, students can evaluate the risks associated with these problems and uncover solutions for solving or even preventing them. Paperback. 58 Pages.

Aquatic Biology	10 oz.	**76860**	**$25.00**

Aquatic Biology Teacher's Resource CD

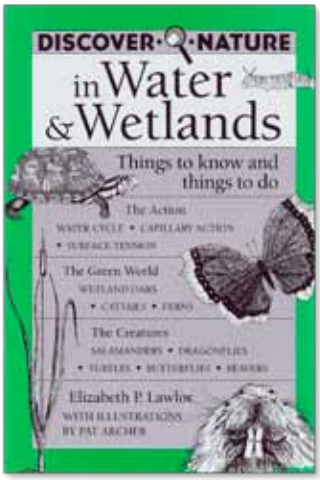
Includes notes, answers to questions in the Aquatic Biology book, tests, test keys, course description, research paper guidelines, and more!

Teacher's Resource CD	▲	3 oz.	**76861**	**$50.00**

Bugs of the Underworld DVD
7278

This informative DVD showcases the real lives of benthic macroinvertebrates in the wild! Uncover the secret lives of macros such as mayflies, damselflies, midges, caddisflies, and stoneflies. Witness the underwater transformation of these organisms into winged adults. Viewers will gain a new appreciation of these insects that profoundly influence the aquatic ecosystem and whose presence is an accurate measurement of stream health and water quality. 35 minutes.

Bugs of the Underworld DVD	▲	3 oz.	**76688**	**$35.30**



Discover Nature in Water & Wetlands
7979

By Elizabeth P. Lawlor. Stackpole Books, 2000. Highlights essential information about the diverse ecosystems surrounding ponds, swamps, and other watery places and also provides activities to help you explore these fascinating areas. Discover the properties, processes, and phases of water as well as the plant and animal life associated with water. Includes chapters on trees, cattails, ferns, dragonflies, damselflies, butterflies, salamanders, frogs, turtles, and wetland mammals (beavers, muskrats, and raccoons). 222 Pages. Softcover.

Discover Nature in Water & Wetlands	12 oz.	**61330**	**$17.95**

Sorting Spot Plates
2702

Ideal for sorting and identifying macroinvertebrates! These smooth, white plastic sorting plates are more economical than expensive glass or porcelain plates. Not recommended for use with acetone, xylene or other strong solvents. Each tray measures 112mm x 92 mm and has 12 depressions. Package of 12.

Sorting Spot Plates, Pack of 12 15 oz.	**53600**	**$12.95**

Macro Invertebrate Sampling Tray
4537

A must-have for macroinvertebrate studies both in the field and in the classroom! Aquatic samples can be easily viewed and sorted against the white background of this durable porcelain-coated metal tray. **Dimensions:** 11″W x 15″L x 1″D.

Macro Invertebrate Sampling Tray 1 lb.	**00359**	**$12.95**

Note: Sorting plates not included.

Entomology Forceps page 450

AM-12 TesTab® Water Investigation Kit
3351

Designed to investigate the pollution of fresh or saline aquatic environments.

Twelve individual test modules allow teams of students to perform tests using safe, simple TesTab® reagents. Each module provides the necessary materials to test 100 water samples for the following parameters: alkalinity, ammonia, chloride, chlorine, chromium, copper, dissolved oxygen/BOD, hardness, iron, nitrate, pH, and phosphate. The reader-friendly, laminated instruction cards provide step-by-step instructions and colorful diagrams. Also included in each module are a color chart, safety information, and laminated flashcards containing water quality information as it relates to the health of an aquatic ecosystem. The modules are packaged in a light, field-ready carrying case.

AM-12 TesTab Water Investigation Kit	7 lbs.	**76651**	**$239.95**

▲ **Note:** Non-returnable if opened or seal is broken.

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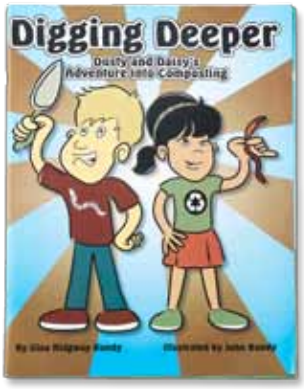
The Globe Soil Color Book
page 289



New! Digging Deeper
4865

By Gina Ridgway Bundy. Multi-Print, Inc., 2013. Follow eleven-year-old Dusty Green on his adventures into the world of composting! Fun-filled and informative, this book explores biomes, the food web, and the vital role of worms in composting. Each chapter also includes follow-up activities for additional learning opportunities. For grades 3 and up. 32 Pages. Softcover.

Digging Deeper	8 oz.	**76576**	**$13.50**

WormWatcher® Environmental Educator Kit
4798

The WormWatcher brings hands-on, year-round activity into the classroom! Lockable and portable, this clear, indoor composter demonstrates how worms recycle food waste making healthy soil. Thanks to the clear container, different food items can be buried in each corner and the results can be compared. Experiments can even be performed with the worms, worm castings (vermicast used as a soil supplement), and worm tea (liquid fertilizer). The WormWatcher is an easy-to-clean chamber with excellent drainage and air flow that acts as a low-maintenance, odorless composter requiring no tumbling or turning. Fast results can be seen in days to weeks. Easy-to-carry, it can even be shared with other classrooms. Kit includes written directions, a setup video link, a curtain, gloves, VitaMix, Starter Soil, a moisture meter, a trowel, and a book filled with hundreds of activity sheets connecting science topics, math, writing, and more. A certificate is also provided for receiving 1/2 lb. of Red Wiggler Worms (sent on request).

WormWatcher Environmental Educator Kit	22 lbs.	**76575**	**$419.00**

Hanna Instruments® Backpack Lab™ Soil Quality Educational Test Kit
7515

Designed to make lessons accessible and understandable, this portable kit provides an excellent overview of major soil quality topics. Teachers can introduce students to important chemical tests used for evaluating both soil quality and fertility and then tie those measurements to the principles of plant metabolism. The kit combines detailed field-testing procedures, in-depth background information about each parameter, and classroom activities that provide an introduction to each parameter. Through real-world examples, students can gain a better understanding of the relevance of macronutrients and other parameters in everyday life.

Kit includes: Agriculture Combination Test Kit for testing nitrogen, phosphorus, and potassium (N, P, K) with materials for 50 tests of each parameter; Hanna pH/Conductivity/TDS Low-Range Tester; Hanna HI 145 Digital Thermometer; 48-page teacher's manual with a curriculum that meets National Science Teachers Association Standards; parameter summary in PDF and PowerPoint format (on included CD); laminated laboratory instruction cards with step-by-step field test procedures; reproducible lab activity worksheets with instructions, goals, hypothesis, and testing procedure results/observations; glossary of key terms in PDF format (on included CD); and a backpack carrying case that holds all kit components.

Hanna Instruments Backpack Lab Soil Quality Educational Test Kit	6 lbs.	**76661**	**$335.00**
Replacement Batteries; six 1.5V Alkaline	2 oz.	**76206**	**$16.75**

Nitty-Gritty Soil Science Kit
4156

Soil pH and Nutrients

Helps students learn about the type of soil texture, soil pH level, and nutrients a healthy plant requires to grow. Students can test soil for levels of pH, nitrogen, phosphorus, and potassium using non-hazardous, foil-packaged TesTabs®. The kit includes reagents for ten tests for each test factor. Also included are four test tubes with caps, twenty Floc-Ex Extraction TesTabs®, a pipet, and two flower pots. In addition, the Nitty-Gritty Soil Science Handbook includes step-by-step instructions for soil science experiments, interesting soil facts, and educational soil-related games and activities. Designed for ages 8 and up.

Nitty-Gritty Soil Science Kit	10 oz.	**76614**	**$30.25**
		10+	**$28.95**

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The Topsoil Tour
3349

Soil pH, Nitrate, Phosphorus, Potassium

Designed for grades 4 through 8, the Topsoil Tour Kit allows students to investigate soil pH and nutrient levels in their own soil! Each student conducts his own test using simple reagent tablets individually sealed in foil strips. The curriculum materials provide the instructor with easily understood concepts of good and poor soil quality and plant requirements. Each unit includes complete lecture materials, illustrated hand-outs, teacher tips, test procedures, games to reinforce key concepts, and tablets and sample bags for 50 students to test their own soil sample.

The Topsoil Tour	3 lbs.	**76603**	**$79.95**
		3+	**$76.25**
Reagent Refill	14 oz.	**76604**	**$66.80**

The Pondwater Tour
3347

pH, Dissolved Oxygen, Nitrate, Ammonia

Designed for a class of up to 50 students (4th - 8th grades), the Pondwater Tour allows students to test varying levels of pH, dissolved oxygen, nitrate, and ammonia found in local ponds, lakes, and streams. Topics explored include the cycles of a pond, the watershed concept, and the effects of pollution. Included with the Pondwater Tour are hands-on exercises, experiments, and games to help the students understand key concepts; illustrated handouts, lecture materials, and test procedures to help you explain detailed information; foil wrapped reagents; sample bags; and background information to help students interpret results. Reagent refills are available. Kit measures 11˝x 13˝x 2˝.

The Pondwater Tour	3 lbs.	**76620**	**$81.50**
		3+	**$75.75**
Reagent Refills	12 oz.	**76621**	**$61.95**

The Watershed Tour
7020

pH, Chloride, Dissolved Oxygen, Nitrate

Use this classroom-based tour of a virtual watershed to introduce your students to stream and river ecosystems - without visiting a stream! Geared toward students in grades 4 through 8, the Watershed Tour allows students to learn about stream ecology, water quality issues, and their own connection to a watershed. Through a week long series of hands-on tests, games and activities, students will "test" four stations along a river continuum - from the headwaters to the mouth of the river as it enters the estuary - to study how the river changes and how human activities can influence water quality. Lecture materials, illustrated handouts, teacher's tips, test procedures, TesTab reagents and test tubes for 30 students, data sheets and games are included.

The Watershed Tour	4 lbs.	**76607**	**$86.50**
		3+	**$83.50**
Reagent Refill	4 oz.	**76608**	**$14.90**

LaMotte

LaMotte® Soil N-P-K Kit
6813

Specified in The GLOBE™ Program

Determine the high/medium/low concentrations of nitrogen, phosphorus, and potassium in soil. Includes enough TesTab tablet reagents to run 50 tests each for nitrogen, phosphorus and potassium; 1 extraction tube; 3 capped test tubes; 1 eyedropper; laminated comparison color chart; MSDS sheets; and instructions. GLOBE™ Program specified.

LaMotte Soil N-P-K Kit	8 oz.	**77960**	**$28.75**
		6+	**$27.75**

Hydrion™ pH Paper
3353

A simple, fast, precise, and economical method of measuring pH!

Provides clear, definite colors that even your students can read with great accuracy. Kits and papers are available for all your teaching needs.

Brilliant Dispenser

Great for classroom or field use! Using this pH paper, you can determine pH values from 0-13 in 0.5 increments. Convenient dispenser contains two 15´ rolls of paper, one for 0.0 - 6.0 pH ranges and the other for 6.5-13.0 pH ranges. Two color charts are also included. GLOBE Program approved.

pH Paper, Hydrion™			
2 oz.		**78105**	**$10.50**

Dip Stiks

Excellent for general purpose pH testing, this is the ultimate wide range pH paper! It features 14 brilliant, long lasting colors giving instant pH checks over the entire range of 0-13 pH in 1.0 increments. Packed in a clear plastic case with 75 Dip Stiks and one color chart.

Dip Stiks			
2 oz.		**78104**	**$10.25**

WaterSpout I & II 12V DC Purge Pumps page 349

pH Meters page 336

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Science Scene, a free e-magazine available at forestry-suppliers.com

New! pH, Indicators and Dyes STEM Kit
4977

Explore the chemistry behind plant pigments with this hands-on kit! In addition to learning how plant pigments can be used in fabric dyes, students will also create their own pH indicator test strips and evaluate them against a commercial-type strip. Concepts covered in the kit activities include: data analysis, accuracy vs. precision, biopigment structure, pH, pH scale, pH indicators, stains and dyes, acids, bases, acid-base interactions, solutions, and self-ionization of water. The kit contents can accommodate up to 40 students, and materials are included for four detailed activities that feature "model" and "inquiry" investigation paths (a total of 11 investigational activities). A DVD with PDF Teacher and Student Guides and other digital content is also included.

pH, Indicators and Dyes STEM Kit	4 oz.	**76936**	**$56.95**

New! Ink Chromatography and Forensics STEM Kit
4977

This kit provides an exciting introduction to ink chromatography and its application in solving forensics cases. Students will gain experience in creating ink databases and identifying "ink tags" to "date" different inks in order to solve two mysterious cases involving document ink. Concepts covered in the activities include: data analysis, chromatographs, inks and their composition, mixtures, compounds, molecules, solubility, affinity, polar substances, Rf values, capillary action, light energy, fluorescence, and hypothesis testing. Includes materials for three detailed activities (with "model" and "inquiry" investigational paths, a total of four investigational activities) which can accommodate up to 40 students. Also included is a DVD with PDF Teacher and Student Guides and other digital content.

Ink Chromatography and Forensics STEM Kit	3 lbs.	**76939**	**$79.95**

HANNA instruments

Hanna Instruments® Backpack Lab™ Marine Science Education Test Kit
7515

Components are tied together by an extensive teacher's manual that includes useful information, classroom activities and detailed field testing. Kit includes 110 tests each for Acidity and Alkalinity, 100 tests for Ammonia, Carbon Dioxide, Dissolved Oxygen, Nitrate, Nitrogen, Phosphate, Salinity, Conductivity, Temperature and more; Hanna pHep®4 Waterproof pH/Temperature Tester; Hanna DiST®5 Waterproof Conductivity/Total Dissolved Solids (TDS) Tester; hydrometer for salinity; secchi disk for turbidity; laminated laboratory instruction cards with step-by-step field-test procedures; reproducible lab activity worksheets with instructions, goals, hypothesis, and testing procedure results/observations; and a glossary of key terms for classroom display.

Hanna Instruments Backpack Lab Marine Science Education Test Kit	10 lbs.	**76660**	**$347.00**
	2+		**$324.00**

Cleaning Up Oil Spills with Oil Hungry Bacteria
2137

Lab Investigation - Observe the use of microbes for oil degradation!

Model various oil spill scenarios and monitor the effectiveness of the provided freeze-dried oil-degrading microbe mixture in remediating the waste. The students set up a simulated oil spill in water and treat it with the special microbial product to observe the physical changes and degradation of oil film over time. Additionally, they simulate three spill scenarios on beach sand, gravel and cobbles in order to observe the difference in degradation rates. The class also explores bioremediation methods for other waste chemicals and compares their effectiveness to traditional clean-up methods. Designed for a class size of 40 students.

Cleaning Up Oil Spills with Oil Hungry Bacteria	6 lbs.	**76943**	**$79.50**

Porosity of Soils and Waterflow Lab Investigation
4158

An easy-to-understand primer on groundwater.

With this Lab Investigation, students will construct models to test the porosity and permeability of various soils. Using these models, the rate of waterflow can be measured for each type of soil and student observations allow them to gain a better understanding of surface runoff, watersheds, groundwater formation and movement, and aquifers. Kit contains enough material for a class size of 40 students.

Porosity of Soils and Waterflow Lab Investigation	19 lbs.	**76942**	**$69.95**

Aldon Innovating Science™ Environmental Chemistry: Nitrates, Phosphates and Eutrophication
7728

Helps students understand the importance and value of fresh water and the need to protect and conserve this valuable resource. After completing this lab, students should understand the difference between point source and non-point source pollution as well as the role of nitrates and phosphates in the process of eutrophication. Kit includes 1 Nitrate solution (50 ml), 1 Phosphate solution (50 ml), 1 Nitrate/Phosphate solution (50 ml), 60 plastic cups, 1 box of microscope slides, and 1 box of coverslips. Kit contains enough materials for 15 groups plus a Teacher's Manual and Student Study Guide copymasters.

Nitrates, Phosphates, and Eutrophication	3 lbs.	**76672**	**$44.75**

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Earth Science: An Introduction to Geology Display Set
7275

Ideal for introducing students to Earth Science. This set of twelve, 6″ x 5″, fully-labeled exhibit cases come housed in a convenient 12″ x 11″ x 4″ storage box and cover the spectrum of geological study. Exhibits 1-3 include the Sedimentary Rocks, Metamorphic Rocks, and Igneous Rocks. Exhibits 4-6 show Industrial Rocks and Minerals and their applications. Exhibits 7-9 feature Rock and Soil Groups. And, Exhibits 10-12 are sure to get attention with Gemstones, Native Elements, and Mineraloids.

Earth Science Set	5 lbs.	**53987**	**$268.25**

Mineralab Deluxe Hardness Pick Set & Mineral Identification Kit
3180

Use this set to test the hardness of minerals for accurate identification under Mohs' hardness scale ranging from 1 to 10. Kit includes four double-ended picks comprising eight points made of various metals and alloys with Mohs' hardness values numbering 2, 3, 4, 5, 6, 7, 8, and 9. Points are large enough to be resharpened. Kit also includes a grinding stone for sharpening; a glass plate with a hardness of 5.5 which, when scratched, quickly determines a hardness range; a streak plate for testing a mineral's streak color; a magnet for testing magnetic rocks such as magnetite and pyrrhotite; and complete instructions. All tools are packaged in an attractive, compact, mahogany-finished wooden case. 2-1/2″ x 7″ x 2″.

Mineralab Deluxe Hardness Pick Set & Mineral Identification Kit	1 lb.	**33464**	**$88.95**
		3+	**$83.50**

Contour Kit
5525

Demonstrates how contour lines are used to show elevations on maps.

Various elevation lines are drawn on the side of the box. As the box is filled with water to the various elevations, the water line on the model is traced on the plastic lid to show a contour line for each elevation.

Contour Kit	11 oz.	**09779**	**$24.95**
		5+	**$22.95**

Mineral Test Kit
2146

Supplies students with the necessary tools for rock, mineral, and fossil identification. The Test Kit includes streak plate, glass plate, hand lens, dropper bottle, magnet, nail, penny, and hardness scale. Comes in a zip-lock pouch. Grades 4 - 10.

Mineral Test Kit	3 oz.	**77322**	**$9.95**
		10+	**$9.25**

Sand Gauge
3080

Flexible, waterproof plastic card has sand grains ranging from very coarse sand to fine silt permanently fused on plastic card. Additional features include size classification for large clasts, bed thickness classification, roundness chart with actual sand grains, field checklist for organizing notes, geologic time scale, and two carbonate classification charts. Gauge measures 2.5″ x 3.5″ and has nylon string for carrying convenience.

Sand Gauge			
1 oz.		**77326**	**$16.75**
		10+	**$15.50**

Washington School Collection
2629

Includes specimens in the following areas: rock-forming minerals, ore-forming minerals, industrial minerals, and igneous, sedimentary and metamorphic rocks. 40 Specimens, 2″ x 1-1/2″. Comes in a compartmented container.

Washington School Collection			
6 lbs.		**33423**	**$59.00**
		5+	**$56.00**

Fossil Hunt Kit
2142

The 6 large "teacher" fossils in this kit allow students to learn about fossils before discovering and identifying the 12 smaller fossils hidden in the gravel mixture. A magnifier, forceps and a teacher's guide are all included in a sturdy storage box. Recommended for grades 6-12.

Fossil Hunt Kit			
1 lb.		**76962**	**$22.95**
		10+	**$19.95**

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Educational Classroom Posters

4481

These laminated posters cover a wide range of educational topics.

Ecology of Vernal Pools Educational Poster page 434

Minerals

Features 162 specimens, carefully selected to include those most likely to be encountered by collectors. Photos show a diversity of color, habit, lustre and crystals and are presented by class: native elements, carbonates, sulfates, sulfides, halides, oxides, phosphates, organics and silicates. **Dimensions:** 36˝W x 24˝H

Minerals 12 oz. **12037** **$13.50**

Butterflies of the World

Over 100 of the most colorful butterfly species are shown on this poster along with globe and arrow icons showing where they live. Several moth species are also included! **Dimensions:** 36˝W x 24˝H.

Butterflies of the World 12 oz. **12024** **$13.50**

Introduction to Rocks

Explains that each type of rock is the result of a specific mixture of minerals subjected to a clearly defined geological process. Poster is divided into 3 sections: Igneous Rocks, Sedimentary Rocks, and Metamorphic Rocks. Bonus section explains some of the more specialized and poplular rocks. **Dimensions:** 24˝W x 36˝H.

Introduction to Rocks
12 oz. **12036** **$13.50**

North American Wildflowers

This poster features beautiful illustrations of some of the most popular and colorful wildflower varieties. Each flower's common and scientific name is listed. **Dimensions:** 24˝W x 36˝H.

North American Wildflowers
11 oz. **12022** **$13.50**

Plant Kingdom

The ten divisions of the plant kingdom are represented on this poster with large, detailed illustrations and accompanying descriptions. Extinct species which are of special importance to paleontologists are also shown. **Dimensions:** 24˝W x 36˝H.

Plant Kingdom
12 oz. **12025** **$13.50**

Backyard Birds

The vibrant, detailed illustrations of this poster show the most common birds in North America. Both male and female birds of selected species are shown to illustrate differences in markings. **Dimensions:** 24˝W x 36˝H.

Backyard Birds
12 oz. **12028** **$13.50**

Insect Identification Chart

The unique branching system on this poster shows examples of all insect orders and includes brief descriptions and illustrations of common species. The poster also includes a section focusing on insect anatomy. **Dimensions:** 24˝W x 36˝H.

Insect Identification Chart
12 oz. **12027** **$13.50**

Arthropods

Arthropods are the most abundant animals on Earth, but are often misunderstood. This poster explores each of the five clades and features highly detailed illustrations of 98 species - many life-size. Plus, all are identified by both common and scientific name. **Dimensions:** 24˝W x 36˝H.

Arthropods
12 oz. **12038** **$13.50**

Animal Kingdom

Featuring all existing and extinct phyla of the animal kingdom, this poster offers descriptions and highly detailed scientific illustrations for each representational species. **Dimensions:** 24˝W x 36˝H.

Animal Kingdom
11 oz. **12023** **$13.50**

North American Snakes

This poster presents the most widespread North American species of snakes. It makes it easy to tell if a particular snake is a threat, as the graphic design divides them into non-venomous (green background) and venomous (red background) species. **Dimensions:** 24˝W x 36˝H.

North American Snakes
12 oz. **12039** **$13.50**

[search engine powered by magazooms.com]

New! 4D Science™ Plant Cell Model
4861

A must-have for exploring the world of plant cells! Exceptionally detailed, this 6″ model includes 24 detachable, hand-painted parts and features a transparent housing that allows for easy viewing. In addition to descriptions of plant anatomy and how a plant cell works, the model comes complete with an illustrated assembly guide and a display stand.

4D Science Plant Cell Model	2 lbs.	**59261**	**$30.95**

New! Bio Signs Plant Cell Model
4863

Featuring close-up, layered detail, this 10-piece model provides a magnified look at the cross section of a plant cell. A fact card identifies each cell part, and an included guide is packed with additional information. Display stand also included.

Bio Signs Plant Cell Model	12 oz.	**59267**	**$13.95**

New! 4D Vision™ Cow Anatomy Model
4862

This cow anatomy model stands 6.5″ tall and includes 29 detachable, hand-painted organs and parts. Detailed descriptions of the cow's life cycle and eating habits encourage additional learning. An illustrated assembly guide and display stand are included.

4D Vision Cow Anatomy Model	1 lb.	**59263**	**$30.95**

New! 4D Vision™ Chicken Anatomy Model
4862

With 32 detachable, hand-painted organs and body parts, this 8″H model provides a detailed look at the anatomy of the chicken. Offering a valuable addition to classroom curriculum, the model comes complete with an illustrated assembly guide, a display stand, and descriptions of the chicken's life cycle and eating habits.

4D Vision Chicken Anatomy Model	15 oz.	**59262**	**$30.95**

New! 4D Vision™ Frog Anatomy Model
4860

Incredibly detailed, this 6″L frog model features 31 detachable, hand-painted organs and body parts. Also includes an illustrated assembly guide and descriptions of the anatomy, life cycle, and eating habits of the frog. Display stand included.

4D Vision Frog Anatomy Model	1 lb.	**59265**	**$30.95**

New! 4D Vision™ Full Skeleton Frog Anatomy Model
4860

This 8″L frog anatomy model includes 17 detachable, hand-painted organs and parts that are visible through the transparent body. Includes an illustrated assembly guide as well as descriptions of the frog's anatomy, life cycle, and eating habits. Display stand included.

4D Vision Full Skeleton Frog Anatomy Model	9 oz.	**59260**	**$22.75**

New! 4D Vision™ Crocodile Anatomy Model
4860

Designed for interactive learning, this 15″L crocodile model features 26 detachable, detailed, hand-painted organs and body parts. Broaden your knowledge with descriptions of the crocodile's anatomy, life cycle, and eating habits. An illustrated assembly guide and display stand are included.

4D Vision Crocodile Anatomy Model	2 lbs.	**59264**	**$30.95**

New! 4D Vision™ Great White Shark Anatomy Model
4860

Get a glimpse inside the great white shark with this 13″L model! The anatomy model incorporates 20 detachable, detailed organs and body parts. An illustrated guide book and display stand are also included.

4D Vision Great White Shark Anatomy Model	1 lb.	**59266**	**$30.95**

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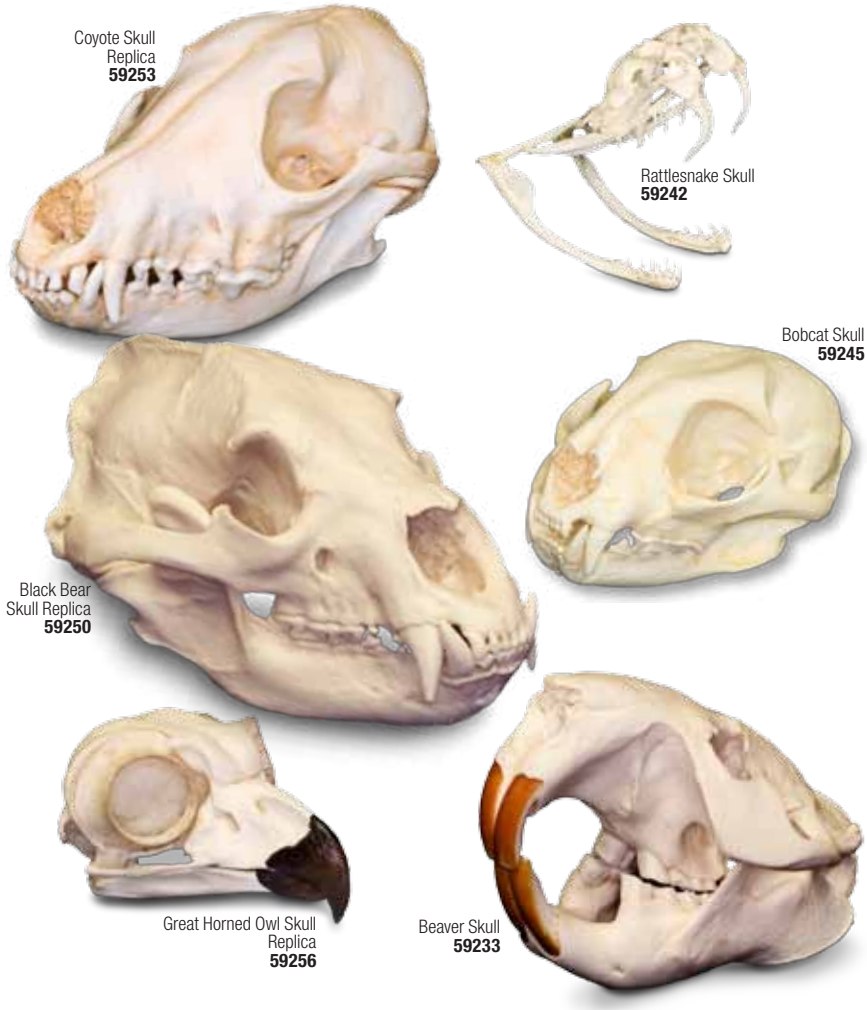


Animal Skulls
8578

Skulls are very valuable teaching aids in the classroom or nature center when used to focus on dietary habits (food chains), predator/prey relationships, anatomy, biology, ecology, habitats, adaptation/evolution, animal behavior, and much more.

Natural Bone Skulls

All natural bone specimens are legally and ethically obtained from natural and predator deaths, road kills, food source by-products, legal hunting and trapping operations, and from attrition in zoological gardens.

Muskrat Skull	8 oz.	**59231**	**$40.50**
Coyote Skull	1 lb.	**59232**	**$79.65**
Beaver Skull	1 lb.	**59233**	**$79.50**
Mink Skull	8 oz.	**59234**	**$40.50**
Raccoon Skull	8 oz.	**59235**	**$79.50**
Striped Skunk Skull	8 oz.	**59236**	**$44.95**
Tree Squirrel Skull	8 oz.	**59237**	**$44.95**
Opossum Skull	8 oz.	**59238**	**$57.75**
Rabbit Skull	8 oz.	**59239**	**$52.95**
Rattlesnake Skull	8 oz.	**59242**	**$67.95**
Red Fox Skull	12 oz.	**59243**	**$79.75**
Mouse Skull	8 oz.	**59244**	**$31.25**
Bobcat Skull	8 oz.	**59245**	**$95.00**

Replica Skulls

These replica skulls provide the opportunity to study specimens (some rare or endangered) without impacting the environment. Replica skulls are constructed according to precise anatomical specifications to maintain the highest standards of excellence.

Whitetail Doe Skull	2 lbs.	**59248**	**$129.75**
Black Bear Skull	2 lbs.	**59250**	**$176.25**
Bobcat Skull	8 oz.	**59251**	**$82.50**
Mountain Lion Skull	12 oz.	**59252**	**$196.95**
Coyote Skull	8 oz.	**59253**	**$82.50**
Opossum Skull	1 lb.	**59254**	**$57.50**
Beaver Skull	1 lb.	**59255**	**$82.50**
Great Horned Owl Skull	8 oz.	**59256**	**$130.25**

New Path Learning Owl and Owl Pellets Set
7808

Curriculum Mastery Flip Charts

Mounted on a sturdy easel and features 10 Double-sided, laminated 12″ x 18″ charts including Owls - Birds of Prey, The Barn Owl, Owl Food Web, Owl Pellets, Dissecting an Owl Pellet, Rodent Skeleton, Vole Skeleton, Mole Skeleton, Shrew Skeleton, and Bird Skeleton. Side 1 includes a colorful, graphic overview of the topic while Side 2 serves as a "write-on/wipe-off" activity chart featuring questions, labeling exercises, vocabulary review and more! Complete with an activity Guide featuring black-line copy-masters and exercises.

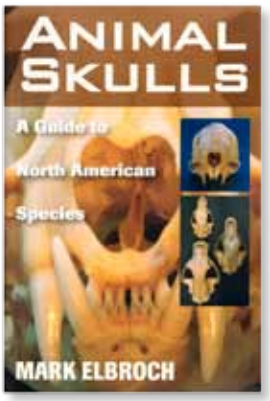
Owl and Owl Pellets Set	2 lbs.	**12012**	**$35.95**

Owl Pellet Study Kit
6767

A different method for studying food chains, populations and ecology.

Students dissect barn owl pellets consisting mostly of bones, teeth, hair and feathers. Then they examine and identify the contents with the individualized illustrated worksheets. Pellets have been fumigated, sterilized, and are individually wrapped. Kit contains enough material for 15 lab groups of 2 students each for 1 class.

Owl Pellet Study Kit	1 lb.	**12013**	**$83.95**
		3+	**$80.75**
Refill with 30 Owl Pellets	4 oz.	**12014**	**$86.95**
		3+	**$83.25**



Animal Skulls
8294

An invaluable reference with life-size drawings and detailed measurements.

By Mark Elbroch. Stackpole Books, 2006. This uniquely thorough reference and guidebook offers illustrations, descriptions, and measurements for the skulls of some 275 animal species found throughout North America. Describes in both words and pictures, the bones and regions of the skull important to identification, including illustrations of all the bones in the cranium, leading to a greater understanding of a creature's place in the natural world. 6″ x 9″. Paperback. 740 Pages.

Animal Skulls	3 lbs.	**59929**	**$46.95**

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Wingscapes® WildlifeCam®
4840

This motion-activated 8 megapixel camera provides crisp, color photos and videos both day and night using a white flash. A rugged, weatherproof housing protects the camera. Includes mounting bracket, mounting strap, user guide, and focusing aid.

Camera Resolution: 8 megapixels. **Photo Resolution:** Low, 640x480; Medium, 1920x1080; High, 2592x1944; Maximum, 3264x2448. **Video Resolution:** 640x480 (10 fps). **Lens Field of View:** 42 degrees. **Focus Distance:** 6″ to infinity. **Memory Type:** Up to 32 GB SD card (not included). **Power:** Six C cell batteries. **Battery Life:** Average of six months.

Wingscapes WildlifeCam	2 lbs.	**91585**	**$109.95**
8.0 GB SD High Capacity Card	1 oz.	**02516**	**$15.50**
C cell Alkaline Battery, single	3 oz.	**02181**	**$1.85**

Wingscapes® BirdCam Pro® Digital Wildlife Camera
page 387

Wingscapes® TimelapseCam Pro®
4839

Ideal for tracking the progress of projects from beginning to end, this 10 megapixel, high resolution time lapse camera captures images at set intervals. The camera utilizes a white flash for brilliant color photos and videos, day or night. An adjustable lens provides sharp focus on subjects as close as 6″. Quickly preview images on the 2″ color screen, and create time lapse videos with user-friendly software. The weatherproof housing provides excellent protection. Mounting bracket, mounting strap, user guide, and focusing aid included.

Camera Resolution: 10 megapixels. **Photo Resolution:** Low, 1280x720; Medium, 2304x1296; High, 3008x1692; Maximum, 4224x2376. **Video Resolution:** 640x480 (10 fps); 5, 10, 30, or 60 second duration. **Operational Modes:** Auto/time lapse delay, variable, 10 seconds to daily. **Lens Field of View:** 42 degrees. **Focus Distance:** 6″ to infinity. **Memory Type:** Up to 32 GB SD card (not included). **Power:** Six C cell batteries. **Battery Life:** Average of six months.

Wingscapes TimelapseCam Pro	2 lbs.	**91584**	**$149.95**
8.0 GB SD High Capacity Card	1 oz.	**02516**	**$15.50**
C cell Alkaline Battery, single	3 oz.	**02181**	**$1.85**

New! Wingscapes® TimelapseCam
4839

By capturing photos at set intervals, this 8 megapixel time lapse camera allows you to quickly review the progress of a project! Easy-to-use software enables you to create time lapse videos of the images. A tough, weatherproof housing ensures outstanding protection of the camera. Includes mounting bracket, mounting strap, user guide, and focusing aid.

Camera Resolution: 8 megapixels. **Photo Resolution:** Low, 640x480; Medium, 1600x1200; High, 2592x1944; Maximum, 3264x2448. **Operational Modes:** Auto/time lapse delay, variable, 10 seconds to daily. **Lens Field of View:** 42 degrees. **Focus Distance:** 6″ to infinity. **Memory Type:** Up to 32 GB SD card (not included). **Power:** Six C cell batteries. **Battery Life:** Average of six months.

Wingscapes TimelapseCam	2 lbs.	**91583**	**$99.95**
8.0 GB SD High Capacity Card	1 oz.	**02516**	**$15.50**
C cell Alkaline Battery, single	3 oz.	**02181**	**$1.85**

Wingscapes® Accessories
4839

Mounting Arm -
Mounts to any bird feeder pole with an outside diameter of 0.5″ to 1.5″ or to any post, tree, or wall. Connects to the standard tripod mount on the bottom of the camera system. Swivels 360 degrees.

Mounting Arm	2 lbs.	**91544**	**$14.95**

AC Power Adapter -
Features a 6′ cord. For indoor use only.

AC Power Adapter	6 oz.	**91545**	**$15.25**

Solar Power Panel -
Solar panel with built-in 12V battery ensures constant power in the field. Mounts to a tree, pole, or Universal Tripod. Includes 10′ cord.

Solar Power Panel	3 lbs.	**91546**	**$70.25**

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New! Lineco® White Neutral pH Adhesive

4895

Archival-safe glue for use in restoration, preservation, exhibition, and conservation.

Formulated especially for preservation materials, this acid-free adhesive adheres to most porous surfaces and will not become brittle with age. The adhesive dries clear and has excellent lay-flat properties. In addition, the fast-setting polyvinyl acetate (PVA) formula can be remoistened with water.

4 oz. Dispenser Bottle	5 oz.	**53844**	**$6.25**
8 oz. Dispenser Bottle	10 oz.	**53845**	**$9.25**
One Quart Bottle	2 lbs.	**53846**	**$29.95**
One Gallon Bottle	8 lbs.	**53847**	**$55.95**
Dispenser Pump for One Gallon Bottle, Use this rugged, reusable plastic pump to dispense the adhesive from a gallon bottle.	2 oz.	**53848**	**$9.45**

Botany Dissection Kit

8110

Contains all the necessary tools required for plant study, dissection and analysis. Tools are made with stainless steel unless stated otherwise. Contents: 1 angular teasing needle; 1 straight teasing needle straight; 1 6″ ruler; 4.5″ curved fine point forceps; 4.5″ medium point forceps; 4.5″ Iris scissors; 1 scalpel with ten No. 10 Blades; 1 glass dropper; replacement straight needles; replacement angular needles; and a black vinyl zippered case.

Botany Dissection Kit	8 oz.	**53872**	**$16.25**
		10+	**$14.95**
		20+	**$14.50**

Botany Paste

5293

A superior paste used for mounting. Bottle contains 2 oz. of paste.

Botany Paste	4 oz.	**53807**	**$7.20**
		12+	**$6.20**

Accu-Scope® Binocular Zoom Stereo Microscope page 451

BioQuest® Tree Growth Study Kit

1419

Show your students variations of different tree species by comparing internal appearance and color of a tree's growth pattern.

Students will learn how seasonal growth changes the appearance of layers of growth within the tree, producing annual rings. Students can estimate annual rings of three different tree rounds. Kit includes three tree rounds (one each of oak, pine and walnut), a hand magnifier, colored marking pins, a tree cross-section diagram, a metric ruler, reproducible student and teacher guides, activity sheets and the Golden Guide Book of Trees. Grades 6-10.

BioQuest Tree Growth Study Kit	1 lb.	**94715**	**$43.50**
		5+	**$41.50**

BioQuest® BioDiversity Tree Study Kit

1420

Examine six different varieties of tree species from a temperate climate region of North America.

Features information on biodiversity of hardwood and softwood trees along with directions for hands-on exercises for comparing similar internal tree structures and identifying variations between species. Includes six assorted tree rounds (two softwood and four hardwood), 15 hand magnifiers, 15 metric rulers, colored marking pins, 15 reproducible student study guides, reproducible student activity sheets, teacher's study guide, and tree round information sheet.

BioQuest BioDiversity Tree Study Kit	2 lbs.	**94716**	**$69.95**
		3+	**$66.95**

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Plant Press
5288

Oak frame with two 84″ heavy-duty straps with sliding buckles provided. 12 Driers and 12 ventilators. Substantial, yet lightweight. Measures 12″ x 18″.

Professional Plant Press with Brass Rivets	6 lbs.	**53739**	**$66.25**
		3+	**$61.50**
Standard Plant Press	6 lbs.	**53674**	**$57.95**
		3+	**$53.50**

Student Plant Press
5291

These economical presses fit into even the tightest budgets! Two sizes available. Both use cotton web straps with buckles and twin, 1/4″ thick plywood frames with 1/4″ thick oak edge strips to ensure uniform pressure. Includes 12 Driers, 12 ventilators, and two web straps. 3-1/2″ High.

Small Plant Press, 6″ x 9″	2 lbs.	**53713**	**$21.25**
Driers		3+	**$19.75**
Large Plant Press, 12″ x 18″	6 lbs.	**53801**	**$55.25**
Driers		6+	**$50.75**

Mini Plant Press
5292

A portable and practical mini-herbarium for field identification of plants. Consists of two pieces of masonite pegboard, cards, and two strong rubber bands. For replacement driers, order 53740 and trim to size.

Mini Plant Press, 3″ x 5″,	5 oz.	**53808**	**$8.40**
pk of 12 Driers		12+	**$7.70**
Mini Plant Press, 5″ x 8″,	13 oz.	**53721**	**$7.60**
pk of 10 Driers		10+	**$6.90**

BioQuip Plant Press Straps
8657

Fabricated from non-slip polyester webbing, with spring buckles secured by stitching. Strap ends are heat sealed to prevent fraying. Set of two.
Dimensions: 1″W x 84″L.

BioQuip Plant Press Straps	5 oz.	**53738**	**$15.75**

Standard Ventilators
5289

Use with plant presses to evacuate moisture from collected plant specimens. Two-faced corrugated "A" flute. Corrugations run the short dimension. 12″ x 18″. Package of 12.

Standard Ventilators	2 lbs.	**53741**	**$8.95**
		12+	**$7.75**

Standard Driers
5290

Good moisture absorption. May be dried out and reused. 12″ x 18″. Package of 12 (0.020″; white).

Standard Driers	1 lb.	**53740**	**$8.75**
		12+	**$7.95**

Genus Cover
5295

Heavy jute manila stock. 17″ x 24″ open, 17″ x 12″ folded. Box of 100.

Genus Cover	12 lbs.	**53759**	**$55.75**

Botanical Mounts
5294

For mounting pressed botanical specimens and other thin objects. Glass top is backed by a thin layer of white jeweler's fiber on heavy cardboard. Black embossed paper flaps around edge of glass are pre-gummed for attaching the back after specimen is mounted.

6-1/2″ x 8-1/2″	10 oz.	**53803**	**$6.50**
		12+	**$6.25**
12″ x 16″	2 lbs.	**53805**	**$11.95**
		12+	**$10.25**

Mounting Cards
5296

Regular Mounting Cards

Heavy tag stock. 11-1/2″ x 16-1/2″. Box of 100. Not acid-free.

Regular Mounting Cards	5 lbs.	**53760**	**$28.95**

Acid-Free Rag Mounting Cards

Acid-free white paper has 100% rag content with neutral pH factor. 11-1/2″ x 16-1/2″. One dozen.

Acid-Free Rag Mounting Cards	11 oz.	**53784**	**$13.70**
		12+	**$11.95**

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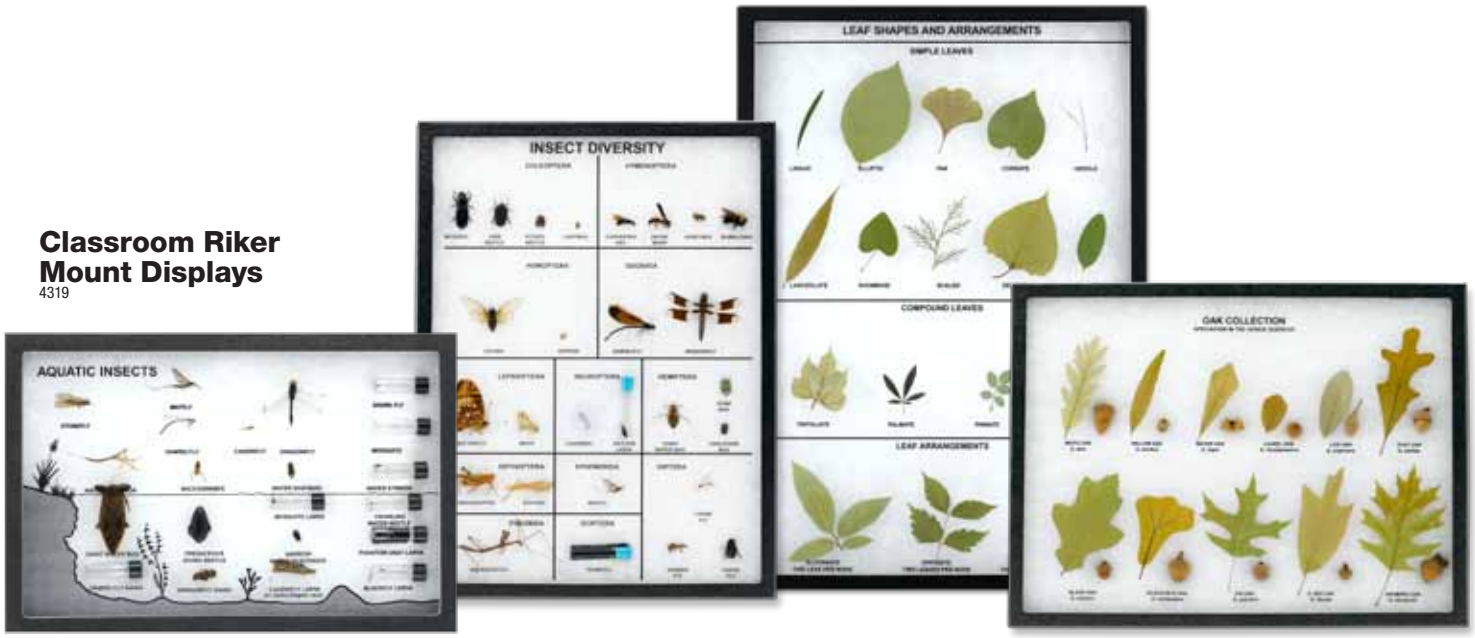
Classroom Riker Mount Displays
4319



Aquatic Insects
A collection of 21 common aquatic specimens which demonstrates the diversity of insect life in streams, ponds, and lakes. This 12″ x 8″ display features the larval and adult stages of various insects.

Aquatic Insects 1 lb.	**53968**	**$78.25**

Insect Diversity
Provides an overview of the diverse Insecta class by featuring 27 native species covering 12 common orders. One to four specimens are shown for each order to demonstrate the diversity among and within the groups on this 12″ x 16″ display.

Insect Diversity 2 lbs.	**53965**	**$88.95**

Leaf Shapes and Arrangements
Illustrates the most common leaf shapes and arrangements. Simple and compound leaves are shown in various shapes. Alternate, opposite, and whorled arrangements are featured on this fully-labeled 14″ x 21″ display.

Leaf Shapes and Arrangements 4 lbs.	**53960**	**$89.25**

Oak Collection
The leaves and acorns of various types of oak trees are featured on a 16″ x 12″ mount to help illustrate the diversity of these closely-related species within the genus Quercus.

Oak Collection 2 lbs.	**53962**	**$65.75**

Leaves and Seeds of Common Trees Identification Mounts Series
4320

A vital reference tool for leaf and seed studies!

This set includes 16 individual mounts of leaves and seeds of commonly found trees. The leaves and twigs of each tree are pressed, and the fleshy fruits (from trees such as the Red Mulberry and Black Tupelo) are freeze-dried for excellent presentation. The back of each 5″ x 8″ mount includes each tree's common and scientific names, family, leaf arrangement, leaf type, mature height, fruit type, and natural habitat. The mounts are housed in a filing bin for quick reference and convenient storage.

Leaves and Seeds of Common Trees Identification Mounts Series	1 lb.	**53970**	**$70.50**
	3+		**$63.95**

Leaf Identification Kit™
3357

Hands-on teaching with real samples!

Introduces you to the essential science skills of inquiring, observing, predicting, classifying, measuring, comparing, collecting and analyzing data. Kit contains the following: Teacher's Guide; hands-on activities; 13 different species; and keys for unknowns in kit. Samples are carded, labeled, and bagged. Games kit contains matching, counting, measuring, classifying, shape, collecting, picture, detective, and travel games for leaves. For grades 1 - 12.

Leaf Identification Kit	15 oz.	**94718**	**$39.95**

Finder Books
3359

Excellent for use in the field.

Invaluable pocket guides to mammal tracks of eastern North America; the identification of spring wildflowers and flower families; characteristics of deciduous trees in winter and trees during spring and summer. Softcover. Each book is 64 pages and measures 6″ x 4″ x 3/16″.

Tree Finder Book	2 oz.	**94711**	**$4.95**
Flower Finder Book	2 oz.	**94708**	**$4.95**
Track Finder Book	2 oz.	**94709**	**$4.95**
Winter Tree Finder Book	2 oz.	**94712**	**$4.95**

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Standard Insect Box
5282

Top quality insect storage box.

Made of heavy cardboard, covered with black skytogen embossed paper, and lined with white glaze paper. Cover has nickel-plated hinges for durability and overlaps neck for protection of specimens. Includes 3/8″ pinning board covered with white ethafoam on bottom of box. Outside measurements 10-1/8″ x 12″ x 2-1/2″. Inside depth 1-7/8″.

Standard Insect Box	1 lb.	**53800**	**$15.25**
		12+	**$13.75**
		24+	**$12.25**

Spreading Boards
5281

Designed for those who prefer a longer pinning board.

The 3/16″ pinning strip is rigidly placed, allowing the pin to be positioned at any point along the shaft by pinning entirely through the balsa strip. The vertex is located so that sufficient clearance permits mounting the insect at the top third of the pin. A 1/8″ hardboard floor under the board prevents accidental disturbance of pinned insects from the bottom. Groove is adjustable 0 to 13/16″. Board is 5-1/2″ x 14″.

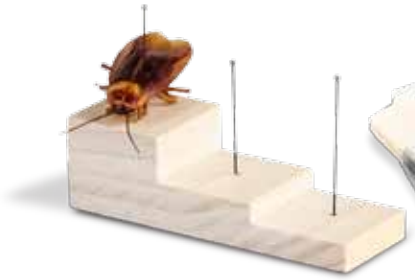
Spreading Boards	1 lb.	**53764**	**$36.75**
		12+	**$33.95**

Versaboard Spreading Board
2238

Ideal for field use!

This styrofoam spreading board has five grooves ranging in width from 1/8″ to 5/8″ which can accommodate most butterfly and moth specimen sizes. Deep grooves allow for exact positioning using any pin length. Board is 11″L x 17″W x 1-3/4″ thick.

Versaboard Spreading Board	4 oz.	**53749**	**$9.95**
		12+	**$8.25**



Pinning Block and Insect Pins
5283

Hardwood Pinning Block

Three-step style with pin holes. Sets at 23 mm, 12 mm and 7 mm.

Hardwood Pinning Block			
1 oz.		**53730**	**$3.10**
		12+	**$2.65**

Morpho Brand Insect Pins

Nylon heads on spring steel pin shafts. 37 mm Long. Black enamel finish resists rust. Box of 100.

Pins Model	Size 0	1	2	3	4	Weight	Each	10+
1207B	**53731**	**53732**	**53733**	**53734**	**53735**	1 oz.	**$7.80**	**$7.15**

Glassine Envelopes
2237

Use these opaque, end-opening envelopes for temporary storage of insect specimens in the field. 3-3/4″ x 5″. Pack of 100.

Glassine Envelopes, Pack of 100			
5 oz.		**53761**	**$4.50**
		10+	**$3.95**
		20+	**$3.60**

Bug Boxes
2171

Perfect for observation in the field or classroom!

These clear plastic boxes feature magnification circles on top for safe viewing of live arthropods. Square boxes have friction fit lids. Two sizes available.

1″ x 1″ x 7/8″ Bug Box with 4x Magnification			
1 oz.		**53744**	**$2.20**
		12+	**$2.05**
		24+	**$1.70**
1-1/2″ x 1-1/2″ x 1-1/2″ Bug Box with 3x Magnification			
1 oz.		**53745**	**$3.95**
		12+	**$3.60**
		24+	**$3.10**

Plastic Tubes
2239

These clear styrene tubes with snap-on caps are ideal for use in the field or lab. Convenient for temporary holding of live insects. The tubes can hold alcohol for a short period but are not compatible with ethyl acetate. Two sizes available. Sold by the dozen.

5 dram Plastic Tube, 13/16″ x 2-1/16″ ID			
3 oz.		**53763**	**$3.95**
		12+	**$3.30**
25 dram Plastic Tube, 1-1/2″ x 3-5/16″ ID			
10 oz.		**53762**	**$8.70**
		12+	**$7.50**

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Killing Jars
5275

Glass jars with metal lids have red skull and crossbones for safety and are sold without killing agent. Uses a cartridge to contain the killing agent.

4 oz. Capacity		
5 oz.	**53769**	**$4.95**
	12+	**$4.50**
16 oz. Capacity		
14 oz.	**53737**	**$6.70**
	12+	**$6.25**

Aspirator
5274

Capture insects too small to be picked up with forceps. Two, 1″ x 2-3/4″ plastic containers are supplied. Aluminum intake and exhaust tubes. 18″ Latex mouthpiece. Nylon mesh in exhaust tube prevents inhalation of insects.

Aspirator		
3 oz.	**53758**	**$11.50**
	12+	**$10.50**

Riker Mounts
5276

For mounting specimens without pins. Soft white cotton filling holds insect, plant, or mineral specimen against glass top. 3/4″ Deep.

5″ x 6″		
7 oz.	**53742**	**$5.95**
	12+	**$4.95**
8″ x 12″		
1 lb.	**53743**	**$9.20**
	12+	**$7.90**
12″ x 16″		
2 lbs.	**53753**	**$13.25**
	12+	**$11.25**

Student Insect Collecting & Mounting Kit
5277

Ideal for secondary level students or beginning collectors.

Contains: 12″ diameter nylon aerial collecting net with an 18″ hardwood handle; fiberboard insect box with pinning bottom (9″ x 13″ x 2-1/2″); two pocket-type, 4 oz. killing jars with plaster; 8 dram vial of nontoxic ethyl acetate killing fluid; spade tip, nickel-plated forceps; spreading board with 12″ foam pinning surfaces and variable groove of 1/8″ to 3/4″; three-step hardwood pinning block; pack of 100 insect pins, size 2 or 3; 50 glassine envelopes (2-3/4″ x 4-1/4″); 60 blank labels, index stock (7/8″ x 1/2″); two fumidors, naphthalene cones on mounting pins; label pen and point, crow quill; illustrated instruction book.

Student Insect Collecting & Mounting Kit		
2 lbs.	**53729**	**$52.95**
	3+	**$50.50**

Clip Boards page 21

Cornell University Insect Cabinets
5285

Designed for optimum security of insect collections.

Dead air space provided in sides, top and door; fumigant area provided in bottom. Steel drawer support. **Note:** All cabinets are shipped motor freight.

Model 2512S

Steel-covered cabinet holds 12 Cornell drawers (drawers not included, order separately, SN 53723). **Dimensions:** 43″H x 22″W x 20″D.

Model 2512S, Steel-Covered Cabinet Only, Gray		
155 lbs. Ⓕ	**53720**	**$955.00**

Cornell University Cabinet Insect Drawer
5286

Custom built storage.

Basswood construction with 5/16″ polyethylene foam pinning bottom. Brass lid locks, drawer pull knobs, and card holders (2). 18 Ounce glass top. Inside dimensions are 17-3/4″W x 15-1/4″D x 2-1/4″H.

Model 1013AF		
6 lbs.	**53723**	**$81.25**

Pocket Magnifiers page 458

Ⓕ Ships Motor Freight.
See Shipping Information for details.

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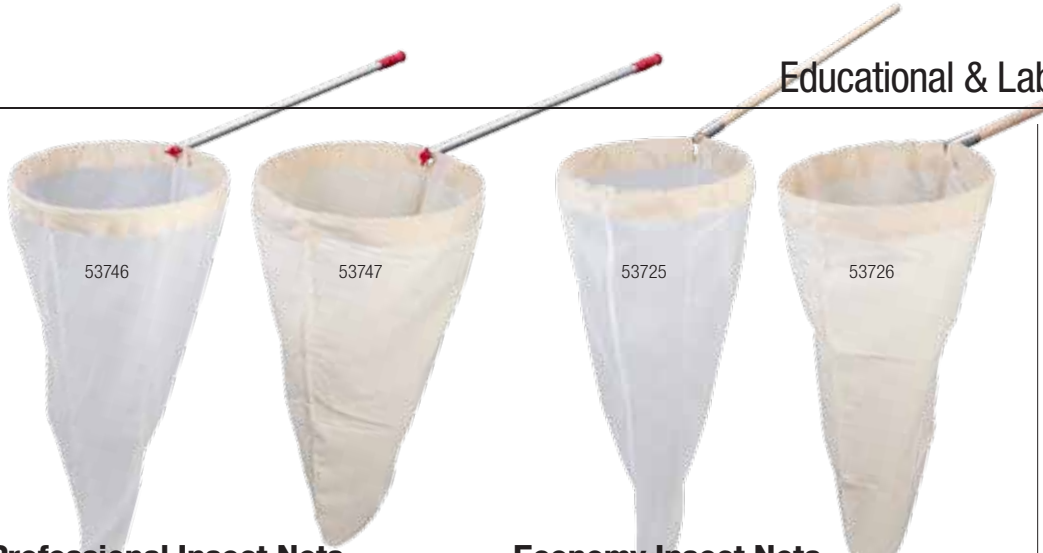

Professional Insect Nets
5278

Strong, yet lightweight net of polyester or muslin material, for years of collecting service. Aluminum handle is 3′ x 3/4″ in diameter. Zinc-plated spring steel hoop.

15″ Hoop, Aerial/Polyester	13 oz.	**53746**	**$37.75**
		12+	**$34.95**
Replacement Net	3 oz.	**53748**	**$12.50**
15″ Hoop, Med. Sweep/Muslin	14 oz.	**53747**	**$39.25**
		12+	**$34.95**
Replacement Net	4 oz.	**53752**	**$13.95**

Economy Insect Nets
5279

General utility net of polyester or muslin material. Sanded birch handle is 3′ x 3/4″ diameter. Zinc-plated spring steel hoop.

12″ Hoop, Aerial/Polyester	13 oz.	**53725**	**$18.95**
		12+	**$18.25**
12″ Hoop, Med. Sweep/Muslin	13 oz.	**53726**	**$20.75**
		12+	**$19.95**
15″ Hoop, Aerial/Polyester	14 oz.	**53727**	**$21.25**
		12+	**$20.50**
15″ Hoop, Med. Sweep/Muslin	1 lb.	**53728**	**$23.95**
		12+	**$23.25**

Heavy-Duty Sweep Net
5280

For sweeping fields or using in heavy brush. Hardwood handle is 2′ long. Stiff, zinc-plated steel net hoop is 15″ diameter. Net bag is rugged sailcloth, banded at top with sail tape.

Heavy-Duty Sweep Net 1 lb.		**53698**	**$34.95**
		5+	**$32.95**
Replacement Net 6 oz.		**53699**	**$21.50**

Insect Net
6961

24″ Deep, white micro-mesh net. 15″ Monorail bow prevents wear around hoop. 1″ x 36″ Aluminum handle with foam grip.

Insect Net 1 lb.		**53639**	**$19.75**
		5+	**$18.75**
		10+	**$16.95**
Replacement Net 2 oz.		**53640**	**$9.25**

Student Insect Net
2240

This sweep net is 30″ deep and features a 12″ dia. hoop and 24″L handle.

Student Insect Net 13 oz.		**53672**	**$16.95**
		10+	**$14.25**

Entomological Dissection Kit
7274

Designed for insect studies. Kit contains: one 4.5″ microdissection forceps, one 4.5″ curved microdissection forceps, one 4.5″ long point entomology forceps, one 4.25″ short point entomology forceps, two straight handle plastic teasing needles, two curved plastic handle teasing needles, one pair 4.5″ Iris scissors, one #3 Scalpel, ten #10 Scalpel blades, a double fold vinyl case and a 6″ plastic ruler.

Entomological Dissection Kit	6 oz.	**53873**	**$18.90**
		10+	**$15.90**

Insect Identification Chart
4481

The unique branching system on this poster shows examples of all insect orders and includes brief descriptions and illustrations of common species. The poster also includes a section focusing on insect anatomy. **Dimensions:** 24″W x 36″H.

Insect Identification Chart 12 oz.		**12027**	**$13.50**

Tree Tanglefoot Pest Barrier
1967

Non-drying, sticky compound traps and/or repels insects. Apply as a band around tree trunks to prevent climbing-crawling insects from reaching leaves, buds, or fruit. Will not wash off in rain. Contains no pesticides or poisons.

5 lb. Tub 5 lbs.		**79099**	**$38.25**
		4+	**$35.75**

Stops the Sting!™ page 646

[search engine powered by magazooms.com]

Safety Scalpel
5301

Nickel-plated forged steel with screw lock to hold blade firmly in place.

Scalpel			
1 oz.		**53772**	**$2.25**
		12+	**$1.75**
Replacement Surgeon's Blades; pack of 10 blades			
1 oz.		**53775**	**$4.50**
		12+	**$3.65**

Nickle Plated Steel Light Mall Probe
5300

Six-sided handle. Tapered probe end with 1/4″ rounded tip angled at 30°. 6″L.

Light Mall Probe			
1 oz.		**53795**	**$1.45**
		10+	**$1.00**

Straight Teasing Needle
2248

Stainless steel needle. Durable plastic handle. Pack of 12.

Straight Teasing Needle, Pack of 12			
2 oz.		**53850**	**$8.10**
		12+	**$7.35**

Glass Eyedropper
5303

This dropping pipette is 4-1/2″L, made of glass, and features a rubber bulb. **Capacity:** 2 ml.

Glass Eyedropper			
1 oz.		**53679**	**$0.50**
		12+	**$0.35**
		24+	**$0.30**

Forceps
5302

For the lab professional who demands precision.

12″ Curved Aquatic Forceps
Stainless steel with serrated tips for excellent grip.

12″ Curved Aquatic Forceps	3 oz.	**53826**	**$7.95**

12″ Straight Aquatic Forceps
Stainless steel with serrated tips for excellent grip.

12″ Straight Aquatic Forceps	3 oz.	**53827**	**$7.95**

10″ Specimen Forceps
Chrome-plated high grade forged stainless steel.

10″ Specimen Forceps	3 oz.	**53782**	**$7.50**
		12+	**$5.50**

4″ Precision Ground Forceps
Extra-long precision ground point.

4″ Precision Ground Forceps	1 oz.	**53799**	**$6.25**
		12+	**$5.75**

4-1/2″ Watchmaker Forceps
Extra fine, precision ground points.

4-1/2″ Watchmaker Forceps	1 oz.	**53780**	**$4.50**
		12+	**$3.50**

4-1/4″ Entomological Forceps
Broad, short point. Spring steel.

4-1/4″ Entomological Forceps	1 oz.	**53806**	**$6.30**
		12+	**$5.90**

4-1/2″ Entomological Forceps
Fine, long point. Spring steel.

4-1/2″ Entomological Forceps	1 oz.	**53809**	**$5.95**
		12+	**$4.95**

4-1/2″ Eye Forceps
Precision ground stainless steel points. Curved.

4-1/2″ Eye Forceps	1 oz.	**53779**	**$2.25**
		12+	**$1.75**

4″ Eye Forceps
Precision ground, stainless steel points rounded with deep serrations in jaws. Straight.

4″ Eye Forceps	1 oz.	**53778**	**$6.50**
		12+	**$5.50**

4-1/2″ Fine Point Forceps
Stainless steel. Straight.

4-1/2″ Fine Point Forceps	1 oz.	**53781**	**$2.25**
		12+	**$1.75**

4-1/2″ Medium Point Forceps
Stainless dissecting thumb forceps. Straight.

4-1/2″ Medium Point Forceps	1 oz.	**53852**	**$2.25**
		12+	**$1.75**

Classroom Dissection Kit
2924

This convenient kit includes the necessary dissection tools for 20 students working alone or 40 students working in pairs. **Contents:** 20 4.5″ scissors, 20 4.5″ forceps, 20 scalpel handles, 100 scalpel blades, 20 straight teasing needles, 20 angular teasing needles, 20 glass droppers, 20 6″ plastic rulers, 300 T-pins, and one storage tray.

Classroom Dissection Kit	6 lbs.	**53885**	**$139.95**

Beginner's Dissection Kit
2923

This economical kit includes: 6″ ruler, 4.5″ dissecting scissors, 4.5″ chrome-plated dissecting forceps, dropper with rubber bulb, straight teasing needle with plastic handle, angular teasing needle with plastic handle, and plastic pouch.

Beginner's Dissection Kit	2 oz.	**53869**	**$6.50**

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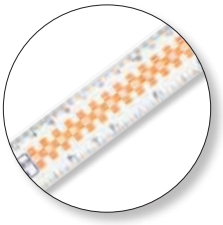
New! Accu-Scope® Binocular Zoom Stereo Microscope
4894

Utilizing an advanced Greenough optical system, this zoom stereo microscope provides high resolution, three-dimensional images with tremendous depth of field. The binocular viewing head is inclined 45° and rotates 360°. The eyepiece design offers comfort even during extended viewing periods and helps to maintain outstanding color reproduction. Ideal for industrial, OEM, and classroom applications, the stereo microscope features an articulating flex arm stand and dual focusing knobs with adjustable tension control for rapid, easy focusing. Includes dust cover, eyeguards, and instruction manual. Manufacturer's five-year limited warranty.

Eyepiece: WF10x focusable eyepieces, 22m field of view, built-in diopter adjustments and eyeguards. **Objectives:** Zoom magnification objective 0.67x - 4.5x. **Stand:** Cast alloy aluminum.

Binocular Zoom Stereo Microscope	10 lbs.	**61170**	**$1454.00**
Ball Bearing Boom Stand, Features a horizontal arm with a bonder port. Base Dimensions: 10″ x 10″. Vertical Post: 15.5″. Horizontal Arm: 23″.	40 lbs.	**61171**	**$489.00**
Universal Boom Stand, Features an adjustable horizontal arm.	40 lbs.	**61172**	**$300.00**
LED Ring Illuminator, LED quadrant ring light, 10-step variable. 60.5mm ID.	3 lbs.	**61173**	**$174.00**

Dissection Kit
8109



Designed for middle to high school and college level dissection. **Kit contains:** a chrome-plated scalpel, a Teasing needle with straight plastic handle, a chrome-plated mall probe, 4.5″ stainless steel Iris Scissors, a glass dropper, and a 6″ plastic ruler. Black plastic case.

Dissection Kit	5 oz.	**53871**	**$11.50**
		10+	**$10.50**
		20+	**$9.50**

Vari-Case Dissecting Kit
5298

Includes Safety-Lok scalpel, fine point forceps, dropper, fine point scissors, mall probe, straight needle, ruler, vari-case.

Vari-Case Dissecting Kit	10 oz.	**53771**	**$18.50**
		6+	**$16.75**
		12+	**$16.25**

Precision Dissection Kit
7272

Safe for students and teachers, this kit is ideal for use in the lab or in the field. Semi-hard, slotted, plastic case can be sanitized and has individual sections for each tool. Includes a chrome-plated dissecting mall probe, a 6″ ruler, one 4.5″ student dissecting forceps, one pair 4.5″ dissecting Iris scissors, one dissecting scalpel with screw-lock blade, a glass dropper, and a straight plastic handle dissecting needle, all in a see-thru plastic case.

Precision Dissection Kit	5 oz.	**53874**	**$11.50**

Dissecting Pan
5299

Durable aluminum with black wax in bottom. 11-1/2″ x 7-1/2″.

Dissecting Pan 1 lb.		**53854**	**$16.75**
		12+	**$15.25**

Dissecting Pan with Disecto Flex-Pad
2263

This tough aluminum dissecting pan features a Disecto Flex-Pad in the bottom instead of wax. The long-lasting, removable pad offers a smooth, clean, odorless surface. Pan measures 11-1/2″ x 7-1/2″.

Aluminum Dissecting Pan with Disecto Flex-Pad 1 lb.		**53853**	**$16.75**
		10+	**$15.75**

T-Pins
2249

2″ Nickel-plated brass dissecting T-pins with smooth, sharp points. Box of 400.

T-Pins 10 oz.		**53851**	**$14.95**

Fendall Flash Flood Eyewash Station
page 594

Lab Aprons
page 475

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Swift® Compound Microscope
5265

Ruggedly built for years of student-proof performance.

Features include 4x, 10x, and 40xRD objectives; a W10x widefield eyepiece with built-in pointer; inclined eye tube of constant height; a 360° rotatable monocular body; large 115 mm x 120 mm stage; built-in condenser; locked-on stage clips; disc diaphragm with five apertures; separate coarse and fine focus controls; tension control clutch system; and a 120V, 20W built-in illuminator. Dust cover included.

Model M2251B
8 lbs. **61026 $259.00**
2+ **$238.00**

Manufacturer's Warranty Limited Lifetime

Swift® SM100 Series Stereoscopes
2781

Features 2x and 4x objectives with locked-on 10x eyepieces. Variable turret (6 LED) and top illumination. Two illumination switches for easy adjustment among five light settings. Paired wide-field eyepieces are 45° inclined, and the viewing head rotates 360°. "One-touch" spring-loaded stage clips, right eyepiece diopter focusing adjustment, interpupillary adjustment from 55mm to 75mm, and a "slip-clutch" system to protect against over-focusing. Dust cover included.

Model SM102 Corded Stereoscope
12 lbs. **60072 $389.00**

Swift Model SM102-C Cordless Stereoscope

Cordless model features 3 AA rechargeable nickel metal hydride batteries (NiMH) that can be recharged up to 500 times for a total of 20,000 to 25,000 hours of stereoscope use.

Model SM102-C Cordless Stereoscope
12 lbs. **60073 $399.00**

Manufacturer's Warranty Limited Lifetime

Swift® Tri-Power Stereo Dissecting Microscope
4545

This microscope's exclusive design features a rotating turret-type objective housing which contains 1x, 2x, and 4x objectives. The 360° rotating body allows easy sharing between users. The microscope also features a post-type arm which allows for extra working distance, left-eye diopter for increased focus acuity, eye shields to exclude ambient light, three light settings, slip-clutch system to prevent users from damaging the focus mechanism, and locked-on eyepieces and stage clips to prevent removal. The large 5˝ x 8˝ metal base assures stability, and the all-metal internal parts and gears withstand repeated use. Built-in LED illumination. Manufacturer's limited lifetime warranty. Dust cover included.

Eyepiece: 10x. **Objectives:** 1x, 2x, and 4x. **Magnification:** 10x, 20x, and 40x. **Field of view:** 10mm. **Working distance:** 1-1/2˝ (40mm).

Model M27LED-124
8 lbs. **61011 $355.00**

Manufacturer's Warranty Limited Lifetime

Swift® M3-B Field Microscope
7212

Cordless

Use the M3-B as a microscope or a macroscope. Ideal for field activities ranging from gross dissection to cell identification. Multiple stage positions allow for micro and macro viewing. Includes stage plate for viewing micro specimens and black/white contrast plate and clear collection container for viewing macro specimens. Top and bottom LED illumination provides energy efficient, white light with virtually no heat. Extra bright LED lasts up to 50,000 hours. Allows up to 50 hours of use on a single 8-hour charge. Rechargeable batteries and recharger are included. The sturdy, detachable tripod legs fold for easy storage. Ergonomic carry handle. All-metal internal parts. Backed by the Swift Optical Limited Lifetime Warranty.

Total Magnification: 20x, 40x, 100x, 400x. **Eyepieces:** Widefield 10x. **Field of View:** 18mm. **Focusing:** Coarse and fine.

M3-B Field Microscope
10 lbs. **61015 $548.00**

Manufacturer's Warranty Limited Lifetime

New! Swift® M10T Advanced Digital Compound Microscope
7211

Manufacturer's Warranty 1 Year

This all-in-one microscope system combines a 7˝ Android-based tablet with a Swift M10 compound microscope for unlimited possibilities! In addition to viewing live images on the tablet's screen, the pre-loaded MotiConnect App allows for image capture, annotation, measurement, and sharing. Images can also be captured and stored on a micro SD card (card not included) using the tablet's card slot. The tablet can connect via Wi-Fi to another computer for utilization of the included Motic Images software. The tablet features a 1280 x 800 resolution touchscreen display, a 5.0 megapixel camera, Bluetooth® capability, and HDMI output. The microscope features energy-efficient variable 3W LED illumination, semi-plan objectives, W10XD 20 mm eyepieces, a Siedentopft binocular head, a built-in low-drive mechanical stage, and a 1.25 Abbe rack and pinion condenser. Includes Motic Images software, calibration slide, and dust cover. Manufacturer's limited lifetime warranty on the microscope and one-year limited warranty on the tablet.

Swift M10T Advanced Digital Compound Microscope 53 lbs. **61004 $1899.00**

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Walter Products Full Feature Compound Microscope with Mechanical Stage
4024

The built-in mechanical stage of this microscope allows smooth X-Y travel in 0.1mm graduation plus it has positive stops at both ends of travel to prevent damage to delicate specimens or optics. Other features include a spring-loaded stage clamp for exact positioning of the specimen, rack and pinion, removable 1.25 ABBE condenser and iris diaphragm for resolution and contrast control, 10x wide-field eyepiece locked on with pointer, monocular with 45° inclined head (360° rotation), and coaxial coarse and fine focusing. Objectives are DIN achromatic, parcentered, parfocal color-coded 4x, 10x, 40x (retractable), 100x (retractable) oil. Dust cover included.

Microscope with 6V 5W Fluorescent Illumination 8 lbs.	**61046**	**$279.00**
Replacement Fluorescent Bottom Lamp 1 oz.	**60061**	**$4.40**

Walter Products Full Feature Compound Microscope
6895

Incorporates high resolution flat field objectives with wide-angle viewing for precision at an affordable price.

Other features include a wide-field locked-on 10x eyepiece mounted at 45° inclined with a pointer, a 360° rotatable head, triple nosepiece, locked-on spring-loaded stage clips, and coarse and fine coaxial focusing with built-in slip clutch. Objectives are DIN parfocal, parcentered, achromatic, color-coded 4x, 10x, 40xR (retractable). Dust cover included.

Compound Microscope w/6V 5W Fluorescent Illumination 7 lbs.	**60057**	**$172.75**
Replacement Fluorescent Bottom Lamp 1 oz.	**60061**	**$4.40**

New! Walter Products Professional LED Stereo Microscope
6896

Engineered to deliver precise magnification and crisp, sharp images, this microscope features 45° inclined eyetubes with interpupillary adjustment from 55mm to 75mm, a 10x wide field locked-in eyepiece, and 1x and 3x objectives. The microscope utilizes top and bottom LED illumination and features heavy-duty rack and pinion focusing with slip clutch and tension adjustment. Other features include diopter control in the left viewing tube, coated optics, and locked-on stage clips. Dust cover, frosted stage plate, and reversible black/white stage plate included.

Professional LED Stereo Microscope 8 lbs.	**61009**	**$315.00**

New! Microscope Slide Set
4981

Offering a variety of top-quality specimens, this set includes 25 prepared glass microscope slides. The supplied wooden case keeps the slides organized and protected.

Microscope Slide Set 9 oz.	**60009**	**$57.50**

Slide Storage Box
7270

Sturdy two-piece molded plastic slide box. The bottom section has slide numbers engraved for easy reference, and the inside of the lid carries a numbered slide index.

100 Slide Box 1 lb.	**60006**	**$6.40**

Microscope Slides and Cover Slips
2080

These quality, corrosion-resistant glass slides are available in plain, frosted, and concave styles. Square cover slips also available. Cover slips are made of borosilicate glass.

Plain Slides, 1″x 3″, 1mm thick, Box of 72	13 oz.	**60000** 10+	**$4.65** **$4.30**
Single Frosted Slides, 1″x 3″, 1mm thick, Box of 72	14 oz.	**60001** 10+	**$5.20** **$4.55**
Single Concave Slides, 1″x 3″, 1.5mm thick, Pack of 12	3 oz.	**60002** 10+	**$4.80** **$4.30**
Square Cover Slips, 18mm x 18mm, 0.13 to 0.17mm thick, approx. 140 cover slips per box	2 oz.	**60003** 10+	**$1.90** **$1.70**
Square Cover Slips, 22mm x 22mm, 0.13 to 0.17mm thick, approx. 140 cover slips per box	2 oz.	**60004** 10+	**$2.15** **$1.85**

Micro Phone Lens page 459

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Field Trip Microscope
8126

Ideal for field trip use, this rugged, all metal microscope is excellent for studying insects, pond water, rocks and plants! Other features include a 10xWF eyepiece (20x magnification), a unique optical system that needs no extra light, and it comes complete with a wood carrying case and user manual. **Dimensions:** 5″ x 4″ x 7″. **Weight:** 3 lbs.

Field Trip Microscope	3 lbs.	**61049**	**$60.50**

Nikon® 20x Mini Field Microscope
7067

Take your laboratory outdoors!

This portable 20x microscope allows stereoscopic, 3-D viewing in both the classroom and the field. Fully adjustable, the microscope has a pivoting head for easy observation of large subjects. This durable yet lightweight microscope is dustproof and water resistant. Tripod adaptable.

Nikon 20x Mini Fieldmicroscope	1 lb.	**61057**	**$560.00**

Ken-A-Vision® Digital CoreScope
7471

An affordable way to add digital microscopy to your classroom! Powered by USB 2.0 to capture clear, sharp images directly to your computer, plus it can be used as a standard microscope or a digital microscope. Features include a 10x Widefield Eyepiece, a built-in camera, a 3.75″Dia. multi-directional round floating stage, a light rheostat, and it comes with Applied Vision™ Software.

Prism Head: Monocular 45° Incline. **Eyepiece:** 10x Widefield with Diopter. **Objectives:** 4x, 10x, 40xR DIN par-focal. **Focusing:** Separate coarse and fine focusing knobs. **Frame Rate:** 15fps. **Weight:** 4.9 lbs. **Size:** 11″ x 6″ x 4″. **Manufacturer's Warranty:** Ten Years on Scope, One Year on Camera.

Model T-1754 Digital CoreScope	5 lbs.	**61090**	**$489.00**

Ken-A-Vision® PupilCAM® with Applied Vision Software
2253

Transforms your microscope into a digital scope!

Portable and easy to use, the PupilCAM is ideal for the classroom. The PupilCAM slides directly onto your microscope eyepiece and transfers full screen, high resolution digital images from the microscope directly to your computer screen. The Applied Vision software (included) allows for FTP uploading and video streaming. Using the software, you can preview images, zoom in on images, capture still images, view multiple galleries, record movies, and do digital panning and tilting. The PupilCAM fits most microscopes, and the adapter's rubber grip securely and precisely aligns the camera over the microscope's eyepiece. A pre-attached USB 2.0 cable allows for direct interface with your computer. Macintosh and Windows compatible.

System requirements: 233 Mhz Pentium, Microsoft Windows 98+, Internet Explorer 4.0, 8 MB Video Card (16 bit color), 60 MB of free hard disk space. **VGA resolution:** 1240 x 960.

Ken-A-Vision PupilCAM with Applied Vision Software	13 oz.	**61080**	**$340.00**

Manufacturer's Warranty 1 Year

"The Professor" Model ESH200 Binocular Stereo Microscope
7473

Designed specifically for students! With a compact size, battery power and glass optics, The Professor is the ideal microscope for working in the classroom or in the field. Features include: top light for viewing opaque specimens; high impact plastic construction; 10x glass eyepiece; and 300 hours of operation utilizing AA batteries (included). Dust cover included. One year warranty from the manufacturer.

Head: 45° angle single fixed, adjustable binocular eyepiece. **Objective lens:** 2x. **Power Source:** 2 "AA" Batteries. **Weight:** 1.25 lbs. **Dimensions:** 5.5″ x 4.5″ x 9″.

Model ESH200 Binocular Stereo Microscope	2 lbs.	**61088**	**$89.00**

Magiscope® Microscope
5271

One base, one optical tube – that's it!

Bringing slides into view is as simple as moving the brass optical tube up and down or twisting the optical tube to use the new fine tune adjustment. Lab-grade optics assure perfect clarity for close inspections of objects up to 2″ thick. A permanently attached Lumarod® illuminator utilizes fiber optics to produce amazingly bright and consistent lighting, free of mirrors or bulbs. Intended for 4th – 10th grade students, this microscope is designed to withstand years of not-so-gentle handling – from its thick, solid aluminum stage to its heavy-duty, cast aluminum frame. Unconditional manufacturer's five-year warranty even covers accidental breakage.

Eyepiece: 5x huygenian. **Objectives (achromatic):** 4x/0.1 N.A., standard; 10x/0.25 N.A., optional (61001; recommended for higher grades). **Magnification:** 20x using 4x objective; 50x using 10x objective. **Illuminator:** Built-in Lumarod® (fiber optic). For use in the field, the optical tube can be removed from the base.

Magiscope Microscope	2 lbs.	**61000**	**$155.95**
		4+	**$149.95**
Optional 10x/0.25 N.A. Achromatic Objective	3 oz.	**61001**	**$27.50**
Field Case for Magiscope	7 oz.	**61041**	**$30.00**

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Mini Automatic Digital Microscope
2973

This small, versatile and simple to use Mini Automatic Digital Microscope has simple push button controls for zooming in/out, auto-focusing, adjusting brightness, and taking pictures. Features include a 5 mp color camera; auto focus; auto white balance/exposure/gain; built-in, adjustable bright white LED illumination; 12x - 200x continuous zoom; and built-in microphone to record analysis notation.

Magnification: 12x – 200x. Frame Rates:VGA, up to 40 fps; 720P, up to 30 fps; 5.0 MP, up to 15 fps. **Ilumination:** built-in LEDs - adjustable to 16%, 33%, 50%, 66%, 83% or 100%. **Interface:** High-speed USB 2.0. **Dimensions:** 2″x 1.8″. **Weight:** 3 oz. **PC Compatibility:** Windows XP, 2000, Vista, 7, Windows Server 2000. **Recommended:** 1.2 GHx or higher; 512MB RAM; 20GB or higher hard drive; CD-ROM for installation.

Mini Automatic Digital Microscope — 7 oz. **61085** **$399.00**

Accu-Scope® 3078-HD Zoom Stereo Microscope
2972

View crisp, high resolution, 3-dimensional images with this stereo microscope!! With the push of a button, the built-in 5 mp CMOS camera system captures high defintion images onto a removable SD card. Images can then be transferred to a computer via the USB port for further review and analysis. Includes a 2 GB SD memory card plus USB, HDMI and video cables.

Eyepiece: WF10x/20mm field of view; 50-75mm interpupillary distance. **Viewing Angle:** 60°. **Magnification:** 8x - 35x. **Focusing System:** Large dual focusing knobs with coarse adjustment. **Focusing Range:** 90mm. **Camera:** 5 mp CMOS buit-in camera system. **Digital Output:** USB 2.0 compatible. **HDMI Port:** 720p HD. **Recording:** push button control for image capture. **Illumination:** Maintenance-free, 5 watt LED transmitted and incident illuminators with intensity control; 100V-240V; bulb life approx. 25,000 hours. **Dimensions:** 11.25″L x 14″H x 7.325″D.

Zoom Stereo Microscope — 14 lbs. **61072** **$1879.00**

EXTECH INSTRUMENTS

Extech® MC200 Digital Camera/Microscope
7480

This 200x mini microscope allows you to capture and download 2MP images plus it has a 2.8″TFT Color LCD Screen to view them on. Features include: 1x to 200x magnification range with an optical Zoom of 1x to 10x (continuous) and 40x and a digital zoom of 5x; LED illumination; built-in scale for length and height measurement; 5 Image Effect modes; and a dual window view for simultaneously viewing the magnified image next to the original image. Record videos on the camera and view on TV or PC with included video and USB cables. Captured video and JPEG images can be transferred to your PC via the included 2G microSD memory card. Real-time imaging on your PC screen via USB interface and included software. Battery charges via USB cable. **Dimensions:** 5.1″x 2.6″x 1.1″(129 x 67 x 28mm). **Weight:** 5.6 oz. (160g) including battery. Comes complete with NP120 3.7V rechargeable Li-ion battery, RCA Video cable, 2G microSD memory card, Windows® compatible PC software with mini USB cable, cleaning cloth, wrist strap, AC Adaptor, and pouch case.

Extech Digital Camera/ Microscope — 1 lb. **61053** **$519.00**

Carson® zPix™ MM-740 Digital Microscope
8594

Features a 1.3 megapixel digital camera.

This economical digital microscope displays magnified images directly on your computer screen. Zoom magnification allows you to see close-up details, and a built-in digital camera allows you to capture images as well as video. To use, simply install the included software, plug the zPix into your computer's USB port, and begin viewing. Compatible with Mac OSX 10.4 or later, Windows 98 SE, Windows 2000, Windows ME, Windows XP, Windows Vista, Windows 7, and Windows 8. A USB 2.0 port is required. Included with the zPix are a specimen base, 3 blank slides, 1 prepared slide, forceps, eyedropper, USB cable, and CD ROM software.

Weight: 8.8 oz. **Dimensions:** 4.125″x 1.75″x 1.6875″.

MM-740 zPix — 1 lb. **61108** **$89.95**

ken-a-vision KNOWLEDGE THROUGH VISION

Kena™ by Ken-A-Vision® Digital Microscope
7472

Detachable head for handheld use!

This digital microscope with a unique detachable head is ideal for teachers and students, in the classroom or in the field. It has a USB connection, so you can magnify, capture, or modify images or video. The removable camera/magnification head has an ergonomic shape to fit snugly in your hand or onto the sleek, sturdy metal base. Kena has 20X, 40X and 100X magnifications, USB powered LED lighting on top, and battery powered LED lighting on bottom for viewing of specimens or slides. The unique stage pad eliminates the need for stage clips. Kena Viewer Software is included.

Objectives: 2X, 4X, 10X. **LED Illumination:** Ken-A-Vision Cool Lighting. **Resolution:** VGA 640 x 480. **Power:** 4 AA Alkaline Batteries.

Model T-1050 Digital Microscope — 4 lbs. **61092** **$289.00**

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Carson® MicroMax LED Microscope
8595

60-100x Magnification

A powerful 60-100x magnification microscope with an extremely lightweight and portable design. Features a built-in LED light that provides a bright, clear image and a rubberized eyepiece for comfortable viewing. Fits easily in your pocket to bring with you anywhere. Battery included. **Dimensions:** 3.25″ x 1.25″ x 0.75″.

Carson MicroMax LED	2 oz.	**61236**	**$16.75**

Carson® MagniScope Monocular/Microscope
5238

8 x 20mm monocular, 3x LumiLoupe™ and 30x portable microscope

One of the most unusual and useful magnifying instruments ever offered, this magnifier's two components combine to create three different optical devices. The heart of the MagniScope is a palm-sized, 8 x 20 mm ultra-miniature, precision monocular with a 288-foot field of view and adjustable focus from six feet to infinity. Its companion piece is a 3x LumiLoupe™ stand magnifier with adjustable focus and a transparent acrylic base that allows ambient light to fully illuminate the subject being viewed. Thread them together and they become a 30x portable microscope. Measures 7″ x 1-3/4″ x 1-3/4″.

Carson MagniScope Monocular/Microscope	4 oz.	**61111**	**$61.95**

Illuminated Pocket Microscopes
2243

30x or 100x magnification

Ideal for examining details of plants, insects, and more! These compact, handheld microscopes feature a 3V built-in light for illumination and an 8x slide-out magnifier for checking the microscope's target object. Two models available, 30x magnification or 100x magnification. The 100x magnification model includes a convenient stand for easy upright viewing as well as six specimen slides. **Power:** 2 AA batteries (not included).

30x Illuminated Pocket Microscope	4 oz.	**61231**	**$13.50**
		12+	**$12.25**
100x Illuminated Pocket Microscope	6 oz.	**61232**	**$16.75**
		12+	**$14.25**
AA cell Alkaline Batteries, pack of 4	7 oz.	**02352**	**$3.25**

Two-Way Microscope
2701

Use this versatile 2x microscope to obtain magnified top and bottom views of three-dimensional objects. In addition, the top objective lens can be used to view larger items which will not fit on the stage. **Dimensions:** 4″L x 2-1/2″W x 5-1/2″H.

Two-Way Microscope	11 oz.	**61084**	**$16.50**
		10+	**$13.50**

SPI Pocket Portable Microscope
5242

Available with 25x or 50x magnification, these high-quality magnifiers are great for microscopic inspection in the field. Small size and convenient pocket clip allow easy carrying. Snap close pouch included.

25x	2 oz.	**61027**	**$134.50**
50x	2 oz.	**61028**	**$181.75**

DiscoveryScope® Student Kit
6393

Observe a vast array of specimens with this unique magnifier!

This hand-held 10x single lens magnifier and support equipment create an effective system for observing a variety of materials. Specimens can be focused, scanned from side to side, moved up and down, and rotated using just one hand. Swivel clamp holds flowers, leaves, and insects for easy viewing. Unique plexiglass viewing chambers can be used to hold water, soil, plant material, even small insects such as flies and aphids. Chambers are self-contained environments that can be observed over long periods of time. Allows you to study growth and development, movement, or feeding habits. Kit includes scope, swivel clamp, multi-use holder, water dropper, and two clear view chambers.

DiscoveryScope Student Kit	4 oz.	**61098**	**$34.95**
		10+	**$31.50**

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OptiVisor® Glass Binocular Magnifier

5247

2x, 2.5x or 3.5x Magnification

This binocular magnifier is worn comfortably on the head and can be raised out of the way for normal vision. Glass lenses are ground and polished to precision optical standards. ABS high impact visor is chemical-, grease-, and flame-resistant. A complete OptiVisor consists of adjustable headband, visor, adjustable pivot assembly, headband dial adjustment, and one lens plate. Auxiliary lens available for added magnification.

2x Lens. Focal Length: 10″	9 oz.	**61470**	**$45.50**
2.5x Lens. Focal Length: 8″	9 oz.	**61467**	**$45.50**
3.5x Lens. Focal Length: 4″	10 oz.	**61469**	**$47.25**
Auxiliary Lens, Adds 2.5x to all lenses	2 oz.	**61476**	**$12.25**

Bausch & Lomb® Round Reader

5259

2x, 6x Magnification

Good balance and natural hand fit. Lenses are crystal acrylic which makes the objects appear brighter. Overall magnification is 2x. Inset magnification is 6x. Molded plastic handle.

4″ Diameter Lens, 2x Overall Magnification	9 oz.	**61370**	**$20.25**

Rectangular Reader

5260

2x, 5x Magnification

For any purpose where a reading glass must be used over extended periods. Lightweight. Overall magnification is 2x. Inset magnification is 5x. Natural position molded plastic handle and rim. **Focus Length:** 9″. **Lens Dimensions:** 3-7/8″ x 2″.

Rectangular Reader	8 oz.	**61082**	**$9.50**
		6+	**$7.75**

Luxo® Fluorescent Illuminated Magnifier

5988

1.25x Magnification

Heavy-duty, adjustable arm is flexible over a full 360°; extends to 45″. Features tension control knob at arm joint to adjust movement to desired touch, heavy duty cast aluminum shade, and fingertip control on/off switch. Perfect balance in any position due to individually calibrated steel springs. Baked enamel gray color and non-friction precision joints. Factory installed 1.25x lens is 5″ diameter, uses a 22W circline fluorescent tube. UL® listed. Friction clamp for mounting on horizontal surfaces.

Luxo Fluorescent Illuminated Magnifier	12 lbs.	**61463**	**$309.00**

100 Watt Halogen Magnifier Lamp

5248

1.75x Magnification

Features a 5″ Dia., precision ground, 3-diopter (13″ focal length) magnifying lens; a three-position light output level switch; 45″ articulating arm system; 700W outlet in base of arm system; and a scratch-resistant Valox shade. Angle clamp attaches to a desk or table. Includes bulb, 9′ three-conductor cord, and UVB filter. UL® listed.

100 Watt Halogen 1.75x Magnification Magnifier Lamp	8 lbs.	**61459**	**$173.25**

Alvin® Magnifier Lamp

8630

1.75x magnification

Low heat magnifying lamp with high quality, extra-large 5″ diameter lens and a fully adjustable internal spring arm with a 45″ reach. Convenient stay cool handle on head for positioning. 3-Diopter glass lens provides 1.75x magnification. Includes a heavy-duty desktop mounting clamp that fits up to 2-1/2″ thick surfaces. All metal construction. UL Listed.

Alvin Magnifier Lamp	9 lbs.	**61468**	**$102.95**

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Bausch & Lomb

Bausch & Lomb® Coddington Pocket Magnifiers

5250

10x, 14x, or 20x Magnification

These magnifiers achieve their correction through the use of a single thick lens with a central groove diaphragm. Strong chrome-plated metal case protects the lens. The image quality of a Coddington is second only to a Hastings Triplet among magnifiers.

10x, 1″Focus, 7/8″Dia. Lens	2 oz.	**61280**	**$26.75**
14x, 3/4″Focus, 5/8″Dia. Lens	2 oz.	**61290**	**$29.25**
20x, 1/2″Focus, 5/8″Dia. Lens	1 oz.	**61300**	**$31.95**

Bausch & Lomb

Bausch & Lomb® Hastings Triplet Pocket Magnifiers

5249

7x, 10x, 14x, or 20x Magnification

The Hastings lens consists of three separate lenses made of different types of glass, each ground and polished to instrument quality standards and cemented together. Strong chrome-plated metal case protects lens. The next step up in image quality beyond this magnifier is a microscope.

7x, 1-1/2″Focus, 3/4″Dia. Lens	2 oz.	**61230**	**$40.50**
10x, 1″Focus, 5/8″Dia. Lens	2 oz.	**61240**	**$42.50**
14x, 3/4″Focus, 1/2″Dia. Lens	1 oz.	**61250**	**$49.75**
20x, 1/2″Focus, 5/16″Dia. Lens	1 oz.	**61260**	**$49.75**
Forestry Suppliers Lanyard	1 oz.	**30000**	**$2.95**

Eschenbach Precision Folding Magnifier

6783

Manufacturer's Warranty Lifetime

4x, 6x, and 10x Magnification

Three magnifications (4x, 6x, and 10x) in one quality pocket magnifier! Precision glass 1-1/8″ diameter lenses are scratch resistant. Magnifier housing constructed of durable matchromium-plated brass. Measures 2-1/4″W x 1-3/8″L x 13/16″H.

4x, 6x, and 10x Magnification, 1-1/8″Dia. Lenses	3 oz.	**61061**	**$91.25**

10x Pocket Loupe

5264

10x Magnification

Compact pocket loupe is great for quick, close-up magnifying! 3/4″ Diameter lens is protected by a strong, metal case. 10x.

10x Pocket Loupe, 3/4″Dia. Lens	3 oz.	**61136**	**$7.25**
		12+	**$6.10**

Coddington Type Pocket Magnifiers

3194

10x Magnification

Double lens mounted for distortion-free viewing. Chrome-plated case.

10x, 7/16″Dia. Lens	1 oz.	**61494**	**$11.75**
		12+	**$10.75**
		24+	**$10.25**
10x, 5/8″Dia. Lens	2 oz.	**61502**	**$18.50**
		12+	**$16.25**
		24+	**$15.50**

Bausch & Lomb

Bausch & Lomb® Folding Pocket Magnifier

5253

5-7-9-12-14-16-21x Magnification

Three-lens model provides seven magnification steps. Cases and lens mounts of ebony plastic. Acrylic lenses.

Triple Lens, 5-7-9-12-14-16-21x, 0.8″Dia. Lens	2 oz.	**61110**	**$27.95**

Folding Pocket Magnifiers, Glass Lenses

5254

5x-10x-15x Magnification

Black plastic cases and lens frames, glass lenses.

Triple 1-1/8″Dia. Lens, 5x-10x-15x	2 oz.	**61493**	**$18.95**
		10+	**$16.75**

Economical Folding Pocket Magnifiers

3196

5x-10x or 5x-10x-15x Magnification

These sturdy magnifiers feature 7/8″ diameter lenses which fold into a black, plastic case. Great for educational uses!

Double Lens, 5x, 10x – 7/8″Dia. Lenses	1 oz.	**61121**	**$3.90**
		12+	**$3.20**
Triple Lens, 5x, 10x, 15x – 7/8″Dia. Lenses	1 oz.	**61122**	**$4.70**
		12+	**$3.95**

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Giant Folding Magnifier
8121

6x Magnification

Perfect for a variety of jobs, including dissection of small, delicate specimens such as owl pellets. This hands-free 6x magnification magnifier provides an extra large field of view and folds for easy storage. **Dimensions:** 7″ x 5.75″ x 2″.

Giant Folding Magnifier	1 lb.	**61047**	**$13.50**
		10+	**$11.75**

New! Micro Phone Lens
4985

Simply place this 15x magnification lens directly over your cell phone's camera lens to obtain magnified views! The lens securely adheres to the camera lens without causing damage, peels off easily when you're finished using it, and can be reapplied over and over. Carrying case provides a handy platform on which to rest your phone while taking photos. Scratch-proof and washable, the lens is recommended for use with 5 megapixel or higher cameras.

Micro Phone Lens	1 oz.	**61010**	**$14.95**
		6+	**$13.75**

Bausch & Lomb

Bausch & Lomb® Hastings Measuring Magnifier
8016

This precision magnifier features a Hastings glass lens that is adjustable for individual focusing and produces a flat, distortion-free image. The magnifier's transparent body allows illumination to fall directly on the magnified area. Optional inch and metric scale reticles (sold separately) permit easy measurements. Protective case included.

10x Magnifier	3 oz.	**61043**	**$59.25**
Inch Scale Reticle – Measures 3/4″ in 0.005″ intervals (E)	1 oz.	**61042**	**$33.95**
Metric Scale Reticle – Measures 20 mm in 0.1 mm intervals (M)	1 oz.	**61039**	**$33.95**

Bausch & Lomb

Bausch & Lomb® Illuminated Pocket Magnifier
5257

10x Magnification

This fountain-pen size 10x Coddington magnifier has a built-in bulb that puts brilliant illumination directly on the object being viewed. On-off switch. Takes two penlight AA 1.5V batteries (not included).

Magnifier	2 oz.	**61390**	**$29.50**
AA cell Alkaline Batteries, pack of 4	7 oz.	**02352**	**$3.25**

Lighted Magnigrip™ Tweezers
8592

Ideal for the little jobs! Features a compact 4x power magnifier combined with a built-in fine point tweezer and bright LED light. Protective tweezer guard included. **Dimensions:** 4.5″ x 1.375″ x 1″. **Batteries:** 3 GP395 button cell (included).

Lighted Magnigrip Tweezers	2 oz.	**53825**	**$11.25**

Handheld Plastic Magnifier
2245

Dual lens magnifier has 3x and 6x magnifications. 50mm diameter. Hole in handle for attaching a lanyard.

Handheld Plastic Magnifier	1 oz.	**61233**	**$1.90**
		10+	**$1.70**
		20+	**$1.50**
Forestry Suppliers Lanyard	1 oz.	**30000**	**$2.95**

Bausch & Lomb

Bausch & Lomb® Packette Magnifier
5258

5x Magnification

1-3/8″ Diameter lens slides out for use, snaps back inside case for carrying. About the size of a book of matches.

Bausch and Lomb Packette Magnifier 5x	2 oz.	**61124**	**$8.95**

LaMotte

LaMotte® MacroLens™
4335

Use this 5x magnifier to get an up-close view! Fits over an entire petri dish.

LaMotte MacroLens	9 oz.	**61021**	**$15.50**
		10+	**$14.25**

(E) English (M) Metric

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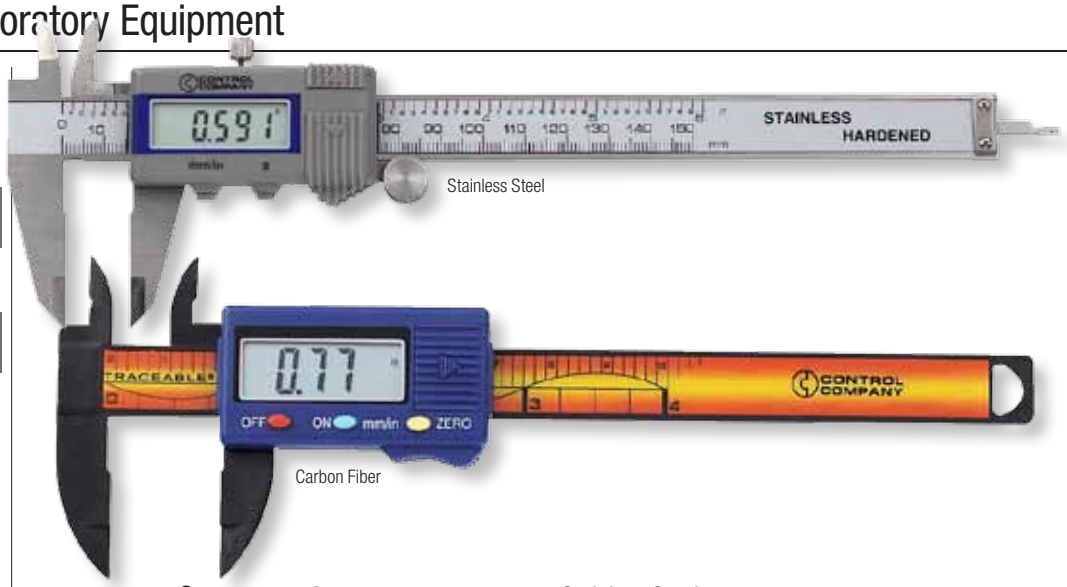
Haglöf Mantax Blue Calipers
page 75

Chlorophyll Content Meter
page 286



Stainless Steel

Carbon Fiber

Traceable® Digital Calipers

8018

English/Metric. Traceable to NIST Standards

Make length/diameter measurements three ways: outside, inside, and depth. Results can be viewed in either inches or millimeters at the touch of a button on the 1/3″H digital display. Able to zero at any point, the zero button allows you to instantly set the unit to zero when jaws are at any position. This handy feature permits you to set a Floating Zero™ or reference point to read "greater than or less than results with a minus sign displayed" without calculations. To assure accuracy, each caliper comes with an individually serial-numbered Traceable® Certificate indicating traceability to standards provided by NIST.

Stainless Steel

Measuring Range: 6″/150mm or 8″/200mm. **Resolution:** 0.0005″/0.01mm. **Accuracy:** ±0.001″ or ±0.03mm. **Depth Bar:** Yes. **Thumb Roller/Lock Screw:** Yes. **Non-metallic/non-conductive:** No. **Dimensions:** 6″ Model, 9″ x 3″; 8″ Model, 11″ x 3″. **Weight:** 6″ Model, 5 oz.; 8″ Model, 6 oz.

6″/150mm Caliper	Ⓒ	11 oz.	**59582**	**$90.50**
8″/200mm Caliper	Ⓒ	14 oz.	**59583**	**$123.95**

Carbon Fiber

Measuring Range: 4″/100mm or 6″/150mm. **Resolution:** 0.01″/0.1mm. **Accuracy:** ±0.01″ or ±0.2mm. **Depth Bar:** No. **Thumb Roller/Lock Screw:** No. **Non-metallic/Non-conductive:** Yes. **Dimensions:** 6″ Model, 7″ x 2.5″; 8″ Model, 9.5″ x 3″. **Weight:** 4″ Model, 1 oz.; 6″ Model, 2 oz.

4″/100mm Caliper	Ⓒ	2 oz.	**59580**	**$28.75**
6″/150mm Caliper	Ⓒ	3 oz.	**59581**	**$31.95**

59619

59622

Digimatic Input Tools

4176

A simple 1-channel interface unit which allows measurement data to be directly input into a commercial spread sheet such as Microsoft Excel, Lotus 1-2-3, etc. Connects to any Digimatic tool with SPC output, and no special software is required. Compatible with Windows® XP, NT, and 2000.

Digimatic Caliper Keyboard Input Tool for SPC Output Digimatic Tools 7 oz.	**59619**	**$138.00**
USB Input Tool 6 oz.	**59622**	**$197.00**
Digimatic Caliper Data Cable 1 lb.	**59609**	**$57.50**

Note: Keyboard Input Tool (59619) cannot be used with computers with a USB keyboard. Commercial keyboard adapter required for IBM Think Pad computers. Conversion adapter required for AT-style keyboards. USB Input tool (59622) requires no adapter.

Digimatic Calipers

English/Metric

Fast, accurate, and well designed. These innovative digital LCD caliper allow you to quickly determine error-free measurements. Features include stainless steel beam graduated in inches/mm, thumb roller, locking clamp, and large LCD digits. State-of-the-art functions allow you to set zero at any point on the spindle, instantly convert measurements from inches to millimeters, and with its "absolute technology" retain readings after turning the unit off.

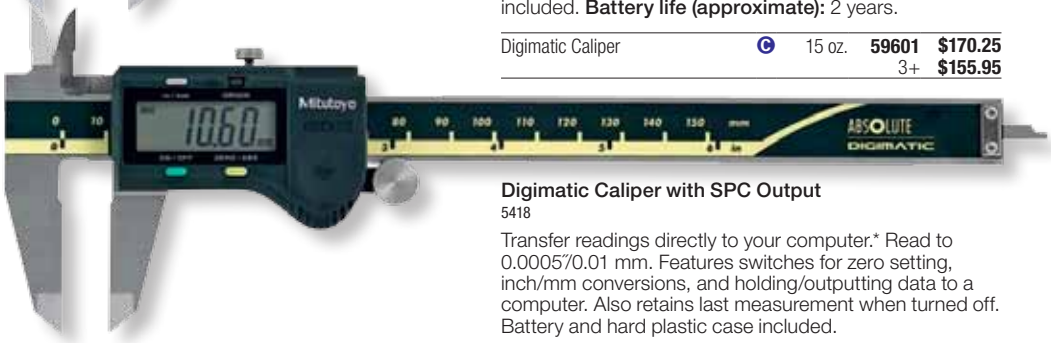
Measuring range: 0 to 6″/0 to 150 mm. **Accuracy:** ±0.001″/0.02 mm. **Battery life (approx.):** 2 years.

Digimatic Caliper

5422

It's contoured to fit in your hand and has control buttons on the slider face to avoid accidental contact while you're making measurements. Battery and hard plastic case included. **Battery life (approximate):** 2 years.

Digimatic Caliper	Ⓒ	15 oz.	**59601**	**$170.25**
			3+	**$155.95**



Digimatic Caliper with SPC Output

5418

Transfer readings directly to your computer.* Read to 0.0005″/0.01 mm. Features switches for zero setting, inch/mm conversions, and holding/outputting data to a computer. Also retains last measurement when turned off. Battery and hard plastic case included.

Digimatic Caliper with SPC Output	Ⓒ	15 oz.	**59615**	**$211.75**
			3+	**$182.95**

***Note:** Input Tool (59619 or 59622) and cable (59609) required.

Ⓒ Combination English and Metric

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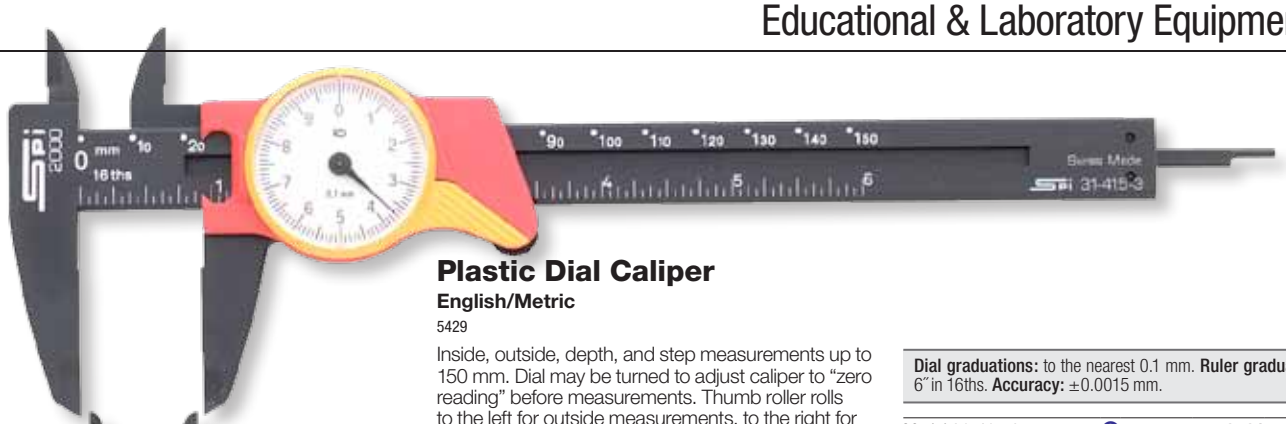


Plastic Dial Caliper

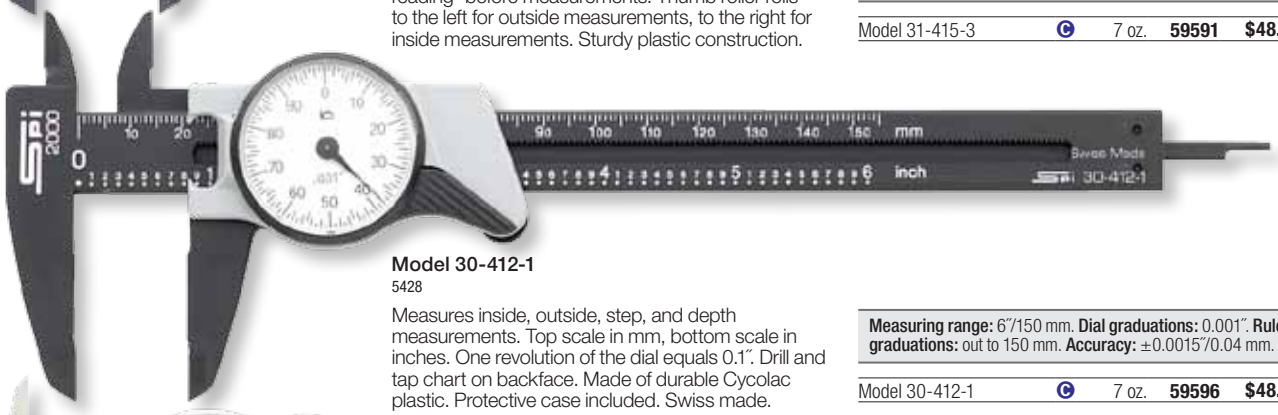
English/Metric

5429

Inside, outside, depth, and step measurements up to 150 mm. Dial may be turned to adjust caliper to "zero reading" before measurements. Thumb roller rolls to the left for outside measurements, to the right for inside measurements. Sturdy plastic construction.

Dial graduations: to the nearest 0.1 mm. **Ruler graduations:** 6″ in 16ths. **Accuracy:** ±0.0015 mm.

Model 31-415-3	C	7 oz.	**59591**	**$48.25**



Model 30-412-1

5428

Measures inside, outside, step, and depth measurements. Top scale in mm, bottom scale in inches. One revolution of the dial equals 0.1″. Drill and tap chart on backface. Made of durable Cycolac plastic. Protective case included. Swiss made.

Measuring range: 6″/150 mm. **Dial graduations:** 0.001″. **Ruler graduations:** out to 150 mm. **Accuracy:** ±0.0015″/0.04 mm.

Model 30-412-1	C	7 oz.	**59596**	**$48.25**

Stainless Steel Dial Calipers

5416

English or Metric

Hardened stainless steel with stained chrome anti-glare scales. Includes fitted case. **Accuracy:** ±0.001″/0.02 mm.

6″ Range	E	15 oz.	**59907**	**$111.00**
200 mm Range	M	1 lb.	**59911**	**$187.00**

Hardened Steel Dial Caliper

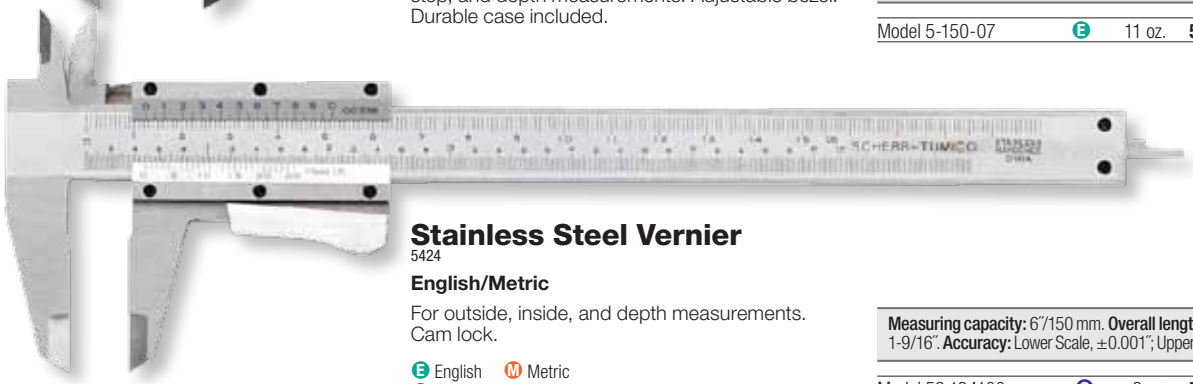
5423

English

Satin chrome finish. Measures inside, outside, step, and depth measurements. Adjustable bezel. Durable case included.

Measuring range: 6″. **Graduations:** 0.001″. **Accuracy:** ±.001″.

Model 5-150-07	E	11 oz.	**59595**	**$38.50**



Stainless Steel Vernier

5424

English/Metric

For outside, inside, and depth measurements. Cam lock.

E English M Metric
C Combination English and Metric

Measuring capacity: 6″/150 mm. **Overall length:** 8″. **Jaw length:** 1-9/16″. **Accuracy:** Lower Scale, ±0.001″; Upper Scale, ±0.05mm.

Model 52 134100	C	8 oz.	**59642**	**$28.75**

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LightLine
Model 10050
SN **93051**
Metric

Micro-Line
Model 20010
SN **93009**
Metric

Micro-Line
Model 20031
SN **93012**
English & Metric

Medio-Line
Model 40300
SN **93013**
Metric

Medio-Line
Model 41002
SN **93629**
English & Metric

Medio-Line
Model 40025
SN **93033**
Newtons

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Pesola® Spring Scales

1234

300g - 2,500g, 3N - 25N

Manufacturer's Warranty 2 Year

Made in Switzerland

Use precision Pesola scales to determine weights or, with the optional pressure set, determine the amount of pressure needed to move objects. Scales are graduated in grams, grams and ounces or Newtons and feature an easy-tare method which allows you to "zero out" container weights up to 20% of scale capacity. Metric/English models feature Metric graduations on one side; English graduations on the other.

Made of corrosion-resistant stainless metal with an abrasion-resistant anodized finish, each scale has a standard eye clip with a crocodile clamp (except 93016, 93030, 93031, 93033, and 93034 which feature a hook end), and can quickly be changed to an optional hook or other attachments (sold separately). Scales work in any position, even overhead. Includes plastic case. Two-year warranty on all models.

Pesola® LightLine Spring Scales

Metric Graduations, 10g - 1,000g.

These ultra-light, precise scales feature a tare screw with incremental rotation to protect against inadvertent adjustment, a colored marker ring for clear, precise readings, and a transparent scale tube for panoramic reading. Two-year warranty. Each LightLine scale comes standard with a crocodile clamp.

Pesola® Micro-Line Spring Scales

Metric or Metric/English Graduations; 10g - 100g; 1 oz. - 3-1/2 oz. (Select Models).

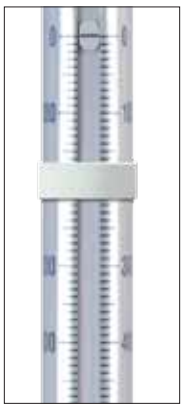
Pesola® Medio-Line Spring Scales

Metric and Metric/English Graduations, 300g - 2,500g Capacity.
Newton Graduations, 3N - 25N Capacity.

Pesola Spring Scales Specifications

	Model	Capacity	Length	Easy-Tare %	Accuracy		Weight	SN	$
LightLine	10010	10g x 0.1g	22.5 cm	15 to 20	±0.3%	M	2 oz.	**93054**	**$36.95**
	10020	20g x 0.2g	22.5 cm	15 to 20	±0.3%	M	2 oz.	**93050**	**$34.75**
	10050	50g x 0.5g	22.5 cm	15 to 20	±0.3%	M	2 oz.	**93051**	**$33.25**
	10100	100g x 1g	22.5 cm	15 to 20	±0.3%	M	2 oz.	**93052**	**$32.25**
	10500	500g x 5g	22.5 cm	15 to 20	±0.3%	M	2 oz.	**93049**	**$32.25**
	11000	1000g x 10g	22.5 cm	15 to 20	±0.3%	M	2 oz.	**93053**	**$37.75**
Micro-Line	20010	10g x 0.1g	22 cm	20	±0.3%	M	2 oz.	**93009**	**$49.95**
	20030	30g x 0.25g	22 cm	20	±0.3%	M	2 oz.	**93010**	**$45.75**
	20060	60g x 0.5 g	22 cm	20	±0.3%	M	2 oz.	**93018**	**$45.75**
	20100	100g x 1g	22 cm	20	±0.3%	M	2 oz.	**93011**	**$45.75**
	20031	30g x 0.25g, 1 oz. x 1/32 oz.	22 cm	20	±0.3%	C	2 oz.	**93012**	**$48.75**
	20103	100g x 1g, 3-1/2 oz. x 1/16 oz.	22cm	20	±0.3%	C	2 oz.	**93628**	**$49.75**
Medio-Line	40300	300g x 2g	22 cm	20	±0.3%	M	2 oz.	**93013**	**$53.95**
	40600	600g x 5g	22 cm	20	±0.3%	M	2 oz.	**93972**	**$53.95**
	41000	1,000g x 10g	22 cm	20	±0.3%	M	2 oz.	**93015**	**$53.95**
	42500†	2,500g x 20g	22 cm	20	±0.3%	M	2 oz.	**93016**	**$55.75**
	40310	300g x 2g, 10 oz. x 1/8 oz.	22 cm	20	±0.3%	C	2 oz.	**93017**	**$53.95**
	41002	1,000g x 10g, 2 lbs. x 1/2 oz.	22 cm	20	±0.3%	C	2 oz.	**93629**	**$53.95**
	40003†	3 N x 0.02 N	22.5 cm	20	±0.3%	N	2 oz.	**93034**	**$53.95**
	40006†	6 N x 0.05 N	22.5 cm	20	±0.3%	N	2 oz.	**93030**	**$53.95**
	40010†	10 N x 0.1 N	22.5 cm	20	±0.3%	N	2 oz.	**93031**	**$53.95**
	40025†	25 N x 0.2 N	22.5 cm	20	±0.3%	N	2 oz.	**93033**	**$59.75**

Note: 93016, 93030, 93034, 93031 and 93033 feature a hook end in place of a crocodile clamp.



Options and Accessories for Pesola LightLine, Micro-Line and Medio-Line

Crocodile Clamp with eye clip	Hook with eye clip	Bird Weighing Cones - Use to weigh birds or small objects	Protective Case - Use this durable, transparent tube case to protect your precision scale while not in use	Strong Clamp with eye clip – for use with weights up to 2,500g (for Medio-Line scales)	Pressure Set - Measures pressure resistance. Consists of a pressure rod, handle, drag pointer and protective tube (for Medio-Line scales)	Drag Pointer - Measures maximum readings obtained per weighing (for Medio-Line scales)
1 oz. **93755** **$2.75**	1 oz. **93724** **$2.50**	3 oz. **93535** **$24.75**	1 oz. **93028** **$2.75**	1 oz. **93047** **$6.75**	2 oz. **93045** **$37.95**	1 oz. **93046** **$1.35**

M Metric
C Combination English and Metric
N Newtons

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Macro-Line
Model 80020
SN **93711**
Metric

Macro-Line
Model 80015
SN **93749**
English & Metric

Manufacturer's Warranty 2 Year

Made in Switzerland

Pesola® Macro-Line Spring Scales

5396

Dynamometers & Penetrometers

Two instruments in one! Use these precision Pesola scales to determine the weights of numerous specimens, or attach the optional pressure set to use them as dynamometers to determine the amount of pressure needed to move objects. With the optional pressure set attached, you can also use these scales as penetrometers to test soil compaction. Pesola scales work in any position — even overhead. Each scale features high quality, non-corroding components housed in an abrasion-resistant anodized aluminum case. Two-sided graduations are inversely proportional so you can easily read measurements from different positions. Metric and English graduated models feature Metric graduations on one side; English on the other. Tare screws allow you to "zero-out" the weight of various containers from 15% to 25% of the scale's capacity. Drag pointers measure the maximum readings obtained per weighing. Handle, drag pointer and plastic case included. Upper and lower suspensions rotate.

Optional Pressure Set

Optional Adaptation Set

Pesola® Macro-Line Options and Accessories

Optional Pressure Set –

Transforms Macro Line Scale to a pressure dynamometer/penetrometer. Pressure rod, threaded hook, handle, and cap nut.

Optional Pressure Set	5 oz.	**93714**	**$33.95**

Optional Adaptation Set –

Extension nut and eye bolt to be used in place of the lower hook of any Pesola Macro Line Scale.

Optional Adaptation Set	2 oz.	**93717**	**$12.50**

Replacement Drag Pointer

For maximum reading per measurement.

Replacement Drag Pointer for Macro Line	1 oz.	**93721**	**$6.75**

Protective Case

Protects scale when not in use.

Protective Case for Macro Line	3 oz.	**93029**	**$5.75**

Pesola® Spring Scales Specifications

	Model	Capacity	Length	Easy-Tare %	Accuracy		Weight	SN	$
Macro-Line	80015	5kg x 50g, 10 lbs. x 2 oz.	37 cm	15 to 25	0.3%	C	15 oz.	**93749**	**$109.50**
	80210	10kg x 100g, 20 lbs. x 4 oz.	37 cm	15 to 25	0.3%	C	1 lb.	**93722**	**$115.25**
	80420	20kg x 200g, 40 lbs. x 8 oz.	37 cm	15 to 25	0.3%	C	1 lb.	**93750**	**$117.25**
	80150	50kg x 500g, 100 lbs. x 1 lb.	37 cm	15 to 25	0.3%	C	1 lb.	**93751**	**$134.95**
	80005	5kg x 50g	37 cm	15 to 25	0.3%	M	15 oz.	**93709**	**$106.95**
	80010	10kg x 100g	37 cm	15 to 25	0.3%	M	1 lb.	**93710**	**$108.75**
	80020	20kg x 200g	37 cm	15 to 25	0.3%	M	1 lb.	**93711**	**$110.50**
	80035	35kg x 500g	37 cm	15 to 25	0.3%	M	1 lb.	**93712**	**$114.50**
	80050	50kg x 500g	37 cm	15 to 25	0.3%	M	1 lb.	**93713**	**$137.50**
	80049	50 N x 0.5 N	37 cm	15 to 25	0.3%	N	14 oz.	**93021**	**$109.25**
	80098	100 N x 1 N	37 cm	15 to 25	0.3%	N	16 oz.	**93022**	**$110.95**
	80196	200 N x 2 N	37 cm	15 to 25	0.3%	N	1 lb.	**93023**	**$112.95**
	80490	500 N x 5 N	37 cm	15 to 25	0.3%	N	1 lb.	**93024**	**$134.50**

M Metric
C Combination English and Metric
N Newtons

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Intercomp CS200™ Digital Hanging Scales

5407

Combination English/Metric

These compact digital hanging scales feature a peak hold mode that is activated when the "Zero" and "lb./kg." keys are held simultaneously and allows you to retain the highest reading on the display until the scale is reset to zero or a higher weight is reached. Other features include digital calibration; high visibility, 1/2″ LCD readout; shock-mounted, ABS-plastic encased electronics; and stainless steel hooks. Weights can be displayed in either pounds or kilograms. Choose from 50, 100, 250, and 500 lb. (25, 50, 125, 250 kg) weighing capacities. Quicklink not included.

Accuracy: ±0.1% of applied load. **Temperature range:** -4°F to +140°F (-20°C to +60°C). **Power:** 9V alkaline (included) or Ni-Cad battery (not included). **Dimensions:** 3.75″ wide x 2″ deep x 6″ high.

50 lb./25 kg Capacity with 0.02 lb./0.01 kg Readability	C	1 lb.	**93682**	**$595.00**
100 lb. /50 kg Capacity with 0.05 lb./0.02 kg Readability	C	1 lb.	**93683**	**$595.00**
250 lb./125 kg Capacity with 0.1 lb./0.05 kg Readability	C	2 lbs.	**93684**	**$595.00**
500 lb./250 kg Capacity with 0.2 lb./0.1 kg	C	2 lbs.	**93680**	**$595.00**

Brecknell

Brecknell ElectroSamson™ Digital Hanging Scales

2566

Combination English/Metric

Easy to use and versatile, this hanging scale features an angled, four-digit crystal display for easy viewing. Results can be displayed in kg, lbs, or lbs/oz. The scale can be held in one hand or suspended from the weighing handle (included) when weighing heavier loads. The scale is housed in a tough ABS case and features tare, hold, and auto shut-off functions. Three models to choose from.

Accuracy: ±0.5% of full range. **Power:** one 9V battery (included). **Dimensions:** 13.5″ x 3.75″ x 2.2″.

22 lbs. x 0.02 lb./10 kg x 0.01 kg	C	2 lbs.	**93702**	**$101.95**
55 lbs. x 0.05 lbs./25 kg x 0.02 kg	C	2 lbs.	**93703**	**$101.95**
100 lbs. x 0.1 lb./45 kg x 0.05 kg	C	2 lbs.	**93704**	**$134.95**

Chatillon Straight Scale "Iron Clad"

5399

English

Built for years of heavy-duty service. All steel and cast iron, reinforced at stress points. Embossed graduations. Accurate to one graduation.

500 lbs. x 5 lbs. 9 lbs.	E	**93598**	**$313.00**

Pelouze® Hanging Scales

5400

English

For use wherever a rugged, heavy-duty, accurate scale is required. Graduations deeply etched for durability and protection. Adjustment screw for zero set. 3-1/4″ x 2-1/2″ x 19″.

110 lbs. x 1 lb. 4 lbs.	E	**93491**	**$54.25**
		3+	**$49.95**
220 lbs. x 2 lbs. 5 lbs.	E	**93490**	**$59.75**
		3+	**$54.95**
330 lbs. x 5 lbs. 5 lbs.	E	**93497**	**$62.75**
		3+	**$58.50**
24″ Suspension Chain 8 oz.		**35811**	**$5.75**

1 Manufacturer's Warranty 1 Year

PESOLA®

Pesola® Digital Hanging Scale

7222

This compact digital hanging scale features an illuminated LCD with large digits, tare function, hold function to freeze and unfreeze the reading, calibration function, low battery warning, and automatic shutoff after 2 minutes. The rugged suspension features a galvanized steel snap-hook and stainless steel S-hook. One-year warranty from the manufacturer.

Resolution: 1:1000. **Operating Temperature:** 32°F to 104°F (0°C to 40°C). **Power:** 2 AA batteries (included).

Model PHS100100 kg/220 lb. Capacity – Divisions: 100 g/0.2 lb.; Precision: ± 100 g/0.2 lb. 2 lbs.	C	**93701**	**$159.95**
Model PHS200200 kg/440 lb. Capacity – Divisions: 200 g/0.2 lb.; Precision: ± 200 g/0.2 lb. 2 lbs.	C	**93700**	**$169.95**

1 Manufacturer's Warranty 1 Year

PESOLA®

Pesola® Digital Hanging Scale

7324

Compact, digital hanging scale in a durable housing with comfortable swivel handle and a large stainless steel hook for precise vertical weighing results. Other features include auto zero function on start up, large LCD display, auto HOLD-function after 3 seconds of stable load, tare function, low battery warning, and overload indication to help protect the load cell. User calibration.

Capacity: 40 kg/88 lbs. **Divisions:** 10g/0.5 oz. **Resolution:** 1:4000. **Precision:** ±20g/1 oz. **Operating Temperature:** 32°F to 104°F (0°C to 40°C). **Total Length:** 7.5″. **Folded Length:** 4.7″. **Power:** 2 AAA Batteries (included).

Pesola Digital Hanging Scale 7 oz.	C	**93719**	**$70.95**

Deer Herd Management Tools page 406

E English
C Combination English and Metric

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Pelouze® Hanging Scale & Steel Scoop
5406

Combination English/Metric

Built to withstand the heavy workload of commercial and industrial use. This rugged steel hanging scale has top and bottom hooks, a round face with one dial, chrome bezel, and painted enamel finish. The dial has bold black numbers and graduations. Scale makes two revolutions. Also available is a large galvanized steel scoop with rolled metal edges for safety. Supported by three metal chains.

70 lb. (31 kg) weighing capacity – Graduated to tenths of a pound and 5g.	C	3 lbs.	**93590**	**$57.50**
Galvanized Steel Scoop, 11″x 17″		2 lbs.	**93591**	**$25.50**

1 Manufacturer's Warranty 1 Year

Table Top Dial Scales
4216

Ideal for shipping, sorting, or laboratory use.

The large, 9″x 9″stainless steel platform accommodates a wide variety of samples. Features include a baked enamel finish; precision machined internal parts; phosphate-coated steel parts and chassis; high precision temperature compensated springs; reinforced dual spring lever mechanism; durable plexiglass lens with aluminum bezel; strong, double bevel base for stability; and a large, easy-to-read, high contrast face. Backed by a one year warranty from the manufacturer. **Dimensions:** 9-1/4″L x 6-3/4″W x 10-3/4″H.

50 lbs. x 2 oz./22 kg x 100 g	C	10 lbs.	**93472**	**$103.00**
20 lbs. x 1 oz./9 kg x 50 g	C	8 lbs.	**93473**	**$91.00**
5 lbs. x 1/2 oz./2.2 kg x 10 g	C	8 lbs.	**93474**	**$91.00**

Ohaus® Triple Pro® Mechanical Balance
7771

10 Manufacturer's Warranty 10 Year

The perfect learning tool for helping students visualize mass measurement principles and to emphasize a hands-on approach to learning! It gives you the confidence to know you have the accuracy and convenience of a toploading balance while allowing students to gain hands-on experience through manipulation of the poises, attachment weights, and the rod and clamp assembly (all included). Features include two notched and tiered beams for easy reading, positive poise positioning for repeatable results, spring-loaded zero adjust compensator, magnetic dampening, an easy-grip carrying handle, two security features, a convenient on-board storage compartment for the included weight set, a built-in transportation/storage lock, and it is backed by a 10-year limited warranty by the manufacturer.

Capacity: 2,610 g (when using the included attachment weight set). **Readability:** 0.1 g. **Calibrations:** Front beam, 10 g x 0.1 g; Middle beam, 500 g x 100 g; Rear beam, 100 g x 10 g. **Stainless Steel Plate Platform:** 5.8″x 5.8″.

Ohaus® Triple Pro® Mechanical Balance	M	8 lbs.	**93492**	**$132.00**

Ohaus® 750SO Triple Beam Balance Scale
6467

This do-anything scale performs like a champion in classroom, lab or plant!

Features three notched and tiered beams with center reading, sliding poises; zero adjust compensator; magnetic damping; equipped for specific gravity weighings - 1/2″ hole in base for lab rod, provision for suspending sample below platform; and die cast aluminum boxed end beam.

Capacity: with optional attachment weight set, 2,610g; without, 610g. **Sensitivity:** 0.1g. **Graduations:** front beam, 10g x 0.1g; center beam, 500g x 100; rear beam, 100g x 10g.

Ohaus 750SO Triple Beam Balance Scale	M	6 lbs.	**93488**	**$134.25**
Optional Metric attachment weight set – two 1,000g and one 500g weights	M	2 lbs.	**93519**	**$46.75**

Ohaus® 1650 Dial-O-Gram Balance Scale
5387

Features a direct reading dial.

The convenience and speed of a direct reading dial calibrated 10g x 0.1g, and much more! Two graduated, notched beams with center indicating sliding poise; undivided tare beam with sliding poise; magnetic damping; zero adjust compensator equipped for specific gravity weighings – 1/2″ hole in base for lab rod, provision for suspending sample below platform; and die cast aluminum box and beam.

Capacity: with optional attachment weight set, 2,610g; without, 610g. **Sensitivity:** 0.1g. **Graduations:** center beam, 500g x 100g; rear beam, 100g x 10g; dial 10g x 0.1g; tare 225g.

Ohaus 1650 Dial-O-Gram Balance Scale	M	8 lbs.	**93489**	**$210.00**
Optional Metric attachment weight set – two 1,000g and one 500g weights	M	2 lbs.	**93519**	**$46.75**

M Metric
C Combination English and Metric

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Ohaus® Valor® 2000 Compact Bench Scale

7422

With an easy-to-clean ABS plastic housing, this water-resistant scale is perfect for use in harsh, wet working conditions. Weight is displayed in lb, oz, g, or kg on both front and rear LED displays. The bright red 7-segment LEDs and simple text prompts guide you through setup and use. Four large adjustable non-slip feet and a level bubble ensure outstanding stability on any surface. The removable stainless steel pan cover makes cleanup easy. A 50-hour internal rechargeable battery allows for ultimate portability. Certified to NSF/ANSI 169 Special Purpose Food Equipment and Devices and is USDA-AMS Accepted to NSF/ANSI /3-A 14159-1 Hygiene Requirements for the Design of Meat and Poultry Processing Equipment.

Model V22PWE15T

Capacity x Readability: 30 lbs. x 0.005 lb.; 480 oz. x 0.1 oz.; 15,000 g x 2 g; 15 kg x 0.002 kg; 30 lb. x 0.1 oz. (lb:oz.). **Tare Range:** To capacity by subtraction. **Stabilization Time:** ≤ 0.5 second. **Operating Temperature Range:** 14°F to 104°F (-10°C to 40°C). **Power:** 12V DC 0.84A AC adapter (included) or internal rechargeable lead acid battery. **Typical Battery Life:** 50 hours with 12 hour recharge time. **Pan Size:** 9.5″ x 7.5″. **Dimensions:** 10.1″W x 4.8″H x 11″D.

Ohaus Valor 2000 Compact Bench Scale, Model V22PWE15T	11 lbs.	**94005**	**$297.50**

Model V22PWE6T

Capacity x Readability: 15 lbs. x 0.002 lb.; 240 oz. x 0.05 oz.; 6,000 g x 1 g; 6 kg x 0.001 kg; 15 lb. x 0.05 oz. (lb:oz.). **Tare Range:** To capacity by subtraction. **Stabilization Time:** ≤ 0.5 second. **Operating Temperature Range:** 14°F to 104°F (-10°C to 40°C). **Power:** 12V DC 0.84A AC adapter (included) or internal rechargeable lead acid battery. **Typical Battery Life:** 50 hours with 12 hour recharge time. **Pan Size:** 9.5″ x 7.5″. **Dimensions:** 10.1″W x 4.8″H x 11″D.

Ohaus Valor 2000 Compact Bench Scale, Model V22PWE6T	10 lbs.	**94004**	**$297.50**

Ohaus® ES Series Bench Scales

6974

1 Manufacturer's Warranty 1 Year

Versatile, low profile design.

This all-purpose bench scale offers simple two-button operation and a large, easy-to-read digital display. For versatility, the scale's 3-way mounting bracket allows you to mount the indicator above the scale platform, to the scale base, or on any vertical surface. The low profile design makes the scale ideal for a variety of weighing applications. Other features include stability indicator, auto-zero tracking, auto-off timer (after five minutes of inactivity), and a large platform with leveling feet. One-year manufacturer's warranty. Three models available.

Capacity x Readability: kg: ES6R, 6 x 0.002; ES50L, 50 x 0.02; ES100L, 100 x 0.05. **lb:** ES6R, 13 x 0.005; ES50L, 110 x 0.05; ES100L, 220 x 0.1. **oz:** ES6R, 211 x 0.1; ES50L, 1,760 x 1.0; ES100L, 3,520 x 2.0. **lb:oz:** ES6R, 13 lb. 3 oz. x 1 oz.; ES50L, 110 lbs. x 1 oz.; ES100L, 220 lbs. x 2 oz. **Weighing units:** kg, lb, oz, lb:oz. **Base size:** ES6R, 12.2″x 10.8″x 1.5″; ES50L and ES100L, 20.5″x 15.7″x 3″. **Typical stabilization time:** within 3 seconds. **Mounting bracket:** 4″. **Platform construction:** ES6R, stainless steel/baked enamel frame; ES50L and ES100L, stainless steel/powder coated frame. **Operating temperature:** -10°C to 40°C. **Power:** 9VDC/AC adapter (included) or six AA batteries (not included). **Typical battery life:** 120 hours (30 hours of continuous use).

Model ES6R 6 kg Bench Scale	C	9 lbs.	**93502**	**$561.95**
Model ES50L 50 kg Bench Scale	C	34 lbs.	**93503**	**$591.25**
Model ES100L 100 kg Bench Scale	C	34 lbs.	**93504**	**$591.25**
AA cell Alkaline Batteries, pack of 4		7 oz.	**02352**	**$3.25**

C Combination English and Metric

Adam Equipment CPW Plus Platform Scales

3704

Portable, easy to use, multi-purpose scales.

These compact scales feature a stainless steel weighing platform with a remote, corded display. Results are shown on the large LCD display in kg, lb., lb.:oz., or oz. Other features include easy 4-button operation, hold function, tare function, gross/net weight function, and RS-232 PC communication capabilities. AC adapter and wall mounting kit for display included.

Capacity: Model CPW Plus 35, 35kg/75 lbs.; Model CPW Plus 75, 75kg/165 lbs.; Model CPW Plus 200, 200kg/440 lbs. **Readability:** Model CPW Plus 35, 10g/0.02 lb.; Model CPW Plus 75, 20g/0.05 lb.; Model CPW Plus 200, 50g/0.1 lb. **Resolution:** 1:2,500. **Linearity:** Model CPW Plus 35, ±0.02kg; Model CPW Plus 75, ±0.04kg; Model CPW Plus 200, ±0.10kg. **Weighing modes:** kg, lb, oz. **Tare:** full capacity. **Calibration:** automatic external. **Stabilization time:** 1 to 2 seconds. **Operating temperature range:** 5°C to 40°C. **Power:** 6 AA batteries or AC adapter (included). **Dimensions:** platform, 12.2″ x 11.8″; unit, 8.3″W x 11.8″D x 2″H.

Model CPW Plus 35, 35kg/75 lb. Capacity Scale	C	11 lbs.	**93505**	**$194.95**
Model CPW Plus 75, 75kg/165 lb. Capacity Scale	C	11 lbs.	**93506**	**$194.95**
Model CPW Plus 200, 200kg/440 lb. Capacity Scale	C	11 lbs.	**93509**	**$209.00**
Carrying Case		8 lbs.	**93511**	**$85.00**

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93995

93996

Ohaus® Pioneer Scales

7421

High performance at an economical price!

With the right combination of performance and features, the OHAUS Pioneer scales offer uncomplicated performance for all your basic weighing needs. Designed with an up-front level indicator to quickly ensure the balance is level prior to use. Selectable Environmental settings, three filter modes and adjustable zero tracking adjust balance sensitivity to environmental disturbances, or application requirements. Other features include: a removable stainless steel weighing platform, high contrast LCD display, fixed integral weigh below hook, all-glass draught shield with 3 sliding doors on 0.1mg and 1mg models, front levelling bubble, menu and calibration locks.

Weighing Modes: mg, g, oz, ozt, ct, GN, dwt, m, N, ti, t HK, t SG, t TW, baht, mesghal, tola. **Operation:** AC Adapter (Included).

Ohaus® Pioneer Precision Model

Precision Model PA153 - 150g x 0.001g, Platform: 120mm	15 lbs.	**93996**	**$1054.85**
Precision Model PA512 - 510g x 0.01g, Platform: 180mm	12 lbs.	**93998**	**$893.35**
Precision Model PA1502 - 1500g x 0.01g, Platform: 180mm	12 lbs.	**93999**	**$1054.85**

Ohaus® Pioneer Analytical Model

Analytical Model PA64 - 65g x 0.1mg, Platform: 90mm	16 lbs.	**93993**	**$1773.10**
Analytical Model PA214 - 210g x 0.1mg, Platform: 90mm	16 lbs.	**93995**	**$2248.25**

93781

93782

Ohaus® Adventurer™ Pro Portable Electronic Balances

2743

Combine versatility and simplicity!

These precision balances feature easy four-button operation and measure in multiple weighing units including g, kg, mg, oz, lbs, ozt, ct, dwt, N, taels (3), ticals, grains, mesghals, mommes, tolas, and custom units. Results are shown on a two-line alphanumeric backlit LCD which also provides text prompts and indicators for stability, overload/underload conditions, and low battery. The balances feature multiple application modes including enhanced parts counting, below-balance weighing, animal/dynamic weighing, check weighing, percentage weighing, totalization, and display hold application modes. Other features include large stainless steel weighing platform, leveling feet for quick set up, an integral weigh-below hook for density or specific gravity determination, and built-in GLP/GMP data output options. Model AV53 also includes a draftshield.

Parts Counting: Standard. **Custom Unit:** Standard. **Power:** 4 AA batteries (not included) or AC adapter (included).

Model AV53	C	6 lbs.	**93780**	**$910.35**
Model AV212	C	4 lbs.	**93781**	**$794.75**
Model AV812	C	5 lbs.	**93782**	**$1004.70**
Model AV2101	C	5 lbs.	**93783**	**$794.75**
Model AV3102, AC operation only.	C	11 lbs.	**93695**	**$1445.85**
Model AV4101	C	5 lbs.	**93726**	**$870.40**
Model AV8101	C	5 lbs.	**93784**	**$981.75**

Accessories

Pelican 1500 Case with Foam Insert, Black	9 lbs.	**35717**	**$151.25**
AA cell Alkaline Batteries, pack of 4	7 oz.	**02352**	**$3.25**

Model	AV53	AV212	AV812	AV2101	AV3102	AV4101	AV8101
Capacity	51g	210g	810g	2100g	3100g	4100g	8100g
Readability	0.001g	0.01g	0.01g	0.1g	0.01g	0.1g	0.1g
Precision	0.001g	0.01g	0.01g	0.1g	0.01g	0.1g	0.1g
Linearity	±0.002g	±0.02g	±0.02g	±0.2g	±0.02g	±0.2g	±0.2g
Pan Size	3.9″Dia.	4.7″Dia.	5.8″x 6.3″	5.8″x 6.3″	6.6″x 7.1″	5.8″x 6.3″	5.8″x 6.3″
WxHxD	7.5″x 5.6″x 10″	7.5″x 2.8″x 10″	7.5″x 2.8″x 10″	7.5″x 2.8″x 10″	8.7″x 7.5″x 11.8″	7.5″x 2.8″x 10″	7.5″x 2.8″x 10″

C Combination English and Metric

[search engine powered by magazooms.com]

Ohaus® Scout Pro Portable Electronic Balances

5377

5 Manufacturer's Warranty 5 Year

Affordable balances, superior performance.

Quick and easy to use with a large stainless steel weighing pan and simple two-button operation. Other features include a large, high contrast LCD display for great visibility; a low profile, ergonomic design; an integral security bracket; auto shut-off; a weigh below hook; a stability indicator; an error indicator for over/under loads; easy calibration; a tare feature, and a sealed front panel and spill ring which prohibit spills from entering the balance. Five-year manufacturer's warranty. Available in four models.

Temperature range: 50°F to 104°F (10°C to 40°C). **Tare:** to capacity by subtraction. **Power:** four AA batteries or the AC adapter (included). **Scale dimensions:** 6.75″ x 2.4″ x 8.25″.

Model SP202, 200g x 0.01g	C	3 lbs.	**93937**	**$307.75**
Model SP401, 400g x 0.1g	C	3 lbs.	**93938**	**$174.95**
Model SP402, 400g x 0.01g	C	4 lbs.	**93958**	**$443.95**
Model SP601, 600g x 0.1g	C	4 lbs.	**93939**	**$252.75**
AA cell Alkaline Batteries, pack of 4		7 oz.	**02352**	**$3.25**
Hard Case		2 lbs.	**93625**	**$83.50**

	SP202	SP401	SP402	SP601
Capacity	200g	400g	400g	600g
Readability	0.01g	0.1g	0.01g	0.1g
Precision	0.01g	0.1g	0.01g	0.1g
Pan Size	4.7″dia.	4.7″dia.	4.7″dia.	6.5″x 5.5″

Note: These scales do not come with leveling feet or a bubble level indicator.

Ohaus® Scout™ Pro Portable Education Balances

2744

Perfect for use in the classroom!

These balances feature simple two-key operation and measure in g, oz, and N (Model SPE601 also measures in lbs.). The balances have multiple application modes including parts counting, percentage weighing, totalization, display hold, and specific gravity. The removable stainless steel weighing platform is easy to clean, and the sealed front panel and molded spill ring protect the balance from spills. The large display provides visual menu prompts and can be easily viewed from any angle so that teachers can check students' results at a glance. Above-balance/specific gravity kit included. Model SPE123 also includes a draftshield.

Power: 4 AA batteries (not included) or AC Adapter (included). **Parts Counting:** Standard.

Model SPE123	C	4 lbs.	**93940**	**$392.70**
Model SPE202	C	3 lbs.	**93941**	**$318.50**
Model SPE401	C	4 lbs.	**93942**	**$179.25**
Model SPE601	C	4 lbs.	**93943**	**$264.95**
AA cell Alkaline Batteries, pack of 4		7 oz.	**02352**	**$3.25**

	SPE123	SPE202	SPE401	SPE601
Capacity	120g	200g	400g	600g
Readability	0.001g	0.01g	0.1g	0.1g
Precision	0.003g	0.01g	0.1g	0.1g
Linearity	±0.01g	±0.01g	±0.1g	±0.1g
Pan Size	3.6″dia.	4.7″dia.	4.7″dia.	6.5″x 5.6″
Dimensions	7.5″W x 4.4″H x 8.3″D	7.56″W x 2.13″H x 8.27″D	7.56″W x 2.13″H x 8.27″D	7.56″W x 2.13″H x 8.27″D

Ohaus® Weight Sets

5385

Precision Stainless Steel Metric Weight Sets

Stainless steel metric weight set. Weights of 1g or greater are adjustable to OIML M2 tolerance and ASTM Class 6 tolerance.

50g x 10mg set, 16 weights	M	1 lb.	**93517**	**$139.95**
1,000g x 1g set, 13 weights	M	7 lbs.	**93518**	**$351.25**

M Metric
C Combination English and Metric

[search engine powered by magazooms.com]

Ohaus® CS 2000 "Portable Standard" Balance

5378

Simple, one-button operation.

1 Manufacturer's Warranty 1 Year

Features high contrast LCD display, three-second stabilization time, and tare feature. A switch in the bottom allows it to display in grams or pounds:ounces. Shuts off automatically after five minutes (when using battery). Low battery indicator. Operates on three AA batteries (included). An AC adapter is also included. One-year manufacturer's warranty.

Capacity: 2,000g/4 lbs., 6.5 oz. **Readability:** 1g/0.05 oz. **Stabilization time:** 3 seconds. **Precision (standard deviation):** 1g. **Temperature range:** 18°C to 25°C. **Platform size:** 5.75″ x 5.25″ oval. **Dimensions:** 7.5″L x 5.3″W x 1.5″H.

Model CS 2000, 2,000g x 1g	C	2 lbs.	**93608**	**$101.95**
Replacement AC Adapter		7 oz.	**93579**	**$34.95**
Optional Hard Case		2 lbs.	**93620**	**$37.95**
AA cell Alkaline Batteries, pack of 4		7 oz.	**02352**	**$3.25**

Ohaus® Hand-Held Scales

6470

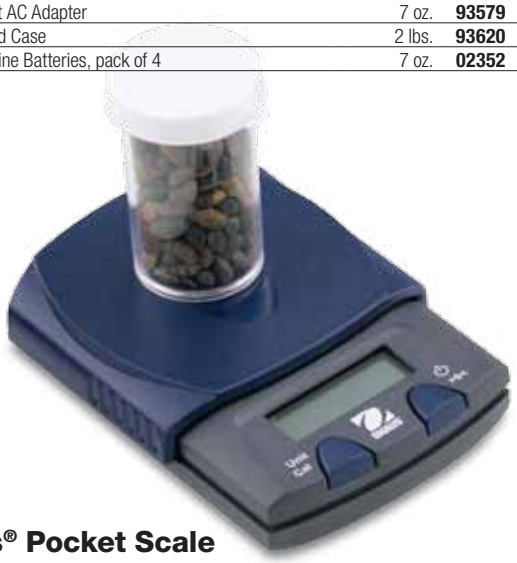
Take these scales anywhere!

1 Manufacturer's Warranty 1 Year

Features include an energy-saving auto shut-off feature; a large, high contrast, backlit display; rugged plastic construction; and display indicators for low battery, overload, and underload conditions. Includes 2 AAA batteries and a protective snap-on plastic cover. One-year manufacturer's warranty.

Capacity: Model HH-120D, 120 g; Model HH-320, 320 g. **Readability:** 0.1 g. **Linearity (g):** ±0.2. **Weighing units:** Model HH-120D, g; Model HH-320, g, oz, dwt, oz t. **Calibration:** auto calibration from keypad. **Stabilization time:** 3 seconds. **Optimum operating temperature:** 64°F to 77°F (18°C to 25°C). **Weigh pan size:** 3.25″L x 3.0″W. **Power requirements:** 2 AAA alkaline batteries (included). **Dimensions:** 5.35″L x 3.25″W x 0.8″H.

Model HH-120D	C	9 oz.	**93952**	**$106.25**
Model HH-320	C	10 oz.	**93953**	**$156.75**



Ohaus® Pocket Scale

4583

The rugged and innovative design of these portable scales lets you take the precision of an Ohaus scale anywhere with capacities up to 250g and readabilities of 0.1g. The unique sliding pan acts as a protective cover when not in use, and the piano style buttons provide tactile feedback while offering maximum durability to bumps and drops.

Tare Range: To capacity by subtraction. **Calibration:** External Digital. **Stabilization Time:** 2 seconds. **Units:** g, oz., ozt., dwt. **Power:** 2 Lithium Batteries (included). **Display:** 8.9mm H x 4mm W. **Pan Size:** 2.36″H x 2.75″W. **Dimensions:** 3.66″L x 2.87″W x 0.74″H.

120g Pocket Scale	C	5 oz.	**94002**	**$42.75**
			4+	**$39.75**
250g Pocket Scale	C	5 oz.	**94003**	**$56.50**
			4+	**$51.25**

	120g Pocket Scale	250g Pocket Scale
Capacity	120g	250g
Readability	0.1g	0.1g
Linearity	±0.1	±0.1

C Combination English and Metric

Brecknell Electronic Pocket Balance

2567

Compact and lightweight, this pocket balance weighs in a variety of units (g, oz, dwt, and ozt) and also features a parts counting mode. Housed in a durable ABS case, the balance features a top plate cover which protects the weighing platform and also acts as a draft shield for more accurate weighing. The auto power off feature helps to increase battery life. Instruction manual and batteries included.

Capacity: 500g. **Readability:** 0.1g. **Accuracy:** 0.01% or 0.5g. **Weighing modes:** g, oz, dwt, ozt, parts counting. **Temperature range:** 10°C to 35°C. **Power:** 2 AAA batteries (included). **Platform dimensions:** 2.4″ x 3″. **Unit dimensions:** 5.2″ x 3.2″ x 0.9″.

Brecknell Electronic Pocket Balance	C	7 oz.	**93706**	**$84.25**
			3+	**$73.75**

DESKTOP. TABLET. MOBILE.
THE NEW FORESTRY-SUPPLIERS.COM

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Ohaus® Navigator® Series Portable Scales

3911

The touchless sensors of these portable scales free up your hands for other tasks and help avoid the transfer of sample residue to the keypad! The two touchless sensors can be set up independently to control up to 36 combinations of operations. The Navigator Series also offers ultra-fast response time, superior overload protection (up to 400% of its rated capacity), and multiple application modes including counting, percent weighing, checkweighing, display hold, and accumulation/totalization. Other features include a backlit display, an internal rechargeable battery, a menu lock switch, an illuminated up-front level indicator, skid-resistant leveling feet, a transportation lock, and a security bracket.

Weighing Units: gram, kilogram, pound, ounce (decimal or fractional), pound:ounce (decimal or fractional), ounce Troy, grain, Newton, carat, pennyweight, Hong Kong Tael, Taiwan Tael, Singapore Tael, Tical, and Tola. **Tare Range:** Full capacity by subtraction. **Display:** Backlit LCD - 6-Digit 7-segment with white LED backlight. **Stabilization Time:** ≤1 second. **Operating Temperature:** 50°F to 104°F (10°C to 40°C) at 20% to 85% relative humidity, non-condensing. **Calibration:** User-selectable external span or linearity calibration/Digital with external weight. **Battery Power:** Internal rechargeable lead acid battery, 6V1.2AH (100-hour typical operation with 12-hour full charge), or 4C (LR14) batteries (not included). **Scale Dimensions:** 9.5″x 9.8″x 2.9″. **Pan Dimensions:** 9″x 6.9″. **Weight:** 4.3 lbs.

Model NVT16000/1 – Capacity x Maximum Displayed Readability: 16,000g x 1g; 32 lb. x 0.002 lb.; 515 oz. x 0.05 or 1/8 oz.; 16 kg x 0.002 kg.	6 lbs.	**93483**	**$391.50**
Model NVT1601/1 – Capacity x Maximum Displayed Readability: 1,600g x 0.1g; 3.2 lb. x 0.0002 lb.; 51 oz. x 0.005 or 1/8 oz.; 1.6 kg x 0.0001 kg.	6 lbs.	**93484**	**$391.50**
Model NVT3201/1 – Capacity x Maximum Displayed Readability: 3,200g x 0.2g; 6.4 lb. x 0.0005 lb.; 102 oz. x 0.01 or 1/8 oz.; 3.2 kg x 0.0002 kg.	6 lbs.	**93485**	**$391.50**

X-Rite ColorChecker® Chart page 316

Manufacturer's Warranty 2 Year

Pesola® Digital Pocket Scales

7626

Professional digital pocket scales have four different weighing units. Stable hinged cover protects the whole scale from dirt and damage. Quick user guide in English and German on the inside of the cover. Innovative load cell design provides extreme overload resistance. Linear and Fine electronics provide precise measuring results — even at the edges of the platform. Large stainless steel platform is the highest element of the scale, allowing weighing of oversize objects. Fat design perfectly fits a waistcoat pocket.

Capacity: 500g Model, 500g/17.65 oz./ 321.5 dwt / 7716 gn; 1,000 g Model, 1,000g / 35.27 oz. / 32.15 ozt / 643 dwt. **Readability:** 500g Model, 0.1g / 0.01 oz. / 0.1 dwt / 1.5 gn; 1,000g Model, 0.1g / 0.01 oz. / 0.006 ozt / 0.2 dwt. **Linearity:** 500g Model, ±0.1g; 1,000g Model, ±0.2g. **Tare Range:** up to 100% of capacity (does not reduce weighing range). **Units:** 500g Model, g, oz., dwt, gn; 1,000 g Model, g, oz. ozt., dwt. **Power:** 2 "AAA" batteries. **Display:** 4 digits, 10 mm high, with backlight. **Pan Size:** 3.03″x 2.6″. **Dimensions:** 5″x 3.03″x 0.75″.

500g	5 oz.	**93604**	**$65.25**
1,000g	4 oz.	**93607**	**$66.25**

Ⓒ Combination English and Metric

Manufacturer's Warranty 2 Year

Pesola® Touch Screen Digital Pocket Scale

7625

Extreme resolution of 0.01g over a wide capacity range of 200g. Stainless steel platform is protected by a transparent cover that doubles as a weighing bowl if used upside down. A quick user guide in English is attached to the inside of the hinged, stable cover. The illuminated touch screen with large keys and figures is easy to operate. A counting function for small identical parts is included. Four different weighing units. Professional 2-step user calibration with optional weights (sold separately). Backed with a 2-year warranty from the manufacturer.

Capacity: 200g / 128 dwt / 3086 gn / 1000 ct. **Readability:** 0.01g / 0.01 dwt / 0.1 gn / 0.1 ct. **Linearity:** ±0.02g. **Tare Range:** up to 100% of capacity (does not reduce weighing range). **Units:** g, dwt, gn, ct. **Power:** 2 AAA batteries. **Display:** 5 digits, 9.5 mm high, with backlight. **Pan Size:** 2.68″ x 1.78″. **Dimensions:** 4.75″x 2.8″x 0.70″.

Pesola Touch Screen Digital Pocket Scale	5 oz.	**93602**	**$92.50**

Manufacturer's Warranty 2 Year

Pesola® Professional Digital Platform Scale

7624

Metric/English, 3,000g/6.6 lb. Capacity

This high quality, universal scale is great for use in research, production, laboratories, schools, postal applications, etc., plus it can be used for counting. Simple operation with 4 keys and an illuminated LCD. User calibration for best precision (weights sold separately). Energy saving function shuts the scale off after 120 seconds. Two year warranty from the manufacturer.

Weighing Modes: g, oz. **Capacity:** 3,000g/6.6 lbs. **Readability:** 0.1g/0.1 oz. **Linearity:** ±0.2g/0.2 oz. **Tare Range:** up to 100% of capacity. **Calibration:** 4 x 500g, 2 x 1 kg or 1 x 1 kg + 1 x 2 kg. **Power:** 4 AA alkaline batteries (included). **Dimensions:** Platform, 5.5″x 5.5″Unit, 7.9″x 6″x 1.25″.

Pesola Professional Platform Scale	Ⓒ	2 lbs.	**93600**	**$120.95**

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Sheet Holders
pages 20 & 21

Rite in the Rain Books
page 553

Sper Scientific Metric Conversion Calculator
2805

Provides U.S. to metric and metric to U.S. conversions of volume, area, length, weight, and temperature. Also functions as a standard calculator. Results are shown on a large, easy-to-read eight-digit display. The solar-powered calculator features an automatic power off function and utilizes a back-up battery for operation in low light areas. Includes hard folding case, button cell batteries, and instructions. Five-year manufacturer's warranty.

Dimensions: 5″x 3″x .5″. **Weight:** 2.6 oz.

Sper Scientific Metric Conversion Calculator	C	3 oz.	**34270**	**$25.95**

Sharp® Solar Scientific Calculator
5409

Switches between solar and battery in low light. Performs 238 functions including trigonometric and fraction calculations and Single Variable Statistics, plus Polar and Time conversions! It can also perform conversions between numbers expressed in binary, octal, decimal, and hexadecimal systems. Features D.A.L (Direct Algebraic Logic) for easier equation entry, one permanent memory and a 10-digit display with two-digit exponent. Uses one CR 2016 battery for backup power. Operation manual, hard case, and batteries included. Measures 3″W x 5-5/8″L x 5/16″H.

Sharp Solar Scientific Calculator		8 oz.	**34287**	**$16.75**
		10+		**$14.95**

Manufacturer's Warranty 1 Year

Hewlett-Packard HP35s Scientific Calculator
8549

The ultimate RPN scientific programmable calculator! Allows you to switch between RPN (Reverse Polish Notation) and algebraic entry-system logic at any time. The HP 35s is completely programmable and features a two-line display, 31 KB of memory, 100 built-in functions, and the powerful HP Solve application which allows you to solve for any variable without rewriting your equation. The HP35s also uses strong statistics functions for single and two-variable statistics, linear regression and more; it has the power to calculate inverse functions, cube root, logarithms, exponents, factorials and more; a powerful fraction mode plus fraction-to-decimal conversion; and it is permitted for use on SAT Reasoning Test, SAT Subject Tests in Mathematics Level 1 and Level 2, ACT Mathematics Test, PSAT/NMSQT, AP Chemistry/Physics, PLAN, and EXPLORE. A protective case is included.

Display Size: 2 lines x 14 characters plus indicators. **Contrast:** Adjustable. **Power:** 2 CR2032 batteries (included). **Dimensions:** 3.25″x 0.5″x 6.25″. **Warranty:** 1 year from the manufacturer.

HP35s Scientific Calculator		15 oz.	**34035**	**$81.25**

Measure Master Pro™
4011

Feet-Inch-Fraction and Metric Calculator

You'll get professional results every time with the Measure Master Pro! Work and convert in all dimensional formats including feet-inch-fractions, decimal inches, fractions, yards, meters, centimeters, and millimeters. You can even obtain area and volume measurements, find weight and weight per volume, and instantly solve circle area, circumference, arcs, and more! This powerful calculator fits in a pocket, briefcase, or tool pouch for easy access.

Measure Master Pro	C	11 oz.	**34292**	**$39.95**

C Combination English and Metric

Sharp® Dual-Powered Basic Calculator
5412

Automatically switches from solar to battery power in low light! Features percent and square root keys, an oversized + key, plus eight-digit display and three-key memory. All keys are made of non-slip rubber. Measures 2-17/32″W x 4-1/8″L x 7/16″H.

Sharp Dual-Powered Basic Calculator		3 oz.	**34289**	**$5.95**
		10+		**$4.95**

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Dual Display Digital Stopwatch
5349

See two different functions displayed at the same time.

Times up to 10 hours in 1/100 seconds. Single Event, split, and lap functions. Countdown timer in 1/100 sec. to 10 hrs., with auto-repeat function, counter, and signal. Water-resistant. Battery included.

Dual Display Digital Stopwatch	4 oz.	**92628**	**$32.95**
		5+	**$29.50**

Extech® Digital Stopwatch/Clock
5575

Water-resistant stopwatch/clock counts up to 59 minutes, 59.99 seconds with an accuracy of 1/100th of a second. Large LCD displays accumulated elapsed time and split time measurements. Also features a calendar and 12/24 hour clock with settable hour chime, wake, and snooze alarm. Includes 39″ neck strap and battery.

Digital Stopwatch/Clock	3 oz.	**92637**	**$22.95**
		5+	**$20.99**

Mechanical Stopwatch
5348

This 1 jewel, mechanical tempo stopwatch has colored push buttons and is shock protected. Features a 60 second sweep, a 1/5 second recorder, a 0 to 30 second Register, an unbreakable main spring, pinlever movement, and ABS case. Includes lanyard.

Mechanical Stopwatch	3 oz.	**92630**	**$109.95**

Accusplit AX705 Magnum Stopwatch
5345

This professional stopwatch gives you outstanding precision to 1/100 seconds! Displays first 10 minutes on a super large display – displays total time to 10 hours. Includes a "time-out" function so you can stop the watch at any time, then restart it and maintain the total running time for any procedure you are timing. Designed for right- or left-hand operation. Durable construction, lanyard included. Three-year battery.

Accusplit AX705 Magnum Stopwatch	3 oz.	**92501**	**$21.95**
		5+	**$20.25**

Accusplit AX625 Stopwatch
5351

Water and impact-resistant! Displays time on large display from 10 hours down to 1/100 seconds. Gives you both cumulative and split times. Lanyard and three-year battery included.

Accusplit AX625 Stopwatch	3 oz.	**92502**	**$21.95**
		5+	**$20.25**

H-B Quadruple Timer
8671

Four timers count down/up simultaneously. Time is displayed in the 12/24 hour format and it has a 100 hour count down/up time with memory for preset value. Alarm. Foldaway stand and magnetic back, desk mountable. CE Mark Certified. Battery included.

Quadruple Timer	4 oz.	**92626**	**$20.25**

Traceable® Waterproof/ Shockproof Stopwatch
7782

Times to 24 hours. Features single-action, time-out, cumulative-split, and continuous timing. Timing resolution is 1/100th of a second for the first 30 minutes and then one second thereafter. As a chronograph, the unit displays time-of-day in hours, minutes, and seconds; AM/PM date; and day of the week. Time-of-day alarm. O-ring sealed and shockproof ABS plastic housing. Includes Traceable® certificate indicating traceability to NIST standards, lanyard, and two-year battery.

Traceable Waterproof/Shockproof Stopwatch	3 oz.	**92482**	**$16.75**

Quartz Digital Timer with Alarm
5350

Timer counts down from 99–0 min./sec. Stopwatch counts up from 0–60 min./sec. (will recycle back to 0). Features a built-in alarm, time-out functions, 1/2″ LCD, magnetic back, and clip. Battery included. 2-1/2″ x 2-1/2″.

Quartz Digital Timer with Alarm	3 oz.	**92625**	**$27.50**

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Protective Wear And First Aid

Pages 594 thru 659

Emergency Eyewash, Safety Eyewear, Hard Hats, Hearing Protection, Respirators, Gloves, Snake Boots, Insect Protection, Wound Care and More.

DuPont® Tyvek® Safety Wear

Pages 614 and 615

Tyvek is a tough, lightweight fabric that has outstanding tensile and tear strength, is equally strong (wet or dry) and is treated with a topical antistatic agent to minimize static build-up.

New! Plastic Inoculating Loops

4978

Use these disposable, economical 10µl plastic loops when flame sterilization is not necessary. Sterilized and packed in a sleeve of 30. **Overall Length:** 8.75″.

Plastic Inoculating Loops, Pack of 30			
1 oz.		**53862**	**$2.85**
	6+		**$2.60**

Petri Dish

4483

100 x 15 mm sterile plastic petri dish. Pack of 20.

Petri Dish, Pack of 20			
12 oz.		**53858**	**$6.50**
	10+		**$5.75**

Counter-Pen™

8399

A marker and digital counter combined in one housing designed for the lab and plant. Each time a black mark is made with the felt-tipped pen, it automatically sounds a beep and the LCD displays the counts. Provides audio/visual counts to 99999 with reset button, on/off switch, and pen cap. Made of durable ABS plastic. 6″ x 2/3″.

Counter Pen	2 oz.	**53036**	**$17.95**
Repl. Ink Cartridge, Green	1 oz.	**53037**	**$6.75**
Optional Ink Cartridge, Black	1 oz.	**53038**	**$6.75**

Digital Counter

8398

Counts from 0 to 99,999. Features button click for count confirmation and recessed "no-accident" reset. The counter is housed in a water-resistant, O-ring-sealed, shock-resistant ABS plastic case and features a belt clip, wrist strap, and carabiner. **Dimensions:** 1-7/8″ x 1/2″.

Digital Counter	2 oz.	**53031**	**$13.50**
	10+		**$11.25**

Gravity Convection Lab Oven

4172

Durability and versatility in an energy efficient lab oven!

This gravity convection lab oven is ideal for drying, baking, sterilizing, evaporating, heat treating, annealing, and testing. The oven uses energy efficient, low-watt density incoloy-sheathed elements for rapid run-up and recovery times. The control panel features an illuminated on/off rocker switch, a heat/cycle pilot light, and a bimetal thermostat. The oven's interior is constructed of corrosive-resistant aluminized steel, and the interior work space is insulated from the outer cabinet with 1″ of high-density mineral wool. The cabinet is constructed of heavy double-wall steel, and the exterior has a scratch-resistant hammer finish for durability. The oven door has a high-impact thermoplastic handle. UL- and CSA-recognized oven components.

Cubic foot capacity: 0.7 cubic feet. **Maximum temperature:** 437°F (225° C). **Wattage:** 600W. **Amps:** 5.22. **Interior dimensions:** 12″W x 10″H x 10″D. **Exterior dimensions:** 14″W x 17″H x 12″D.

Gravity Convection Lab Oven	O	42 lbs.	**54145**	**$445.75**

O Oversize. Ships at Oversize rate. See Shipping Information for details.

Analog Incubator

1 Manufacturer's Warranty 1 Year

4486

Versatile, this compact incubator is ideal for cultures, test kits, eggs and biologicals! The see-through tinted acrylic door enables you to see the entire work space without opening the door. Temperatures up to 62°C can be maintained accurately and uniformly thanks to the sensitive heat controller which maintains the temperature to ±1/2°C. The large 0.7 cu. ft. capacity allows beakers, flasks, petri dishes and test tubes to all be processed at the same time. Other features include a chrome-plated adjustable shelf, a chrome-plated fixed bottom shelf, an aluminum interior with fiberglass insulation and the exterior is baked-on enamel.

Interior: 12″W x 10″D x 10″H. **Exterior:** 12-7/8″W x 10-3/4″D x 15″H. **Power:** 120V AC, 100W, 3-prong grounded plug. **Temperatures:** to 62°C. **Warranty:** One year from the manufacturer with a two-year warranty on the heating element.

Analog Incubator	O	23 lbs.	**54144**	**$388.95**
		2+		**$248.50**

Digital Incubator

The features of the analog model with ease of temperature setting and the stability of a full PID microprocessor that maintains settings within ±0.4°C. A temperature tracking feature stores temperature deviation from the set point helping to confirm stability or indicate any control malfunction or power loss throughout a process period. Large LED's continuously display process temperature and a setting lock mode protects against inadvertent adjustment.

Digital Incubator	2 oz.	**54143**	**$592.50**

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Unisex Lab Coat
8662

Great quality lab coats for use in labs and hospitals. Easy to wash. Other features include a full 42″ length, 3 patch pockets, side hand access, and it's made of soft and comfortable poplin fabric in 45% Polyester/55% Cotton. White.

Size	Weight	SN	Each	12+
Small	1 lb.	**33334**	**$19.95**	**$17.95**
Medium	1 lb.	**33335**	**$19.95**	**$17.95**
Large	1 lb.	**33337**	**$19.95**	**$17.95**
Extra Large	1 lb.	**33339**	**$19.95**	**$17.95**

Classroom Rubberized Lab Apron
7512

Provides the optimum protection against solvents, oils, and hot liquids. Made of chemically-resistant rubber. Flexible and lightweight. Reinforced at points of strain. Ties at waist and neck.

Small, 24″W x 30″L	2 oz.	**33345**	**$9.95**
		12+	**$7.70**
		24+	**$7.00**
Medium, 27″W x 36″L	2 oz.	**33346**	**$9.95**
		12+	**$7.70**
		24+	**$7.00**

Nitrile Industrial Apron
5343

Resists acids, solvents, oil, and animal fats. Double-coated material is superior to neoprene and natural rubber for abrasion, cut and puncture resistance. Nickel-plated brass grommets, 48″ rope ties. Gray. 35″W x 45″L.

Nitrile Industrial Apron	2 lbs.	**33338**	**$24.25**

Lab Spatula
7226

Stainless steel spatula for use in the lab. One end is flat and the other is bent. **Length:** 4″ (10cm).

Lab Spatula, Pack of 10	2 oz.	**54010**	**$13.50**
		10+	**$12.75**

Lab Tools Kit
4487

An assortment of the most commonly used lab tools found in one convenient set. Includes one each of the following: test tube brush, spatula, crucible tongs, test tube clamp, lab scoop, and forceps.

Lab Tools Kit	9 oz.	**54000**	**$12.95**

New! Stainless Steel Scoop
4984

5 oz. scoop is made from durable, high-quality stainless steel.

Stainless Steel Scoop	4 oz.	**54001**	**$3.95**
		6+	**$3.70**

Nalgene® Lab Pen
5330

NALGENE®

Ideal for providing permanent work records.

Felt-tip pen has specially formulated, quick-drying black ink to provide the ultimate chemical and water resistance with Poly-paper. An excellent indelible pen for use on plastic or glass, the ink will even stand up to repeated autoclaving. Cap has a convenient pocket clip.

Lab Pen	1 oz.	**53683**	**$6.35**
		12+	**$6.15**

[search engine powered by magazooms.com]

Alconox® Powdered Detergent
3267

Cleans in all types of water!

Removes blood, fats, soils, and grime from glass, porcelain, metal, rubber, fiberglass, and plastic. Can be used on soft metals such as copper, aluminum, zinc, and magnesium, if rinsed promptly. Leaves no residue. Biodegradable and readily disposable. Ideal for critical cleaning and for tissue culture tubes. Can also be used to clean personal protective equipment, sampling apparatus, tanks, and reactors. pH range 9.0 to 9.5. High foaming – not for machine or spray use.

4 lb. Box 4 lbs.	**17081**	**$34.25**
Box of 50 1/2 oz. packets 2 lbs.	**17082**	**$56.25**

Liqui-Nox Liquid Detergent
3269

For critical cleaning of analytical equipment.

Removes oil, grit, grime, fats, oils, blood, chemicals, and solvents that may affect results. For use with glass, metal, stainless steel, porcelain, plastic, and fiberglass. Can be used on soft metals if rinsed promptly. Phosphate free, biodegradable, and readily disposable. Can also be used to clean personal protective equipment, metal castings, industrial parts, tanks, and reactors. Highly effective in hard water. EPA standard detergent for sampling apparatus. pH range 8.2 to 9.2. High foaming – not for machine or spray use.

One Gallon Jug 9 lbs.	**17083**	**$65.75**
	4+	**$60.25**

Glass Eyedropper
5303

This dropping pipette is 4-1/2″L, made of glass, and features a rubber bulb. **Capacity:** 2 ml.

Glass Eyedropper 1 oz.	**53679**	**$0.50**
	12+	**$0.35**
	24+	**$0.30**

Erlenmeyer Flasks
2927

Narrow mouth flask. Complies with ASTM E1404, Type I, Class 1.

50 ml Capacity, 10 ml Graduations, #1 Stopper Size, Pack of 12 2 lbs.	**54160**	**$28.95**
125 ml Capacity, 25 ml Graduations, #5-1/2 Stopper Size, Pack of 12 3 lbs.	**54161**	**$24.95**
250 ml Capacity, 25 ml Graduations, #6 Stopper Size, Pack of 12 5 lbs.	**54162**	**$27.95**

Griffin Graduated Glass Beakers
2926

Made of borosilicate glass. Extra-large marking spot. Mechanical and thermal shock resistant. Beakers comply with ASTM E960 standards.

Capacity	Graduations	Grad Range	Pack of	Weight	SN	Pack
30 ml	10 ml	5 ml to 25 ml	12	15 oz.	**54118**	**$30.50**
50 ml	10 ml	10 ml to 40 ml	12	1 lb.	**54119**	**$28.25**
100 ml	10 ml	20 ml to 80 ml	12	2 lbs.	**54120**	**$27.75**
150 ml	20 ml	20 ml to 140 ml	12	3 lbs.	**54121**	**$26.25**
250 ml	25 ml	25 ml to 200 ml	12	4 lbs.	**54122**	**$27.90**
400 ml	25 ml	25 ml to 325 ml	12	6 lbs.	**54123**	**$33.25**
600 ml	50 ml	50 ml to 500 ml	6	4 lbs.	**54124**	**$30.80**
1,000 ml	50 ml	100 ml to 1,000 ml	6	6 lbs.	**54125**	**$45.50**

Glass Graduated Cylinders
2925

Each cylinder features white enamel graduations and a plastic bumper guard. Calibrated "to deliver." Cylinders comply with Class B, ASTM E1272, E542 standards.

10 ml, 0.1 ml Graduations 11 oz.	**54153**	**$7.95**
25 ml, 0.5 ml Graduations 3 oz.	**54154**	**$8.95**
50 ml, 1 ml Graduations 4 oz.	**54155**	**$9.95**
100 ml, 1 ml Graduations 7 oz.	**54156**	**$10.95**
250 ml, 2 ml Graduations 12 oz.	**54157**	**$14.95**
500 ml, 5 ml Graduations 1 lb.	**54158**	**$20.95**

Flat Bottom Florence Flasks
2928

Each boiling flask features a flat bottom and tooled mouth. Complies with ASTM E1403 Type I, Class 1.

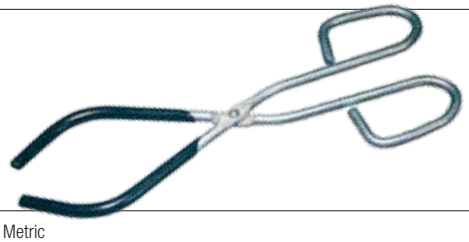
50 ml Capacity, #1 Stopper Size, Each 2 oz.	**54164**	**$4.95**
125 ml Capacity, #2 Stopper Size, Pack of 24 4 lbs.	**54165**	**$91.95**
250 ml Capacity, #5 Stopper Size, Pack of 24 8 lbs.	**54166**	**$91.95**

Bomex® Beakers
5317

Made from sturdy Borosilicate glass with a low coefficient of expansion. Features heavy wall construction to resist breakage, permanent graduations in white, and a large marking square.

100 ml, grad. every 25 ml. 12/cs. 2 lbs. Ⓜ	**54111**	**$27.95**
250 ml, grad. every 50 ml. 12/cs. 3 lbs. Ⓜ	**54113**	**$29.50**
600 ml, grad. every 100 ml. 6/cs. 3 lbs. Ⓜ	**54115**	**$20.95**

12″ Spirit-Filled Lab Thermometer page 480



Beaker Tongs
7268

For handling beakers 50 to 2,000 ml capacity. Flat riveted joint. Steel-plated. Coated jaws provide grip.

Maximum Jaw Opening: 5-1/2″. **Length:** 9″.

Beaker Tongs	7 oz.	**54116**	**$5.30**

Ⓜ Metric

[search engine powered by magazooms.com]

New! Polymethylpentene (PMP) Large Capacity Beaker
4979

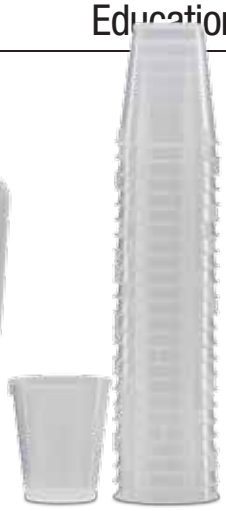
Polymethylpentene beaker features a pouring spout. Tapered design allows for easy holding and stacking. Silk-screened graduations. Autoclavable.

5,000 ml Capacity 13 oz.	**54100**	**$39.75**
10,000 ml Capacity 3 lbs.	**54101**	**$72.75**

New! Polypropylene Beaker with Handle
4976

Ideal for general laboratory use. This polypropylene beaker features a spout, and the rectangular handle allows for easy carrying and pouring. Silk-screened graduations. Autoclavable.

100 ml Capacity 1 oz.	**53840**	**$1.95**
	6+	**$1.80**
500 ml Capacity 3 oz.	**53841**	**$3.75**
	6+	**$3.35**



New! Stackable Polypropylene Beakers
4983

These polypropylene beakers are extremely flexible, and a gentle squeeze creates a spout anywhere on the rim. Ribs prevent the beakers from sticking together when stacked. Pack of 25.

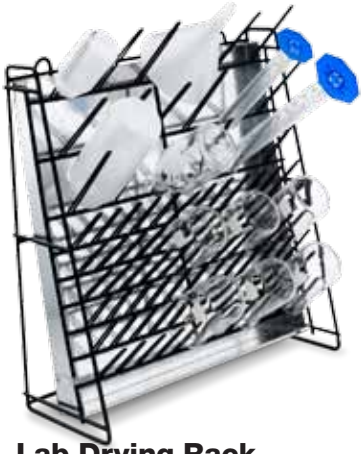
Capacity: 120 ml (4 oz.). **Graduation Interval:** 10 ml (0.5 oz.).

Stackable Polypropylene Beakers, Pack of 25 11 oz.	**54147**	**$7.10**
	4+	**$6.55**

New! Plastic Beaker Set
4980

This handy set of five graduated polypropylene beakers includes the following capacities: 50 ml, 100 ml, 250 ml, 500 ml, and 1,000 ml.

Plastic Beaker Set 11 oz.	**54146**	**$9.25**



Lab Drying Rack
4478

Use to drain, dry and store test tubes, beakers, flasks and miscellaneous lab glassware. An integral drain pan collects water keeping counter space dry. Black vinyl coating cushions the glassware and protects the heavy gauge wire from rusting. Rack can be used standing up, lying down or mounted to a wall. **Capacity:** 90 pieces of glassware on 72 pins 3″ long and 18 pins 6″ long. **Dimensions:** 18-1/2″W x 7-1/8″L x 19″H.

Lab Drying Rack 10 lbs.	**54106**	**$96.95**
	3+	**$92.95**

Pipettes
8223

Made of low-density polyethylene, non-sterile, graduated. Non-breakable, these all-in-one pipettes eliminate the hazards of broken glass and exposure to infectious materials. 100 Pipettes per box.

1.0 ml Plastic Pipette, 0.25ml graduations, 4 oz. Capacity 4 oz.	**53891**	**$5.20**
	5+	**$4.75**
3.0 ml Plastic Pipette, 0.5ml graduations, 8 oz. Capacity 5 oz.	**53892**	**$5.20**
	5+	**$4.75**

NALGENE®

Nalgene® Griffin Low-Form Graduated Beakers
5316

Polypropylene beakers for general laboratory use. Superior chemical resistance. All size beakers have easy-to-read silk-screened graduations, plus catalog number, size code, resin code, maximum use temperature, and "no flame" symbol. With ribs for easy stacking.

250 ml, grad. every 25 ml 2 oz. Ⓜ	**53609**	**$7.25**
	12+	**$6.75**
600 ml, grad. every 50 ml 3 oz. Ⓜ	**53610**	**$13.25**
	12+	**$12.25**
1,000 ml, grad. every 50 ml 5 oz. Ⓜ	**53611**	**$15.75**
	12+	**$14.50**

New! Polymethylpentene (PMP) Beaker
4982

Made of polymethylpentene, each beaker features a pouring spout, and the beaker's tapered design allows for easy holding and stacking. Silk-screened graduations. Autoclavable.

50 ml Capacity 1 oz.	**54107**	**$2.95**
	12+	**$2.75**
100 ml Capacity 1 oz.	**54108**	**$3.35**
	12+	**$3.10**
250 ml Capacity 1 oz.	**54109**	**$3.90**
	12+	**$3.60**
500 ml Capacity 2 oz.	**54110**	**$7.10**
	6+	**$6.50**
1,000 ml Capacity 3 oz.	**54112**	**$9.75**
	4+	**$8.75**

Ⓜ Metric

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NALGENE®

Nalgene® Straight Wide-Mouth Jars

5321

White polypropylene jars with white polypropylene closures. Leakproof. Excellent chemical resistance. Autoclavable.

4 oz./125 ml			
2 oz.	C	53669	$4.50
		24+	$4.30
		48+	$4.05
8 oz./250 ml			
2 oz.	C	53670	$5.65
		36+	$4.85
16 oz./500 ml			
4 oz.	C	53671	$8.25
		24+	$6.95

Note: Completely disengage threads or remove closure before autoclaving.

Rubbermaid®

Rubbermaid® Measuring Cups

1906

Lightweight carb-x material. Dishwasher safe to 212°F. Complies with FDA regulations.

2-Qt./1.9 liters – grad. 4 oz./125 ml			
12 oz.	C	54033	$21.75
		6+	$19.25
4-Qt./3.8 liters – grad. 1 pint/0.5 liters			
1 lb.	C	54034	$23.75
		6+	$21.95

Polyethylene Utility Funnel

5325

5″ Top Diameter		
2 oz.	53637	$4.95
	12+	$4.25
8″ Top Diameter		
4 oz.	53638	
	12+	$13.95

Note: Funnel is not autoclavable.

NALGENE®

Nalgene® Wide-Mouth Bottles*

5324

For chemicals, specimens, and general use where autoclaving is required. Polypropylene with polypropylene screw closure. Leakproof. Autoclavable.

4 oz./125 ml			
1 oz.	C	53596	$3.15
		12+	$3.00
		36+	$2.80
8 oz./250 ml			
2 oz.	C	53597	$4.50
		12+	$4.25
		36+	$3.85
16 oz./500 ml			
3 oz.	C	53664	$7.10
		12+	$6.55
		36+	$5.95
32 oz./1,000 ml			
4 oz.	C	53665	$11.45
		12+	$10.45
		24+	$9.55

NALGENE®

Nalgene® Large Wide-Mouth Bottles*

5322

High-density polyethylene, polypropylene screw closures. Leakproof.

1/2 gallon/2,000 ml			
8 oz.	C	53662	$20.20
		6+	$18.55
		12+	$17.15
1 gallon/4,000 ml			
12 oz.	C	53663	$28.95
		6+	$26.50
		12+	$23.95

NALGENE®

Nalgene® Square Wide-Mouth Bottles*

5323

Wide-mouth square bottle is leakproof and made of high density polyethylene with polypropylene closure.

8 oz./250 ml			
2 oz.	C	53656	$5.10
		12+	$4.95
		36+	$4.40
16 oz./500 ml			
3 oz.	C	53657	$7.10
		12+	$6.55
		36+	$5.95
32 oz./1,000 ml			
4 oz.	C	53658	$10.70
		12+	$9.45
		36+	$8.75

***Note:** Completely disengage threads or remove closure before autoclaving.

BOD Bottle

5334

Standard clear glass BOD bottle features tapered ground glass stopper to prevent air entrapment, flared lip for water seal, and white marking area for identifying sample.

New! BOD Bottle, 60ml		
4 oz.	53829	$8.75
	36+	$8.10
BOD Bottle, 300ml		
9 oz.	53868	$20.50
	12+	$19.95
	24+	$18.95

EPA Sample Pre-Cleaned Widemouth Bottles

5333

Cleaned to Protocol A, certified to Level 2. Clear glass with 0.030″ Teflon® liner.

8 oz./250 ml squat, Case of 12			
6 lbs.	R	54008	$39.50
16 oz./500 ml squat, Case of 12			
9 lbs.	R	54009	$45.90
30.5 oz./950 ml tall, Case of 12			
14 lbs.	R	54037	$53.90

EPA Sample Pre-Cleaned 40 ml VOA Vials

5331

Cleaned to Protocol B. Certified to Level 2 or 1. Borosilicate glass; 0.125″ Teflon®/silicon septa; open top. Suitable for sampling according to EPA 40 CFR 136 and CFR 141. Tray of 72 Tall Vials – 28 mm x 95 mm.

Certified Level 2 Cleaned to EPA Protocol			
5 lbs.	R	54004	$86.00
Certified Level 1			
5 lbs.	R	54005	$71.00

C Combination English and Metric R Non-returnable if opened

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Plastic Graduated Cylinder Set
7269

A convenient classroom set of 7 graduated polypropylene cylinders in sizes 10 ml, 25 ml, 50 ml, 100 ml, 250 ml, 500 ml, and 1000 ml.

Graduated Cylinder Set 2 lbs.		53682	$24.95
		6+	$22.95

NALGENE®

Nalgene® Economy Graduated Cylinders
4219

Made of polymethylpentene, these transparent cylinders feature large, molded-in graduations, ribbed bases for reinforcement and stability, and generous pour spouts. Offer excellent chemical, heat, and impact resistance. Non-wetting; calibrated TC/TD at 20°C. GLOBE approved.

100ml, grad. – 1 ml (not graduated the first 10 ml) 2 oz.		53641	$11.25
		12+	$9.95
500ml, grad. – 5 ml 5 oz.		53629	$21.25
		8+	$18.50

NALGENE®

Graduated Cylinders
5319

Graduations are molded into cylinder. Autoclavable. Sterilized by standard chemical methods. Meets Federal Specs NNN-C-940-C (Class B). Calibrated to TC/TD at 20°C.

50 ml, grad. - 1 ml 1 oz.	M	53642	$22.75
		12+	$20.25
100 ml, grad. - 1 ml 2 oz.	M	53643	$24.25
		12+	$21.50
250 ml, grad. - 2 ml 4 oz.	M	53644	$31.25
500 ml, grad. - 5 ml 7 oz.	M	53645	$39.50
1,000 ml, grad. - 10 ml 11 oz.	M	53646	$50.25

NALGENE®

Nalgene® Acid Bottle
6453

Polyethylene bottle with polypropylene snap cap. Dispenses one drop at a time.

0.48 oz./15 ml Capacity 1 oz.		53676	$3.75
		24+	$3.50
		72+	$3.20

NALGENE®

Nalgene® Rectangular Carboy with Spigot
5337

Constructed of leakproof, high density homopolymer polyethylene, Nalgene®'s tough carboy withstands high temperatures encountered when sterilizing with an autoclave. Molded graduations indicate amount used. Graduated to 1/4 gallon and 1/5 liter. Homopolymer polypropylene screw closure and spigot. Five-gallon capacity.

Nalgene Rectangular Carboy with Spigot 5 lbs.	C	53673	$166.50
		2+	$154.75

NALGENE®

Nalgene® Wide-Mouth Wash Bottles
5312

Low-density polyethylene bottle with polypropylene screw closure and stem. Polyallomer draw tube. Wide-mouth design for easy filling. Through-the-top closure and stem molded in one piece. Leakproof. Tip can be cut back to increase flow. Large capacities.

16 oz./500 ml Capacity	3 oz.	53680	$7.40
		12+	$6.90
		24+	$6.35
32 oz./1,000 ml Capacity	4 oz.	53681	$8.95
		12+	$8.60
		24+	$7.70

NALGENE®

Nalgene® Wide-Mouth Unitary™ Wash Bottles
5313

Bottle and tubulation molded in one piece. Closure is leak-proof. No messy delivery tube. Contents can be dispensed without tipping or shaking. Dispensing tip can be cut back to increase flow. Low-density polyethylene bottle/tubulation with polypropylene screw closure.

8 oz./250 ml Capacity	2 oz.	53605	$6.75
		12+	$6.25
		24+	$5.95
16 oz./500 ml Capacity	3 oz.	53606	$8.40
		12+	$7.95
		24+	$7.35
32 oz./1,000 ml Capacity	4 oz.	53607	$12.25
		12+	$11.50
		24+	$10.50

NALGENE®

Nalgene® Jerrican
5335

For dispensing and storage.

High density polyethylene, polypropylene closures. Wide stance and low center of gravity for greater stability. Molded graduations in liters and gallons. Strap fastened closure can't be lost. Recessed bottom. Leakproof.

5 Gallon 4 lbs.	C	53675	$86.25

M Metric
C Combination English and Metric

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6-1/4″ Pocket Case Thermometer
5354

°Fahrenheit

Pocket thermometer with plastic carrying case and pocket clip. Temperature readings in degrees Fahrenheit. Graduated in 2° increments. 6-1/4″ Long.

-30°F to +120°F, red liquid	E	1 oz.	**89136**	**$11.50**
			10+	**$10.95**
			20+	**$9.95**

6-1/2″ Pocket Case Thermometer
5353

°Fahrenheit

Glass stem thermometer with permanently fused graduations. Screws securely into protective metal case. Pocket clip. 6-1/2″ Long.

-30°F to +120°F in 2° grads., red liquid	E	2 oz.	**89120**	**$14.50**
			10+	**$12.95**
			20+	**$11.25**

6″ Enviro-Safe® Pocket Case Thermometers
5357

°Fahrenheit or °Celsius

This aluminum-cased thermometer contains an environmentally safe, citrus-based, green liquid providing safe usage in a variety of applications. Glass tube has permanently fused markings. Screws securely into aluminum tubing when not in use. 6″ Long.

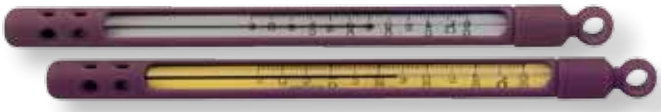
0°F to 220°F in 2° grads.	E	1 oz.	**89324**	**$12.25**
			10+	**$11.25**
			20+	**$10.25**
-10°C to 110°C in 1° grads.	M	1 oz.	**89323**	**$12.25**
			10+	**$11.25**
			20+	**$10.25**

6-3/4″ Metal Armor Case Pocket Thermometers
5358

°Fahrenheit or °Celsius

Stem and bulb are partially encased in metal. Perforations allow air or liquid to reach bulb for accurate readings. 6-3/4″ Long.

Red Liquid, -30°C to +50°C in 1° grads.	M	2 oz.	**89480**	**$14.50**
			10+	**$12.95**
			20+	**$11.25**
Green Liquid, 20°F to 120°F in 1° grads.	E	1 oz.	**89131**	**$11.75**
			10+	**$11.25**
			20+	**$10.25**



6″ Enviro-Safe® "Easy Read" Armor Case Thermometers
5356

°Fahrenheit or °Celsius

These precision thermometers are filled with an environmentally safe, citrus-based liquid, safe to use in any situation. Features a protective plastic jacket with window opening and perforations. Available with black lettering on white back glass with green liquid or black lettering on yellow back glass with black liquid. Read vertically. 6″ Long.

Green Liquid

0°F to 220°F in 2° grads.				
1 oz.	E		**77149**	**$11.95**
			10+	**$11.25**
			20+	**$10.25**
-5°C to 50°C in 0.5° grads.				
1 oz.	M		**77141**	**$11.95**
			10+	**$11.25**
			20+	**$10.25**

Black Liquid

0°F to 200°F in 2° grads.				
1 oz.	E		**89110**	**$12.25**
			10+	**$11.25**
			20+	**$10.25**
-5°C to 50°C in 0.5° grads.				
1 oz.	M		**89108**	**$12.25**
			10+	**$11.25**
			20+	**$10.25**

6″ Enviro-Safe® Armor Case Pocket Thermometers
5360

°Fahrenheit or °Celsius

6″ Case thermometer is filled with an environmentally safe, citrus-based liquid, making it safe for usage in a variety of situations. Stem and bulb are partially encased in aluminum. Perforations allow air or liquid to reach bulb for accurate readings.

0°F to 220°F in 2° grads.	E	1 oz.	**89319**	**$11.95**
			10+	**$10.95**
			20+	**$9.95**
-10°C to 110°C in 1° grads.	M	1 oz.	**89318**	**$11.95**
			10+	**$10.95**
			20+	**$9.95**
-5°C to 50°C in 0.5° grads.	M	2 oz.	**89257**	**$14.95**
			10+	**$13.95**
			20+	**$12.95**

12″ Spirit-Filled Lab Thermometer
8225

2° Graduations

Red liquid-filled thermometer has markings that are permanently fused to the glass for lifetime readability. Meets all SAMA (Society of American Manufacturers Association) specs. Maximum stem diameter 8 mm. 12″ Long.

-40°F to 120°F, 2° Graduations	E	1 oz.	**89023**	**$7.65**
			10+	**$7.10**
			20+	**$6.25**
-20°C to 110°C, 2° Graduations	M	1 oz.	**89031**	**$7.65**
			10+	**$7.10**
			20+	**$6.25**

E English
M Metric

Due to the growing concerns and continually increasing legislation concerning mercury and in an attempt to reduce mercury in our environment, Forestry Suppliers, Inc. no longer offers mercury thermometers for sale, but we still have a full line of non mercury thermometers from which to choose.

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Reotemp® Stainless Steel Bi-Metal Thermometers

5364

°Fahrenheit or °Celsius

Made in USA

Measures temperatures of solids, liquids or gases (asphalt, soil, water, air conditioning, etc.). Easy-to-read dial head. Stainless steel construction resists corrosion. External pointer reset. Strong, clear glass protects pointer and graduations. Sensor is a bi-metal helix-coil located in the bottom 2″ of the stem. Accurate to within ±1% of full scale. Protected against temperatures above or below the range of the thermometer (50% over-range or under-range allowable on instruments with ranges up to and including 160°F; 10% allowable for higher temperature ranges). Available with a 6″, 12″, or 24″ stem. 3″ Dial – pointed tip. Mounting nut with 1/2″ pipe threads. A case is included with the 24″ model.

Range	Grad.	Accuracy	Dial		Weight	6″	12″	24″	$
-40°F to +160°F	2°	±1%	3″	E	9 oz.	89230			$37.95
	2°	±1%	3″	E	10 oz.		89232		$43.95
	2°	±1%	3″	E	15 oz.			89234	$56.75
-10°C to +110°C	1°	±1%	3″	M	9 oz.	89238			$37.95
	1°	±1%	3″	M	11 oz.		89240		$43.95
50 to 550°F	5°	±1%	3″	E	1 lb.			89245	$79.00

Reotemp Compost Thermometers

5371

°Fahrenheit

Made in USA

Clear 3″ diameter dials are easy to read and hermetically sealed so they will never fog over. Sensitive bi-metal helix in bottom of pointed stem gives accurate reading to ±1% of scale. Rugged stainless steel construction. **Temperature range:** 0 to 200°F.

36″ stem, 1/4″ dia.	E	1 lb.	89112	$69.95
48″ stem, 5/16″ dia.	E	2 lbs.	89087	$129.00
36″ stem, 5/16″ dia.	E	2 lbs.	89089	$96.75

Reotemp® Backyard Compost Thermometer

7380

°Fahrenheit

The easy-to-read dial face features three temperature zone designations: Steady, Active, and Hot. 1.8″ dial case is hermetically sealed to prevent fogging. Can be left in the compost and withstands chemical and biological weathering. All welded stainless steel design.

Range: 0°F to 200°F. **Accuracy:** ±1% full scale. **Graduations:** 2°F. **Stem Length:** 20″.

Reotemp Backyard Compost Thermometer	E	4 oz.	89117	$22.95

Reotemp® Bi-Metal Asphalt Thermometer

7381

°Fahrenheit

All-stainless steel construction. Hermetically sealed.

Range: 50°F to 550°F. **Accuracy:** ±1% full scale. **Dial Size:** 3″. **Stem Length:** 24″.

Reotemp Bi-Metal Asphalt Thermometer	E	1 lb.	89245	$79.00

Taylor® Soil Thermometer

3048

°Fahrenheit / °Celsius, 4″ Stem

Reads from 20°F to 180°F and 0°C to 80°C. Graduated every 2°F, every 1°C. 2-1/2″ Dial. 4″ Stainless steel stem.

Taylor Soil Thermometer 1 oz.	C	89028	$10.95
		6+	$9.95
		12+	$8.75

Soil Thermometer

6464

8″ Stainless steel stem has bi-metal sensor in lower 2″. 0°F to 220°F and -18°C to +110°C. 2° graduations. Dial is 2″ dia. Last temperature marker. Pointer can be recalibrated/reset with 1/8″ wrench. Accurate to ±1% of scale.

Soil Thermometer 3 oz.	C	89027	$19.50
		6+	$16.95

Pocket Dial Thermometers

8104

°Fahrenheit or °Celsius, 5″ Stem

Bi-metal pocket dial thermometer provides 1% accuracy full scale. Adjustment nut allows for accurate calibration. Supplied with plastic pocket case with clip. 1″ Diameter dial. 5″ Stainless stem.

Grads	0°C to 150°C	-40°F to 160°F	0°F to 220°F		Weight	Each	6+
2°	89096			M	2 oz.	$12.25	$10.75
2°		89094	89092	E	2 oz.	$12.25	$10.75

E English M Metric C Combination English and Metric

Digital Thermometers on next page!

Bi-Metal Dial Thermometer

2360

°Fahrenheit / °Celsius or °Celsuis, 8″ Stem

Stainless steel stem, polycarbonate lens, external recalibration, and bold markings.

Combination Metric/English

Measuring Range: 25°F to 125°F and -5°C to 50°C. **Accuracy:** 1% full scale. **Graduations:** 1°F and 1°C. **Dial Size:** 2″. **Stem Length:** 8″.

Combination Bi-Metal Dial Thermometer 3 oz.	C	89067	$16.65
		10+	$13.95

Metric Bi-Metal Dial Thermometer

Measuring Range: -10°C to 110°C. **Accuracy:** 1% full scale. **Graduations:** 1°C. **Dial Size:** 2″. **Stem Length:** 8″.

Metric Bi-Metal Dial Thermometer 3 oz.	M	89082	$14.35
		10+	$11.85

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Traceable® Extreme Accuracy Standards Thermometer
7781

°Fahrenheit / °Celsius

High-precision thermometer provides exact readings in °F or °C for critical measurements, quality control checks, and routine measurements. Displays minimum/maximum and current temperatures along with the exact time and date when the minimum/maximum temperature occurred. Visual and audio alarms alert you when temperature rises above or falls below high and low set points. Includes Traceable® certificate, stainless steel probe, and two AAA batteries.

Range: -58°F to 158°F (-50°C to 70°C). **Accuracy:** ±0.05°C when within ±2°C of the tested standard points of 0.00°C, 25.00°C, and 37.00°C. **Resolution:** 0.01°. **Probe Length:** Stem, 6-1/4″; Overall, 9″. **Cable Length:** 5′.

Traceable Extreme Accuracy Standards Thermometer	C	8 oz.	**89095**	**$105.25**

Max/Min Digital Thermometer
4014

°Fahrenheit / °Celsius

This water-resistant (IP65) thermometer is °F/°C switchable and features a max/min function as well as auto power off after 10 minutes. Stainless steel probe. Includes protective probe cover with clip.

Range: 5″ Probe, -50°C to 200°C (-58°F to 392°F); 8″ Probe, -50°C to 300°C (-58°F to 572°F). **Accuracy:** ±1°C from -19.9°C to 119.9°C; ±2°C from -50°C to -20°C and 120°C to 199.9°C; ±3°C from 200°C to 300°C; ±1.8°F from -3.8°F to 247.8°F; ±3.6°F from -58°F to -4°F and 248°F to 391.8°F; ±5.4°F from 392°F to 572°F. **Power:** one LR44 battery (included). **Weight:** 2 oz. **Dimensions:** 5″ Probe, 0.75″ x 6.9″; 8″ Probe, 0.75″ x 11.25″.

Thermometer with 5″ Probe	C	3 oz.	**89102**	**$27.50**
			10+	**$24.25**
Thermometer with 8″ Probe	C	2 oz.	**89103**	**$27.95**

Traceable® Long-Stem Digital Thermometer
7224

°Fahrenheit / °Celsius

Features a 0.14″ diameter stainless steel probe that is resistant to most laboratory chemicals. The long stem allows you to easily make measurements while stirring solutions in deep vessels. Results are shown on a 0.25″H LCD display. Designed for all oven and incubators. Includes an individually serial-numbered Traceable® Certificate indicating traceability to standards provided by NIST, a protective sleeve, and battery.

Range: -58°F to 572°F (-50°C to 300°C). **Accuracy:** ±1°C. **Resolution:** 0.1° from -20° to 200° (1° outside this range). **Stem Length:** 11-3/8″. **Overall Length:** 14-3/8″.

Traceable Extra-Long-Stem Wide-Range Thermometer	C	3 oz.	**89098**	**$31.75**

Digital Pen Thermometer
8100

Pen shaped digital thermometer measures -50°C to +150°C and -58°F to +302°F in 0.1° divisions with an accuracy to 0.5°C and 1°F. Other features include an 8″ rustproof stainless steel probe, C/F and on/off switches, auto power off, and a probe cover clip. **Weight:** 3 oz.

Digital Pen Thermometer	C	2 oz.	**89083**	**$23.25**
			10+	**$21.25**

HOBO Pendant Data Loggers
page 498

Taylor® Digital Max/Min Pocket Thermometer
5367

°Fahrenheit / °Celsius

This waterproof digital thermometer displays a broad range of high and low temperatures from -40°F to +500°F with the Celsius equivalent (-40°C to 260°C) available at the flick of a switch in addition to max/min and hold functions. An update selection button allows fast (one second) or regular (10 second) temperature updates. The thermometer also features a step-down probe and Safe-T guard anti-microbial housing. Reads in 0.1°F/0.1°C. Recalibratable. Powered by one 1.5V watch battery (included). 4.75″ Probe.

Taylor Digital Max/Min Pocket Thermometer	C	3 oz.	**89118**	**$26.25**
			6+	**$23.50**

C Combination English and Metric

Taylor® Switchable Digital Pocket Thermometer
5366

°Fahrenheit / °Celsius

Featuring a switchable display, this economical digital thermometer provides a fast response and easy, accurate readings in either Fahrenheit or Celsius. Display reads to 0.1°F/°C and updates every one second. Other features include a 4.75″ stainless steel stem and flattened profile to prevent rolling.

Power: one 1.5V watch battery (two included). **Temperature range:** -58°F to +500°F/-50°C to +260°C.

Taylor Switchable Digital Pocket Thermometer	C	2 oz.	**89078**	**$17.95**
			6+	**$16.25**

Cal-Temp Quick-Reading Calibrateable Digital Thermometer
8403

°Fahrenheit / °Celsius

Features patented Self-Set™ Calibration and Quick Tip™ Rapid Response for fast readings in either °F or °C. Other features include maximum memory, data hold, and automatic shutoff after 10 minutes. Submersible and waterproof, the thermometer features a stainless steel body and a 5″ probe. NSF® certified, CE Mark certified, and RoHS compliant. Batteries and probe cover with pocket clip included.

Temperature Range: -40°F to 450°F (-40°C to 232°C). **Dimensions:** 1.4″H x 6″L.

Cal-Temp Quick-Reading Calibrateable Digital Thermometer	C	2 oz.	**89158**	**$25.50**
			6+	**$24.25**

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OAKTON INSTRUMENTS

Oakton® Acorn Temp 5 Digital Temperature Meter

6465

°Fahrenheit / °Celsius — 3 Manufacturer's Warranty 3 Year

This compact thermistor thermometer can be calibrated to a work standard by the user. Ideal for use in lab and food applications where precise liquid and semi-solid temperatures are needed. Thermometer can provide readings in °F and °C, has a Hold button, and features Minimum and Maximum Temperature Recall. Simply press the Hold button with the Minimum or Maximum button to instantly get updates on minimum and maximum readings. Probe, protective rubber boot, instructions, and batteries included. 3-year manufacturer's warranty.

Oakton Acorn Temp 5 Digital Temperature Meter	C	1 lb.	**76090**	**$214.95**
AAA cell, pack of 4		2 oz.	**02362**	**$3.25**

Reotemp® Digital TM99-A Thermometer

5373

°Fahrenheit / °Celsius — 5 Manufacturer's Warranty 5 Year

Gives fast, accurate readings of surface temperatures, liquids and gases. Displays temperature in Fahrenheit or Celsius. Includes probe and carrying case with handle. Five-year limited warranty from the manufacturer.

Reotemp Digital TM99-A Thermometer	C	1 lb.	**89326**	**$199.00**
AAA cell, pack of 4		2 oz.	**02362**	**$3.25**

New! Digi-Sense™ Thermocouple Thermometer

3753

Single Type K/J Input

Provides accurate and reliable temperature measurement in an economic and compact design. Features include Min/Max/Avg, Hold, °F/°C or Kelvin (K) selectable units, relative time stamp on Min/Max/Avg, electronic off set function and auto power-off to save on battery power. Meters accept both type K or J thermocouple probes with a miniconnector. Plus the NIST-traceable precalibration means you get reliable measurements right out of the box, saving you time and money! Features a single type K or J input and unique side-button controls for easy one-handed operation. Includes Type K bead wire temperature probe (one for each input), three AAA batteries, and NIST-traceable calibration report with data supplied by InnoCal.

Digi-Sense Thermocouple Thermometer, Single Type K/J Input		1 lb.	**76476**	**$89.00**

Probes for Digi-Sense® Type K Thermometer

3753

For specific applications. A probe is required for use with the thermometer when measuring temperatures. Each probe has a coiled cord which extends approximately 5′. The 36″L probe is ideal for measuring temperatures in compost.

Type K General Purpose Probe, 10-7/16″L	3 oz.	**76471**	**$47.50**
Type K Piercing Probe, 9-1/2″L	3 oz.	**76472**	**$55.50**
Type K Heavy Duty Probe/ Compost Probe, 36″L	10 oz.	**76478**	**$102.95**

		Oakton® Acorn Temp 5	Reotemp® TM99-A	DigiSense Type K
Range		-40°F to 257°F (-40°C to 125°C)	-40°F to +302°F/-40°C to +150°C	Type K, -328°F to +2,501°F (-200°C to +1,372°C); Type J, -346°F to +2,012°F (-210°C to +1100°C)
Resolution		0.1°F (0.1°C)	0.1°	
Accuracy		0.4°F (0.2°C)	0.2°F or 0.1°C	Temperature above -148°F (-100°C), ±[0.5% reading + 1.8°F(1°C)]; Temperature below -148°F (-100°C), ±[0.5% reading + 3.6°F(2°C)]
Operating Temperature		0°C to 50°C	0°F to 120°F	
Response Time			60 sec.	
Power	Source	4 AAA	2 AAA (included)	3 AAA batteries (included)
	Life	200 hrs.	200 hrs.	
Low Battery Indication		yes	yes	yes
Dimensions	Meter	2.7″W x 1.3″H x 5.5″L	2″W x 5″L x 2″H	2-1/2″W x 6-3/8″L x 1-1/8″H
	Probe	3.31″L x 1/8″ dia., SS 304 immersion probe with 0.625″ diameter handle and 3′L cable with strain relief		
Temperature Sensor		thermistor	thermistor	
Digital Display		single line LCD	LED four-digit 0.3″ display	

C Combination English and Metric

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EXTECH INSTRUMENTS

Extech® Dual Laser IR Thermometer

3000

Designed for accurate target identification, this infrared thermometer features dual lasers that converge to a 1″ target spot. The thermometer's 0.15 second response time allows for quick checks of multiple spots in a process or for determination of spikes in temperature. The Max Hold function indicates and holds the peak temperature for easy identification of hot spots. Adjustable High/Low set points with audible alarms alert you when the temperature exceeds programmed set points. The adjustable emissivity increases measurement accuracy for various surfaces. The thermometer also features a lock function for continuous readings, white backlit dual LCD display, and rugged double-molded housing. Includes pouch case and 9V battery. Three-year warranty from the manufacturer.

Laser Convergence Distance: 30″ (76.2cm). **Range:** -58°F to 1,832°F (-50°C to 1,000°C). **Repeatability:** ±0.5% or 1.8°F/1°C. **Basic Accuracy:** ±(1% of rdg + 2°F/1°C). **Maximum Resolution:** 0.1°F/°C. **Emissivity:** 0.10 to 1.00 adjustable. **Field of View (Distance to Target):** 30:1. **Dimensions:** 5.7″ x 4″ x 1.6″. **Weight:** 5.7 oz.

Extech Dual Laser IR Thermometer without NIST Certificate
14 oz. C **89453** **$199.95**

Extech Dual Laser IR Thermometer with NIST Certificate
15 oz. C **89434** **$396.25**

9V Alkaline Battery, single
3 oz. **02179** **$3.20**

EXTECH INSTRUMENTS

Extech® Wide Range IR Thermometer

8091

This wide range, non-contact infrared thermometer measures temperatures from -58°F to 1832°F! It has a built-in laser pointer which identifies the target area, plus the high 50 to 1 distance to target ratio measures smaller surface areas at greater distances. Other features include high and low alarms; adjustable emissivity that increases measurement accuracy for different surfaces; adjustable High/Low setpoints with audible alarm alerts; Min/Max/Avg plus differential between Max - Min; backlit display; automatic Data Hold when trigger released; and auto power off. Complete with 9V battery and hard carrying case.

Range: -58 to 1832°F (-50 to 1000°C). **Accuracy:** ±2% of rdg +4°F/ 2°C. **Max. Resolution:** 0.1°F/°C. **Emissivity:** Adjustable. **Field of View (Distance to Target):** 50:1. **Operating Range:** 32°F to 122°F. **Temperature Display:** °C or °F selectable. **Power:** 9V battery. **Dimensions:** 3.9″ x 2.2″ x 9″. **Weight:** 10.2 oz.

Wide Range Thermometer
2 lbs. C **89473** **$299.99**

EXTECH INSTRUMENTS

Extech® High Temperature IR Thermometer

8090

Measures surface temperature up to 1400°F (760°C)! The high 16 to 1 distance to target ratio allows you to measure smaller surface areas at greater distances. Featuers include adjustable emissivity from 0.1 to 1.00 to increase measurement accuracy for different surfaces; adjustable High/Low setpoints with audible alarm alerts when temperature exceeds the programmed setpoints; auto power off; Data Hold, Min/Max/Avg, plus differential between Max - Min; a built-in laser pointer which identifies target area; and a backlit LCD display. Complete with 9V battery and hard carrying case.

Measuring Range: -58°F to 1400°F (-50°F to 760°C). **Accuracy:** ±2%+2°<932°F (500°C); ±2.5%+5°>932°F (500°C). **Max. Resolution:** 0.1°F/°C. **Emissivity:** 0.1 to 1.00 Adjustable. **Field of View (Distance to Target):** 16:1. **Operating Range:** 32°F to 122°F. **Temperature Display:** °C or °F selectable. **Power:** 9V battery. **Dimensions:** 3.9″ x 2.2″ x 9″ (100 x 56 x 230 mm). **Weight:** 10.2 oz.

High Temperature IR Thermometer
2 lbs. C **89472** **$179.99**

Extech® Mini IR Thermometers

8089

These non-contact infrared thermometers have built-in laser pointers to identify the target area. Other features include a backlit display, automatic data hold when trigger is released, and auto power off. The Mini IR features a fixed 0.95 emissivity that covers 90% of surface applications. The Wide Range Mini IR has audible and visible overrange indicators. Complete with 9V battery and carrying case.

Mini IR Thermometer

Range: -4°F to +500°F (-20°C to +260°C). **Accuracy:** ±3% of reading or ±6°F/±3°C (whichever is greater). Max. **Resolution:** 1°F/°C. **Response Time:** 1 sec. **Emissivity:** 0.95 fixed. **Field of View (Distance to Target):** 6:1. **Operating Range:** 32°F to 122°F. **Temperature Display:** °C or °F selectable. **Power:** 9V battery. **Dimensions:** 3.2″ x 1.7″ x 6.7″. **Weight:** 4.9 oz.

Mini IR Thermometer
10 oz. C **89470** **$79.99**

Wide Range Mini IR Thermometer

Range: -58°F to +1,200°F (-50°C to +650°C). **Accuracy:** ±2% of reading or ±4°F/±2°C (whichever is greater). **Repeatability:** ±0.5% of reading or ±1.8°F (1°C). **Maximum Resolution:** 0.1° <999.9°; 1° >1,000°. **Response Time:** 1 sec. **Emissivity:** 0.10 to 1.00 (adjustable). **Field of View (Distance to Target):** 12:1. **Operating Range:** 32°F to 122°F. **Temperature Display:** °C or °F selectable. **Power:** 9V battery. **Dimensions:** 3.2″ x 1.6″ x 6.3″. **Weight:** 6.4 oz.

Wide Range Mini IR Thermometer
12 oz. C **89471** **$99.99**

Raytek A Fluke Company

Raytek® Raynger® MT4 MiniTemp Hand-held Infrared Thermometer

6460

°Fahrenheit / °Celsius

Fast, easy, and safe non-contact temperature measurement at an affordable price! Uses infrared technology to measure the surface temperature of materials without making contact with them. Point, shoot, and read the temperature on the thermometer's large backlit LCD display. Current temperature is displayed for 7 seconds after the trigger is released. Also features Class II laser sighting.

Range: -18°C to 400°C (0°F to 750°F). **Accuracy:** (assumes ambient operating temperature of 23°C [73°F]) For targets at -1°C to 275°C (30°F to 500°F), ±2% of reading or ±2°C (±3.5°F), whichever is greater; for targets at -18°C to -1°C (0°F to 30°F), ±3°C (±5°F). **Repeatability:** ±2% of reading or ±2°C (±3° F), whichever is greater. **Response time:** 500 mSec, 95% of response. **Emissivity:** pre-set to 0.95. **Distance to spot (D:S):** 8:1. **Ambient operating range:** 0°C to 50°C (32°F to 120°F). **Temperature display:** °C or °F selectable. **Power:** 9V alkaline or NiCd battery (included). **Dimensions:** 6″ x 4″ x 1.5″. **Weight:** 0.5 lb.

Raytek Raynger Model MT4 with laser sighting
9 oz. C **89409** **$79.25**

9V Alkaline Battery, single
3 oz. **02179** **$3.20**

C Combination English and Metric

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Infrared Thermometer
7229

°Fahrenheit / °Celsius

A bright laser allows for easy aiming, and results are shown on the backlit amber LCD display in either °F or °C. The thermometer measures maximum temperature during scanning and features an auto off function.

Range: -76°F to 932°F (-60°C to 500°C). **Accuracy:** ±2% of reading. **Resolution:** 0.1°. **Distance to Spot Size Ratio:** 12:1. **Emissivity Preset:** 0.95. **Response Time:** 1 second. **Operating Range:** 32°F to 122°F (0°C to 50°C). **Power:** 2 AAA batteries (included). **Dimensions:** 3˝ x 6˝ x 1.5˝. **Weight:** 7 oz.

Infrared Thermometer	C	1 lb.	**89452**	**$60.00**

5 Manufacturer's Warranty 5 Year

Sper Scientific IR Thermometer
8702

°Fahrenheit / °Celsius

Obtain instant temperature readings with this infrared thermometer! Simply press the trigger and aim the laser at the target. Temperature is displayed on the backlit LCD in either °C or °F and is automatically held for six seconds after the trigger is released. Features a rugged ergonomic design, a 12:1 distance to spot ratio (D:S), and auto power off. Battery and soft holster with belt loop included. Five year manufacturer's warranty.

Range: -25°F to 999°F (-32°C to 535°C). **Resolution:** 0.1°. **Accuracy:** ±5°F (±3°C) from -25°F to -4°F (-32°C to -20°C); ±3°F (±2°C) from -4°F to 212°F (-20°C to 100°C); ±2% from 212°F to 999°F (100°C to 535°C). **Emissivity:** 0.95 fixed. **Weight:** 8 oz. including battery. **Dimensions:** 6-3/4˝ x 4˝ x 1-5/8˝.

Infrared Thermometer	C	12 oz.	**89415**	**$81.25**

5 Manufacturer's Warranty 5 Year

Sper Scientific Infrared Thermistor Pen
2780

One end features a non-contact infrared thermometer that displays surface temperature on a backlit LCD within one second. The other end is a stainless steel probe for penetration temperature measurements. The thermocouple probe features min-max and hold functions, rotates out and locks at 90° and 180°. Two button cell batteries provide 35 hours of continuous infrared, and two additional batteries power the thermocouple thermometer. Foam-lined metal case and batteries included. Manufacturer's five-year warranty.

Infrared - Range: -28°F to 428°F (-33°C to 220°C); **Resolution:** 0.1°, above 200°C 1.0°; **Accuracy:** ±2% rdg or 2°C, whichever is greater. **Thermistor - Range:** -58°F to 302°F (-50°C to 150°C); **Resolution:** 0.1°; **Accuracy:** ±1.5% rdg. **Dimensions:** 7˝ x 3/4˝.

Sper Scientific Infrared Thermistor Pen	C	7 oz.	**89645**	**$73.95**

Oakton® Mini-IR Thermometer
2603

°Fahrenheit / °Celsius

Use this pocket-size thermometer to obtain the surface temperature of liquids, solids, or semi-solids in less than one second. Simply point the thermometer at the sample and take the reading – without ever touching the sample's surface! The thermometer features a minimum/maximum memory reading function, hold function, switchable °F/°C display, soft touch keypad, adjustable emissivity, and low battery indicator. Wrist strap, flip-open stand, and metal carrying case included.

Range: -27°F to 428°F (-33°C to 220°C). **Resolution:** 0.1°F (0.1°C). **Accuracy:** ±2% of reading or 3.6°F (±2% of reading or 2.0°C). **Emissivity:** adjustable from 0.1 to 1, factory default is 0.95. **Response time:** less than one second for 95% of reading. **Power:** one 3V CR2032 battery (included). **Battery life:** 40 continuous hours. **Dimensions:** 1-1/2˝W x 2-1/2˝H x 1/2˝D.

Oakton Mini-IR Thermometer	C	4 oz.	**89642**	**$34.95**

Extech® Pocket IR Thermometer
2362

°Fahrenheit / °Celsius

This pocket size infrared thermometer measures the surface temperature of objects without touching them. It's ideal for measuring hot spots in electrical panels and equipment as well as other materials which are difficult to reach or unsafe to touch. A built-in laser pointer improves aim, and in-process temperature measurements are provided. Other features include measurements in °F or °C, a 6:1 field of view (at 6˝ distance measure 1˝ target), data hold, max hold, and visual overrange indicator.

Range: -4°F to 518°F (-20°C to 270°C). **Accuracy:** ±2.5% of reading +3°F (2°C). **Resolution:** 0.1°F/°C. **Emissivity:** 0.10 to 1.0, adjustable. **Power:** 2 AAA batteries (included). **Dimensions:** 3.7˝ x 2˝ x 1˝.

Pocket IR Thermometer	C	6 oz.	**89448**	**$59.99**

Compact Infrared Thermometer
8602

°Fahrenheit / °Celsius

Small enough to fit in your pocket, this infrared thermometer provides temperature readings in either °F or °C. Housed in a metal alloy case, the thermometer features an LCD display, low battery indicator, and automatic power off after 15 seconds.

Range: -27°F to 428°F (-33°C to 220°C). **Accuracy:** ±2% of reading or ±2°C. **Resolution:** 0.1°. **Distance to Spot Size Ratio:** 1:1. **Emissivity Preset:** 0.95. **Response Time:** 1 second. **Operating Range:** 32°F to 122°F (0°C to 50°C). **Power:** 2 LR44 lithium batteries (included). **Dimensions:** 3.25˝ x 0.5˝. **Weight:** 2 oz. (with batteries).

Compact Infrared Thermometer	C	3 oz.	**89641**	**$31.95**

C Combination English and Metric

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Taylor® Orchard Thermometer
1817

°Fahrenheit

Guaranteed accurate to 1/2°. Reads 10°F to 100°F in 1° divisions. Indicates present temperature and lowest temperature reached since last setting. Tilt upward to reset. Stainless steel back. Red liquid. 13-1/4″ Long.

Taylor Orchard Thermometer			
5 oz.		**89065**	**$36.75**
		6+	**$34.25**

Min/Max Dial Type Thermometer
4154

°Fahrenheit / °Celsius

Registers high and low readings. Manual reset. **Range:** -20°F to 140°F (-30°C to 60°C). **Dimensions:** 8″ x 9″.

Min/Max Dial Type Thermometer			
4 oz.	C	**89126**	**$17.25**
		6+	**$15.50**

Thermometer Shelter
6495

Meets GLOBE Specifications

This shelter will house a U-tube minimum/maximum thermometer, a temperature dial, or a standard thermometer. Constructed of wood with louvered front and sides. The bottom panel has holes to increase natural ventilation. The shelter is painted white and includes a lock and key. Mounting holes are provided to install shelter on a wall with a northern exposure to prevent excessive heating by the sun. If installed on a post, a protective sun shade should be used. Meets GLOBE specifications. **Inside dimensions:** 9″W x 6″D x 17-3/4″H.

Thermometer Shelter	12 lbs.	**89129**	**$145.00**

All-Weather Rain Gauge
page 490

Durac® Digital Max/Min Thermometer
7475

°Fahrenheit / °Celsius

Displays current, maximum, and minimum temperatures. Reset the maximum and minimum temperatures with the press of a button. The weatherproof design allows for use indoors or outdoors. Features keyhole mounting. Two AAA batteries included.

Range: 14°F to 122°F (-10°C to 50°C). **Resolution:** 0.1°. **Accuracy:** ±1.8°F (±1°C).

Durac Digital Max/Min Thermometer			
8 oz.	C	**89097**	**$36.95**
		6+	**$34.95**

C Combination English and Metric

Forestry Suppliers Digital Max/Min Thermometer
2102

Records the minimum and maximum temperatures for 7 days at a time! Other features include water-resistant housing, a cover for preserving the LCD display, low battery indicator, selectable °C or °F, dual channels with separate temperature readings for each probe, reset button, and auto-off display. GLOBE Program approved.

Measurement Range: -40°F to 120°F (-40°C to 50°C). **Accuracy:** ±1/8°F or ±1°C. **Sensors:** Two with 5′L sensor leads. **Power:** Two AA cell batteries (included).

Digital Max/Min Thermometer			
11 oz.		**89212**	**$35.50**
		6+	**$31.25**
AA cell Alkaline Batteries, pack of 4			
7 oz.		**02352**	**$3.25**

Taylor® Non-Mercury Maximum-Minimum
5432

°Fahrenheit / °Celsius

Measures highest and lowest temperatures reached in any period, as well as present temperature range. Resets with a push button. Filled with alcohol-based Permacolor. 10-1/2″L x 2-3/8″W.

-40°F to +120°F (-40°C to +50°C), grad. every 2°			
4 oz.	C	**89024**	**$31.50**
		10+	**$28.95**

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Non-Mercury Taylor® Sling Pocket Psychrometer
5443

°Fahrenheit

A self-contained pocket case and slide rule sling psychrometer. High-impact plastic. White on black scale markings. Red liquid (alcohol) filled. 6-7/8″ Long.

20°F to 120°F in 1° divisions, Red liquid	E	5 oz.	**88982**	**$75.50**
Replacement Wicks, Pack of 12		1 oz.	**88989**	**$10.95**

Bacharach Pocket-Size Sling Psychrometer with Built-in Scale
5446

°Fahrenheit or °Celsius

Automatic wick wetting from built-in water reservoir. Sensitive thermometers store in plastic handle. Storage handle has built-in slide rule scales for determining relative humidity. Pocket-sized, 7-1/2″L, 1″ diameter.

25°F to 120°F, graduated every 1°, Red Liquid	E	5 oz.	**89085**	**$91.25**
-5°C to +50°C, graduated every 1/2°, Red Liquid	M	5 oz.	**89053**	**$91.25**
Replacement Thermometer for 89085	E	1 oz.	**89086**	**$34.95**
Replacement Thermometer for 89053	M	1 oz.	**89056**	**$34.95**
Replacement Wicks, Pack of 12		1 oz.	**88989**	**$10.95**

Psychrometric Slide Rule
6474

Converts wet and dry bulb temperature into percent of relative humidity. Durable plastic, 7-1/4″L.

Scales: wet and dry bulb temps, 20°F to 100°F; relative humidity, 10% to 100%.

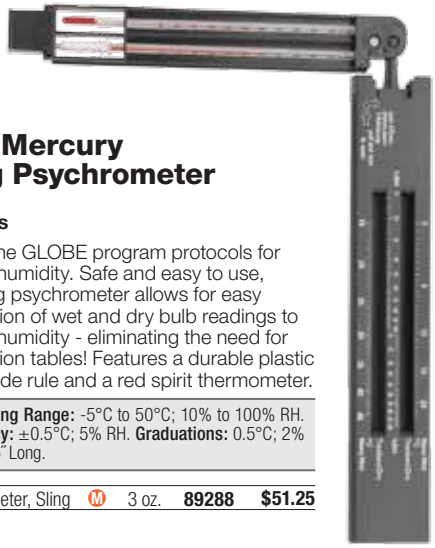
Psychrometric Slide Rule 1 oz.	E		**89197**	**$11.75**

Forestry Suppliers Non-Mercury Pocket Sling Psychrometer
8519

°Fahrenheit

Convenient, lightweight, and portable. Two replaceable laboratory type, liquid-filled, non-mercury thermometers mounted on a flanged back. A swivel handle and chain facilitate whirling. Protective carrying case with retaining flap. Slide rule included.

30°F to 110°F in 1° divisions	E	6 oz.	**89080**	**$56.25**
			5+	**$50.75**
Replacement Thermometer for 89080	E	1 oz.	**89081**	**$16.50**
Replacement Wicks, Pack of 12		1 oz.	**88989**	**$10.95**



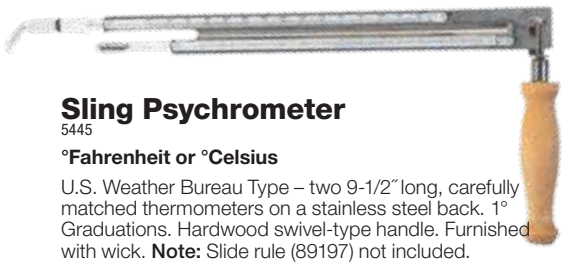
Non-Mercury Sling Psychrometer
2340

°Celsius

Meets the GLOBE program protocols for relative humidity. Safe and easy to use, this sling psychrometer allows for easy conversion of wet and dry bulb readings to relative humidity - eliminating the need for conversion tables! Features a durable plastic case, slide rule and a red spirit thermometer.

Measuring Range: -5°C to 50°C; 10% to 100% RH. **Accuracy:** ±0.5°C; 5% RH. **Graduations:** 0.5°C; 2% RH. 8.25″ Long.

Psychrometer, Sling	M	3 oz.	**89288**	**$51.25**



Sling Psychrometer
5445

°Fahrenheit or °Celsius

U.S. Weather Bureau Type – two 9-1/2″ long, carefully matched thermometers on a stainless steel back. 1° Graduations. Hardwood swivel-type handle. Furnished with wick. **Note:** Slide rule (89197) not included.

-20°F to +120°F, Red Liquid	E	5 oz.	**89194**	**$69.95**
Replacement Thermometer for 89194	E	1 oz.	**89291**	**$22.30**
-30°C to +50°C, Red Liquid	M	5 oz.	**89192**	**$69.95**
Replacement Thermometer for 89192	M	1 oz.	**89193**	**$22.30**

Student Psychrometer Kit
5447

°Celsius

Developed by teachers and scientists for students to learn first-hand about determining dew point and relative humidity. It may be used with any curriculum to grab students' interest. The kit includes a wet bulb wick, two dry bulb thermometers, and a Teacher's Guide with Psychrometric Tables.

Student Psychrometer Kit	M	2 oz.	**89076**	**$10.25**
			10+	**$9.75**
			20+	**$9.25**

Taylor® Mason's Hygrometer
5452

°Fahrenheit

Wet and dry bulb thermometers mounted on a plastic case. Relative humidity table included. Permacolor™-filled tubes.

Temperature Range: 0°F to 120°F. **Graduations:** every 2°. **Dimensions:** 10″ x 4″.

Taylor Mason's Hygrometer, Model 5525J1 7 oz.	E		**89077**	**$39.95**

E English M Metric

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See our full line of Flir® Thermal Imaging Cameras forestry-suppliers.com

FLIR

Flir® E Series Thermal Imaging Cameras

8584

These infrared cameras utilize MSX® (Multi-Spectral Dynamic Imaging) technology to ensure extraordinary image detail! MSX technology adds visible spectrum definition to images by detecting the edges of objects and incorporating that detail in the thermal images. Text is even clearly visible within an infrared image, allowing you to read labels or identifiers. Simple to operate, the on-board 640 x 480 digital camera features a focus-free lens, a 3″ color LCD, and easy button navigation to on-screen settings. You can view thermal, visual, and MSX images, all of which can be simultaneously stored for further analysis. Includes power supply/charger with four plugs, rechargeable battery, Flir Tools software, USB cable, and hard transport case. Two-year warranty on camera, five-year warranty on battery, and ten-year warranty on detector.

Accuracy: ±2% or 2°C. **Emissivity Correction:** Variable from 0.1 to 1.0. **Temperature Range:** -4°F to 482°F (-20°C to 250°C). **Battery Type:** Li-Ion. **Battery Life:** 4 hours. **Weight:** 1.27 lbs.

E4 Thermal Imaging Camera – Pixels: 4,800 (80 x 60). Thermal Sensitivity: <0.15°C. Measurement Modes: Spot (center) mode. 7 lbs.	R	89260	$995.00
E5 Thermal Imaging Camera – Pixels: 10,800 (120 x 90). Thermal Sensitivity: <0.10°C. Measurement Modes: Spot (center) and area box (min/max) modes. 6 lbs.	R	89261	$1495.00

Campbell Scientific® Duff Moisture Meter page 148

Kestrel® Weather Stations pages 504 and 505

Digital Max/Min Thermohygrometer

1555

°Fahrenheit / °Celsius

Pocket-sized meter displays relative humidity and temperature simultaneously, stores min./max. humidity and temperature readings, and switches easily between °F and °C. Large LCD screen with oversized digits. Belt clip, carrying pouch, and two watch-type batteries included.

Relative Humidity: range, 20 to 95% RH; resolution, 1% RH; accuracy, ±5% RH within 40 to 80% RH, else ±7% RH. **Temperature:** range, 32°F to 122°F (0°C to +50°C); resolution, 0.1°F (0.1°C); accuracy, ±2°F (±1°C) from 32°F to 104°F (0°C to 40°C), ±4°F (±2°C) from 104.1°F to 122°F (40.1°C to 50°C). **Battery life:** 4,000 hrs. continuous. **Dimensions (approx.):** 5-3/4″L x 1″W x 1-1/4″H.

Digital Max/Min Thermohygrometer	C	2 oz.	76255	$48.50
		3+		$44.95

OAKTON INSTRUMENTS

Oakton® Hygrometer/Thermometer

5453

°Fahrenheit / °Celsius

Monitor temperature and humidity conditions with one unit! Digital model uses a solid state temperature detector.

Temperature readout: °F or °C. **Range:** 20% to 100% RH, 0°F to 160°F/-18C° to +72°C. **Resolution:** 2% RH, 0.1°F or °C. **Accuracy:** ±4% RH, Full Scale, ±1.8°F/±1°C. **RH response:** 90% in 1 minute. **Power:** one AA 1.5-V battery (included). **Dimensions:** 1.1″D x 5″ diameter.

Oakton Hygrometer/Thermometer with Digital Temperature Display	C	1 lb.	76151	$164.50

DELMHORST INSTRUMENT CO. WHEN ACCURACY IS THE POINT.

Delmhorst® HT-3000 Thermo-Hygrometer

2777

Manufacturer's Warranty 1 Year

°Fahrenheit / °Celsius

Ideal for use by IAQ and mold remediation specialists, flooring professionals, restoration contractors, home inspectors, general contractors, and woodworkers! Use this precision thermo-hygrometer in conjunction with a moisture meter to determine air quality and detect the presence of moisture. The meter features selectable screen displays and provides temperature, relative humidity, dewpoint, and GPP (grains per pound) measurements. Other features include fast response time, data hold, and automatic power down. Carrying case included. One year manufacturer's warranty.

Range: Relative humidity, 0 to 100%; Temperature, -4°F to 158°F (-20°C to 70°C); Dew point, -40°F to 176°F (-40°C to 80°C); GPP, 0.55 GPP to 3,868 GPP. **Resolution:** Relative humidity, 0.1%; Temperature, 0.1°. **Accuracy:** Relative humidity, ±3%; Temperature, ±1.8°F (1°C). **Power:** one 9V alkaline battery. **Battery life:** approximately 55 hours of constant use (no backlight) or 23 hours (with backlight).

Delmhorst HT-3000 Thermo-Hygrometer	C	2 lbs.	79327	$328.00
9V Alkaline Battery, single		3 oz.	02179	$3.20

Psychro-Dyne Portable Battery-Operated Psychrometer

5454

°Fahrenheit

Manufactured to rigid U.S. Weather Bureau and Navy specifications for indicating wet and dry bulb temperatures for relative humidity and dew point determinations. Reads from 10°F to 120°F in 1° graduations. The Organic thermometer eliminates the danger that broken mercury thermometers pose around electrical or electronic equipment. Features a miniature fan which provides constant air motion over the 8-7/8″ thermometers - no whirling is required. Humidity is determined from included psychrometric tables. Each lightweight unit includes a high-impact case, pair of matched thermometers, magnetic fan motor, 2 oz. plastic water bottle, illuminating lamp, psychrometric slide rule, spare parts kit including wick and lamp, and manual. Three D-cell batteries (sold separately) last about 1,000 operations. Meets federal spec. GG-P-725B.

Psychrometric Tables: 10°F to 140°F for RH and Dewpoint in 1° graduations. **Accuracy:** ±1% of full scale. **Thermometers:** 10°F to 120°F (±0.3°F) in 1° graduations. **Accuracy:** ±0.3° over entire range. **Dimensions:** 10″ x 4-1/2″ x 2″.

Organic °F Psychrometer		3 lbs.	89406	$187.50
D cell Alkaline Battery, Single		6 oz.	02180	$2.45

R Cannot be sold internationally
C Combination English and Metric

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Extech® Psychrometer with Infrared Thermometer
2997

Manufacturer's Warranty 3 Year

This 3-in-1 meter combines the functionality of an infrared thermometer, a Type K thermometer, and a humidity meter. The infrared thermometer provides non-contact temperature measurements up to 932°F, and the Type K thermometer offers contact temperature measurements up to 2,501°F. The rugged meter features a heavy-duty double-molded housing, a large triple LCD backlit display, a USB port, and auto power off. Includes Windows® compatible software with USB cable, Type K bead wire temperature probe, built-in stand, hard carrying case, and 9V battery. Three-year warranty from the manufacturer.

Range: IR Thermometer, -58°F to 932°F (-50°C to 500°C); Type K Thermometer, -148°F to 2,501°F (-100°C to 1,372°C); Air Temperature, 14°F to 140°F (-10°C to 60°C); Relative Humidity, 0 to 100% RH; Dew Point, -90.4°F to 140°F (-68°C to 60°C); Wet Bulb, -6.88°F to 140°F (-21.6°C to 60°C). **Basic Accuracy:** IR Thermometer, ±2% or ±4°F/2°C; Type K Thermometer, ±(1% + 1°C); Air Temperature, ±(2% ±4°F/2°C); Relative Humidity, ±2% RH. **Distance to Target Ratio:** 30:1. **Dimensions:** 10″x 2.9″x 2″. **Weight:** 12.3 oz.

Extech Psychrometer with Infrared Thermometer	C	3 lbs.	**89220**	**$269.95**

Extech® Digital Psychrometer Kit
2998

Manufacturer's Warranty 1 Year

This versatile instrument simultaneously displays %RH and temperature along with dew point, wet bulb, or probe temperature. The instrument also calculates T1-T2 differential (air temperature minus external probe temperature) using the temperature probe and T2-dew point. Other features include switchable °F/°C temperature units, data hold to freeze the current reading on the display, max/min readings, and auto power off. The unique sensor cap design twists closed to ensure protection during storage. Kit includes digital psychrometer, 2 AAA batteries, temperature probe, 33% and 75% calibration bottles, and a carrying case. One-year warranty from the manufacturer.

Range: Humidity, 10% to 90% RH; Temperature (Internal), -4°F to 122°F (-20°C to 50°C); Temperature (External), -4°F to 158°F (-20°C to 70°C); Dew Point, -90.4°F to 122°F (-68.0°C to 49.9°C); Wet Bulb, -6.9°F to 122°F (-21.6°C to 49.9°C). **Maximum Resolution:** Humidity, 0.1% RH; Temperature (Internal and External), 0.1°. **Basic Accuracy:** Humidity, ±3% RH; Temperature (Internal and External), ±1°F or ±0.6°C. **Dimensions:** 7″x 1.9″x 1″. **Weight:** 3.3 oz.

Extech Digital Psychrometer Kit	C	2 lbs.	**89221**	**$139.25**

Extech® Hygro-Thermometer with Infrared Thermometer
2545

°Fahrenheit / °Celsius

This precision instrument displays ambient temperature as well as humidity or non-contact surface temperature simultaneously. The infrared thermometer features a built-in laser pointer for excellent aim and accuracy. Temperature can be displayed in °F or °C. Separate MAX and HOLD functions provide added versatility. Other features include a large backlit display, auto power off to conserve battery life, and low battery and overrange indicators. Built-in stand, protective holster, probe with 39″ coiled cable, 9V battery, and carrying case included.

Humidity: Range, 10% to 95%; Resolution, 0.1%; Accuracy, ±3.5%. **Infrared temperature:** Range, -58°F to 932°F (-50°C to 500°C); Resolution, 0.1°; Accuracy, ±2% or ±4°F (±2°C). **Air temperature:** Range, -4°F to 140°F (-20°C to 60°C); Resolution, 0.1°; Accuracy, ±3°F/°C. **Emissivity:** 0.95. **Field of view:** 8:1. **Dimensions:** 5.9″x 2.95″x 1.57″.

Hygro-Thermometer with Infrared Thermometer	C	1 lb.	**76011**	**$179.99**

Extech® Carbon Monoxide (CO) Meter
8586

Manufacturer's Warranty 1 Year

Easily check the carbon monoxide level in all environments up to 1,000ppm with this pocket size meter. Ideal for use in ambient air safety checks on residential appliances, home inspections, industrial environments where the accumulation of CO is possible, and HVAC service on furnaces and hot water heaters. The meter utilizes a stabilized electrochemical gas specific sensor and features one-button operation. An audible alarm sounds at 35ppm with continuous beeping above 200ppm. The memory stores 10 readings. Other features include max hold, data hold, backlit display, and auto power off. Comes complete with 9V battery, protective rubber holster, and carrying case. CE approved. One-year manufacturer's warranty.

Range: 0 to 1,000ppm. **Resolution:** 1ppm. **Accuracy:** 5% or ±10ppm. **Sensor Life:** 3 years (typical). **Power:** one 9V battery. **Dimensions:** 6.3″x 2.2″x 1.57″. **Weight:** 6.35 oz.

Extech Carbon Monoxide (CO) Meter		13 oz.	**23306**	**$249.99**

C Combination English and Metric

EXTECH INSTRUMENTS

Extech® Wireless Video Borescope/ Inspection Camera
8588

Ideal for use in home inspection, HVAC applications, and more!

This inspection tool captures video with date/time stamp using a mini waterproof camera. The 39″ flexible gooseneck's camera features two bright LED lamps with a dimmer to illuminate the viewed object. Video can be played back on the 3.5″ color TFT LCD wireless monitor or on any monitor with a video input jack. The detachable LCD monitor can be used for viewing at a remote location up to 32 feet away. Video and images can also be transferred to your PC using the included microSD card or USB cable and viewed using Windows® Multimedia Player. Comes complete with 4 AA batteries, microSD memory card with SD adapter, USB cable, extension tools (mirror, hook, magnet), video interconnect cable, AC adapter, magnetic base stand, and storage case.

Camera – Pixels: 712 x 486. **Transmission Range:** 32′ (10m) unobstructed view. **Viewing Direction:** Viewing angle 50°. **Viewing Distance:** 5.9″ to 9.8″. **Shaft Diameter:** 0.66″. **Working Length:** 39″. **Dimensions:** 7.3″x 5.7″x 1.6″. **Weight:** 18.7 oz. **Monitor – LCD Screen Type:** 3.5″ TFT. **Pixels:** 320 x 240. **Frame Rate:** 10, 15, 20, 25, 30 FPS. **Video Resolution:** 960 x 240 (avi format). **Image Resolution:** 640 x 480 (jpeg format). **Dimensions:** 3.9″x 2.7″ x 1″. **Operating/Charge Time:** 1.5 hours/3 hours. **Weight:** 4.9 oz.

Extech Video Borescope/Wireless Inspection Camera	5 lbs.	**22501**	**$299.99**

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Original EZ READ Rain Gauge
4772

This jumbo-size rain gauge features bright markings, a high visibility float, water magnification, and a DebrisGuard™ Funnel to prevent debris from entering. Easily mounts in ground or on fence. Rust-resistant bracket included. Measures 20.5″ Tall.

Original EZ READ Rain Gauge	E	5 oz.	**89062**	**$13.25**

Classic Jumbo EZ Read Rain Gauge
4771

Jumbo-size and brilliant colors make for easy reading up to 50 feet away! Specially calibrated to ensure accuracy, plus it is easy to install (mounting bracket included). Funnel is constructed to prevent debris from entering. Measures 26″ Tall.

Classic Jumbo EZ Read Rain Gauge	E	6 oz.	**89063**	**$10.50**

Taylor® See-Thru Rain Gauge
5478

Combination English/Metric

For nurserymen, gardeners, ranchers, farmers, and homeowners. Constructed of weather-resistant tenite butyrate plastic. Capacity is 5″ x 0.05″ (127mm x 1mm).

Taylor See-Thru Rain Gauge	C	6 oz.	**89068**	**$9.25**

Note: Do not freeze.

Tru-Chek® Direct-Reading Rain Gauge
5479

Combination English/Metric

One side is graduated from 0.01″ to 6″ while the other side ranges from 0.1 mm to 150 mm. This 13″ long gauge is constructed of heavy, weather-resistant plastic and features permanently marked graduations and a mounting bracket.

Tru-Chek Direct-Reading Rain Gauge	C	10 oz.	**89011**	**$9.95**
			12+	**$8.95**

E English
M Metric
C Combination English and Metric

Far View Rain and Sprinkler Gauge
5480

English

For lawn, garden, nursery, or general use. Capacity: 5″ with 0.1″ graduations. Magnifier funnel makes accumulation easy to read from a distance! Mounted on a 16″ sharpened steel frame. Push it into your lawn, garden, or field as a rain or sprinkler gauge. Also mounts on a post.

Far View Rain and Sprinkler Gauge	E	11 oz.	**88990**	**$12.50**
			12+	**$11.25**

All-Weather Rain Gauge
5477

English or Metric

Made to U.S. Weather Bureau specifications. Collects rain in top, funnels it to removable inner tube graduated in easy to read English or metric characters. Overflow chamber catches excess for later measurement. Mounting bracket and one-year rainfall record included.

11″ x 0.01″ Capacity	E	2 lbs.	**88991**	**$40.75**
			6+	**$37.25**
Replacement Inner Tube	E	4 oz.	**85702**	**$17.95**
27.9 cm x 2 mm Capacity	M	2 lbs.	**88994**	**$41.95**
			6+	**$38.25**
Replacement Inner Tube	M	4 oz.	**85703**	**$19.95**

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Evaporation Station
5485

Measures daily evaporation.

Built to be compatible with all standard National Weather Service evaporation measurements. This pan is normally installed on a wooden platform set on the ground in a grassy location. There are two commonly used procedures for making evaporation measurements. In both procedures a 10″D x 47-1/2″ID stainless steel pan is used to hold the water. The first procedure for measuring daily evaporation loss is to use a graduated hook gauge set on a still well to determine the level of the water's surface at each measurement. The second procedure is to use a still well with a fixed point, and each time a measurement is taken, refill the pan with a calibrated graduated cylinder having a surface area 1/100th that of the pan up to the level of the point. The amount of water added is the equivalent evaporation. Since the amount of evaporation is a function of temperature, humidity, wind, and other conditions, in order to relate the evaporation to current or expected conditions, the maximum and minimum temperature of the water and the amount of air passage are normally recorded along with the evaporation. Submersible/floating type minimum/maximum thermometers are available for recording these temperatures. Shipped motor freight.

Class A Evaporation pan: low carbon stainless steel, heliarc welded. 10″H x 47-1/2″ID. **Hook gauge:** brass construction, 0.002″ graduations. 7″L x 5-1/4″ Diameter. **Still well (Model 6826):** stainless steel with leveling screws. 9″H x 4″ diameter. **Still well with fixed point (Model 6825):** stainless steel. 9″H x 4″Diameter; height of point 7-1/2″. **Replacement graduate:** polycarbonate, graduated 0.01″/0.2 mm. **Submersible/floating thermometer (Stock #92576): Digital maximum/minimum thermometer** (**Range:** -58°F to 572°F. **Dimensions:** 11-1/4″L without floats; 13-1/2″L with floats.). **Totalizing anemometer (Model 2510):** three-beaded conical type with 4″ diameter cones. Six-digit counter with 0.1 mile or 0.1 km resolution. Aluminum construction with flange mount. 16″H x 12″ diameter.

Model 6821 Class A Evaporation Pan	F	59 lbs.	**92577**	**$890.00**
Model 6831 Hook Gauge, English calibration Brass construction, 0.002″ graduations. 7″L x 5-1/4″ Diameter.	E	15 oz.	**92578**	**$629.95**
Model 6826 Still Well – Stainless steel with leveling screws. 9″H x 4″ diameter.		14 lbs.	**92579**	**$160.00**
Model 6825 Still Well with fixed point Stainless steel. 9″H x 4″ Diameter; height of point 7-1/2″.		7 lbs.	**92580**	**$203.00**
Model 6833 Graduated Cylinder, English calibration	E	3 lbs.	**92581**	**$259.00**
Model 2510 Totalizing Anemometer – Three-beaded conical type with 4″ diameter cones. 6-digit counter with 0.1 mile or 0.1 km resolution. Aluminum construction with flange mount. 16″H x 12″ diameter. Includes 33′ of cable.	E	9 lbs.	**92517**	**$736.00**
Floating Digital Max-Min Thermometer	C	1 lb.	**92576**	**$295.00**

U.S. Weather Bureau Type Rain & Snow Gauge
5484

Combination English/Metric

For professionally accurate rainfall measurements. This all-aluminum gauge has a total capacity of 20″ of rainfall and is graduated in inches, 10ths, 100ths, cm, and mm. The upper portion of the funnel is cylindrical in shape and is turned to a sharp edge. Rainwater falling into the funnel is delivered into the anodized aluminum receiver. The ratio of the area of the orifice to the area of the receiver is 10:1, so that 1″ of rainfall delivers 10″ of water to the receiver and can be read to 0.01″. The capacity of the receiver is 2″ of rainfall. Any excess overflows into the outer chamber where it can be measured after the quantity in the receiver has been removed using the funnel. When used as a snow gauge, the receiver and funnel are detached and snowfall is measured directly. Furnished with black lamacoid measuring stick. Tripod sold separately. 8-1/4″ Dia. x 27″H overall.

Gauge	C	10 lbs.	**89018**	**$404.00**
			2+	**$373.00**
Tripod		8 lbs.	**89019**	**$105.00**
Replacement Measuring Stick		1 oz.	**89020**	**$46.75**

E English C Combination English and Metric
F Ships Motor Freight. See Shipping Information for details.

Forester's Rain Gauge
5483

English

Aluminum rain gauge has a total capacity of 7″ and measures to 0.01″. Receiver, overflow cylinder, measuring cup and stick. USFS Specification No. 5100-451A. Order mounting support separately. 7-1/4″ Dia. x 10″H.

Forester's Rain Gauge 4 lbs.	E		**89048**	**$257.50**
Support for mounting gauge on post 2 lbs.			**89114**	**$60.00**
Replacement Measuring Stick 1 oz.			**89049**	**$33.25**

Snow Gauge
3391

Made in USA

Withstands blizzard-force winds!

Accurately measures fallen snow depths up to 30″. Permanently marked, large, white 1/2″ graduations on a green background are designed for reading from a distance. Gauge self-adjusts by sliding down the legs to allow for accurate measuring. Spring steel legs are designed to withstand blizzard-force winds. Weather-resistant corrugated plastic gauge. Made in the U.S.A. **Dimensions:** 42″ x 4″ x 1/8″.

Snow Gauge 8 oz.	E		**88984**	**$8.95**

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RainWise® Inc.

RainWise® Electronic Recording Rain Gauges

5482

The 8″ diameter collector meets NWS specifications for statistical accuracy. Each time the bucket tips, a count is transmitted to the indoor display, and the gauge empties. Wired and wireless models available. The single counter model displays up to 9.99″ of rain and can be reset to zero after each rainfall. The dual counter model features both a current counter which records rainfall in hundredths of an inch with a capacity of 9.99″, as well as an accumulation counter which records rainfall in tenths of an inch up to 99.9″ of rain and allows you to select the number of individual rain events recorded. A long-life alkaline battery is included.

Electronic Rain Gauge with 60′ of cable	E	3 lbs.	**88993**	**$70.95**
			5+	**$65.75**
Wireless Dual Display Electronic Rain Gauge	E	3 lbs.	**88974**	**$179.96**

RainWise® Inc.

RainWise® RainLogger™ Data Logging Rain Gauges

8073

Perfect for logging rainfall at remote locations, the battery-operated RainLogger records total rainfall with one-minute time/date stamp resolution. The system is comprised of a tipping bucket rain gauge fitted with a RainLog™ 2.0 data logger. The data logger features a 2 MB nonvolatile memory and can record and store data for five years or longer. Powered by two AAA alkaline batteries (included), the data logger also offers easy USB connectivity. The rain gauge is calibrated to 0.01″ (0.25mm) per tip and is constructed of high-impact polypropylene. Also included is RL-Loader 2 Windows®-based software for use in configuring the logger and downloading data. Data can be displayed in text and graphical formats, and you can easily print graphs and reports. Previously saved data can also be used for analysis and report generation. Includes data logger, rain bucket, software, and USB cable.

RainLogger Complete Package, includes Mounting Mast	C	10 lbs.	**88970**	**$325.00**
RainLogger Complete Package without Mounting Mast	C	3 lbs.	**88971**	**$215.00**

Oregon Scientific Rain Gauge with Outdoor Thermometer

8106

Features a 10-day memory!

Measure rainfall as well as outdoor temperature with this combination rain gauge/thermometer. The rain gauge features a 10-day memory and displays daily, 9-day historical, and total rainfall amounts in either inches or millimeters. The unit also features a high daily rainfall alarm. An automatic self-emptying rain cup measures and then discards the collected rain.

Wireless transmission range: Rain gauge, 300′; Thermometer, 100′. **Power:** Main unit, 2 AA batteries (included); Sensor, 2 AAA batteries (included). **Dimensions:** 3.5″L x 1″D x 5.6″H.

Rain Gauge with Outdoor Thermometer	C	2 lbs.	**88981**	**$54.75**

Kestrel® Weather Stations pages 504 and 505

onset computer corporation

Onset® Data Logging Rain Gauge

8497

This fully self-contained rain gauge utilizes a tipping-bucket rainfall collector and a HOBO® Pendant Event Data Logger to automatically record up to 160 inches of rainfall data with a 16,000-tip memory capacity. The nonvolatile EEPROM memory retains data even if the battery fails. Start date and time can be programmed by the user. A HOBO® Pendant Optic USB Base Station and HOBOware™ Pro software (each sold separately) are required to connect the rain gauge to a computer for launch and readout. The rain gauge features a removable top for easy data offload, three mounting feet for setup on level surfaces (three screws included), and a side bracket for mast mounting (hose clamps included).

Housing: Aluminum with baked-on enamel finish. Stainless steel shaft and brass bearings. High-impact ABS plastic tipping bucket. **Funnel:** Anodized aluminum. **Operating temperature range:** 32°F to 122°F (0°C to 50°C). **Storage temperature range:** -4°F to 158°F (-20°C to 70°C). **Accuracy:** ±1% (up to 1″ per hour). **Time accuracy:** ±1 minute per month at 77°F (25°C). **Rainfall resolution:** English, 0.01″; Metric, 0.2mm. **Power:** CR-2032 3V lithium battery. **Battery life:** one year typical use. **Dimensions:** 10″H x 6.5″ diameter.

Onset Data Logging Rain Gauge, English	E	3 lbs.	**89484**	**$420.00**
Onset Data Logging Rain Gauge, Metric	M	3 lbs.	**89491**	**$420.00**
HOBO Pendant Optic USB Base Station		3 oz.	**89478**	**$70.00**
HOBOware Pro for Windows and Macintosh	R	10 oz.	**89479**	**$99.00**
HOBO Waterproof Data Shuttle		13 oz.	**90707**	**$249.00**

HOBOware software is available as a free download on our website. www.forestry-suppliers.com

onset computer corporation

HOBO® Pendant Event Data Logger

8407

This data logger connects to most standard tipping-bucket rain gauges and records rainfall rates, times, and duration as well as momentary contact events and temperature. Because event data is stored when it happens, memory is efficiently used. The data logger features a 16,000 to 23,000 event memory and an event/measurement memory of 25,000 to 30,000 events and measurements. Data can be viewed in inches or millimeters. Tips are logged with time-stamps to gauge rainfall intensity, and the lockout feature eliminates false readings from tipping-bucket bounce. A HOBO® Pendant Optic USB Base Station (sold separately) and either Hoboware available as a free download or Hoboware Pro software (sold separately) required for use.

Event type: relay contact closure or rain gauge tips. **Operating temperature:** -4°F to 158°F (-20°C to 70°C). **Time accuracy:** ±1 minute per month at 77°F (25°C). **Power:** CR-2032 3V lithium battery. **Battery life:** one year typical use. **Dimensions:** 2.8″ x 1.3″ x 0.9″.

HOBO Pendant Event Data Logger		4 oz.	**89485**	**$105.00**
HOBO Pendant Optic USB Base Station		3 oz.	**89478**	**$70.00**
HOBOware Pro for Windows and Macintosh	R	10 oz.	**89479**	**$99.00**
HOBO Waterproof Data Shuttle		13 oz.	**90707**	**$249.00**

E English M Metric C Combination English and Metric
R Non-returnable if opened

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Apogee Instruments Quantum Light Meters

7564

Manufacturer's Warranty 1 Year

Meters approximate radiation between 400 and 700 nanometers, the most important wavelengths for driving photosynthesis and plant growth. They measure instantaneous Photosynthetic Photon Flux (PPF) in µmol m-2 s-1. A blue lens filters spectra for improved response. Each manually stores up to 99 data points and automatically stores 99 consecutive 30-minute averages. Cosine-corrected head and sun and electric calibration. One-year manufacturer's warranty.

Measurement Range: 0 to 2,999 µmol m. **Operating Environment:** 0°C to 50°C; less than 90% non-condensing relative humidity up to 30°C, less than 70% relative humidity from 30°C to 50°C. **Power:** standard 3 Volt coin cell battery.

MQ100 Quantum Light Meter	6 oz.	**92527**	**$347.00**
MQ200 Quantum Light Meter with Remote Sensor	8 oz.	**92528**	**$399.00**

EXTECH INSTRUMENTS

Extech® EasyView Light Meter

2119

Ideal for high intensity measurements.

This compact meter features a large, easy-to-read display with bar graph. Measures foot candles up to 40,000 in four ranges and up to 400,000 lux in five ranges. The meter utilizes a precision silicon photodiode sensor and features a 5′ coiled cable for easy storage. Other features include min/max function, cosine and color corrected measurements, peak hold, data hold, auto power-off, and indicators for low battery and overrange. Built-in stand, remote sensor with protective cover, protective holster, and 6 AAA batteries included.

Range: Lux, 40, 400, 4,000, 40,000, 400,000; Foot candle, 40, 400, 4,000, 40,000. **Resolution:** 0.01. **Basic accuracy:** ±3% rdg + 5 digits. **Dimensions:** 5.9″ x 2.8″ x 1.4″.

EasyView Light Meter	2 lbs.	**92500**	**$189.99**

EXTECH INSTRUMENTS

Extech® Foot Candle/Lux Meter

1393

Measures in foot candles or lux in three ranges.

Accurately measures light intensity levels in terms of foot candles (fc) or lux over a wide range. Measures from 0 to 5,000 fc in three ranges with a resolution of 0.1 fc. Also measures from 0 to 50,000 lux in three ranges with a resolution of one lux. Includes built-in analog output. Meter is accurate to 5%. Precision selenium photovoltaic cells give sampling time of 0.4 seconds. Automatic zero adjustment. Large 1/2″ digital LCD displays read to 1,999 counts and indicate overrange. 9V battery included. Measures 6.4″ x 2.8″ x 1.2″.

Foot Candle/Lux Meter	14 oz.	**92524**	**$149.99**
Carrying Case	4 oz.	**92525**	**$15.99**

Storm Pro 2 Storm Detector

7120

Know when and where severe weather will strike! Displays a storm's speed, range, and ETA.

Totally self-contained, the Storm Pro 2 detects the storm directly using the electromagnetic signals of the lightning to provide instant storm warning. Portable and easy to use, the proprietary software turns the complexities of storm tracking into simple text messages displayed on a backlit LCD, detecting storms out to distances of 75 miles, determining distance and approach speed (ETA), and immediately warning a user when a storm becomes a LOCAL threat. Also features a TIME TO CLEAR function which lets the user know when it is safe to resume outdoor activities. Unit comes in a rugged, hard carry case.

Storm Detection Range: up to 75 miles. **Warning Modes:** text messages via 2 x 16 backlit LCD; red LED warning light; audible tone; connector for external alarm. **Power Supply:** one 9V Battery (included) or 120V AC Adapter. **Size:** 6.4″ x 3.4″ x 1.5″. **Weight:** 14 oz.

Storm Pro 2 Storm Detector	4 lbs.	**29110**	**$599.95**
9V Alkaline Battery, single	3 oz.	**02179**	**$3.20**

SkyScan™ Lightning/Storm Detector

2684

Detect lightning as far as 40 miles away! Thanks to the patented dual antenna technology and digital microprocessor, the SkyScan is the most reliable and accurate lightning detection system available. With the push of a button, SkyScan detects lightning and accurately tracks its approach with both an audible tone and four LED's which are ranged in miles to let you know if the storm is moving towards, away or parallel to your position. In case of a severe storm, the SkyScan warns of strong thunderstorms or squall lines by sounding a continuous alarm for 15 seconds and illuminating the Severe Storm LED for a minimum of 15 minutes and repeats this every 15 minutes until the severe weather activity has cleared. Other features include a rugged weather-resistant case, a range select allows audible warning to be set at desired range, and a battery save function. Operates on two 9 Volt batteries. **Dimensions:** 6.5″H x 3.1″W x 1.5″D.

SkyScan Lightning/Storm Detector	14 oz.	**29101**	**$239.50**
		2+	**$218.25**

StrikeAlert® Personal Lightning Detector

4692

Economical, easy to operate, and goes anywhere!

Manufacturer's Warranty 1 Year

Ultra-compact and portable, StrikeAlert warns you of lightning strikes up to 40 miles away! An audible alarm and four corresponding LED's combine to indicate how far away the lightning is (24 to 40 miles, 12 to 24 miles, 6 to 12 miles, or within 6 miles). Using a trend of lightning strike distances over the last five minutes, StrikeAlert can also determine if a storm is approaching, departing, or stationary. The detector is housed in an impact-resistant, pager-like casing that clips to your belt, golf bag, or backpack. The unit shuts off after two hours without lightning detection, and two AAA batteries (included) provide up to 100 hours of operation. One-year limited warranty from the manufacturer.

StrikeAlert Personal Lightning Detector	4 oz.	**29111**	**$72.95**
AAA cell Alkaline Batteries, pack of 4	2 oz.	**02362**	**$3.25**

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SolaDyne® Emergency Alert Radio & Flashlight
4708

You'll always be informed and prepared with this full-function AM/FM/seven-channel weather band radio and powerful three-LED flashlight! The NOAA All Hazards Alert Weather Radio provides automatic alerts during severe weather or other emergencies in your area. This versatile device can be charged using the built-in solar panel, the hand crank, the included USB adapter, a 120V AC or 12V DC power adapter (not included), or three AAA batteries (not included). The unit fully charges in six hours using solar power. Three minutes of winding the hand crank will provide up to 30 minutes of radio or flashlight use. You can also use the device to charge your cell phone (using USB-compatible chargers). Other features include an LCD display, a clock, a headphone jack (headphones not included), and a built-in carabiner clip. One-year manufacturer's warranty.

SolaDyne Emergency Alert Radio & Flashlight 1 lb.	**29224**	**$55.50**
AAA cell Alkaline Batteries, pack of 4 2 oz.	**02362**	**$3.25**

All Hazards Weather & Emergency Alert Monitor
5144

Programmable to receive and display alerts, watches, and warnings that apply only to your local area! With advanced S.A.M.E. (Specific Area Message Encoding) technology, up to six individual counties can be programmed to eliminate false alerts. Ideal for the great outdoors, this compact, portable radio automatically tunes all seven NOAA weather radio channels across the country and receives continuous 24-hour National Weather Service broadcasts, emergency weather warnings, and other civil defense alerts. The unit features a 100 decibel audio alarm with a visual alert signal. Other features include speaker on/standby/mute control, dual LED indicator for power alert, an LCD screen with EL backlighting, digital clock display with 12/24 hour format, two daily alarms with snooze, calendar with day/month/year display, and a belt clip. A convenient cradle which holds the unit and an AC adapter are included. Also operates on 3 AA batteries (not included). **Dimensions:** 2.75″L x 1.25″D x 5.25″H.

All Hazards Weather & Emergency Alert Monitor with Cradle 2 lbs.		**29159**	**$49.99**
	3+		**$44.95**
AA cell Alkaline Batteries, pack of 4 7 oz.		**02352**	**$3.25**

MIDLAND

Midland® WR-300 S.A.M.E. Weather/All-Hazards Alert Monitor with AM/FM Radio
2802

Utilizing S.A.M.E. technology (Specific Area Message Encoding), this weather radio provides automatic alerts and warnings for one or multiple counties (up to 23 user-selected counties). **Choose from three alert types:** a 90 dB siren alarm, voice alert, or visual LED flasher. The display shows "EXP" when an alert has expired. The weather radio features all seven N.O.A.A./Environment Canada weather channels, stores up to 10 previously received alerts, uses convenient color-coded alert level indicators, and has a battery-powered emergency power backup (batteries not included). The unit also features an AM/FM radio with six memory channels, an alarm clock with snooze function, and a full calendar display (day, month, and year). An alert override function automatically switches over from AM/FM radio programming to warn you of hazardous conditions. The large LCD features a continuous backlighting option. AC power adapter included.

Power: 4 AA batteries (not included). **Dimensions:** 7″W x 2.5″H x 6″D.

Midland WR-300 S.A.M.E. Weather/All-Hazards Alert Monitor with AM/FM Radio 2 lbs.	R	**29152**	**$62.95**
AA cell Alkaline Batteries, pack of 4 7 oz.		**02352**	**$3.25**

MIDLAND

Midland® WR-120 S.A.M.E. Weather/All-Hazards Alert Monitor with Alarm Clock
8192

This versatile unit features Specific Area Message Encoding (S.A.M.E.) localized reception that allows you to specify whether you want to receive alerts from one county or multiple counties (up to 25 different counties). You can monitor seven N.O.A.A. channels, and an emergency power backup keeps the unit operating during power outages or outdoor use. A user-selectable warning system lets you choose from a 90 dB siren alarm, voice alert, or visual red LED flasher. The unit can also be set to receive weekly audible test signals and transmits alerts in English, Spanish, and French. The alarm clock features a full time display, and a continuous backlighting feature keeps the LCD display on for easy viewing.

Power: 3 AA batteries (not included). **Dimensions:** 5-1/8″W x 2″H x 6-1/4″D.

Model WR-120 S.A.M.E. Weather/All-Hazards Alert Monitor with Alarm Clock 2 lbs.	R	**29156**	**$44.95**
AA cell Alkaline Batteries, pack of 4 7 oz.		**02352**	**$3.25**

EXTECH INSTRUMENTS

Extech® Big Digit Indoor/Outdoor Hygro-Thermometer
2999

°Fahrenheit / °Celsius

This hygro-thermometer simultaneously displays both indoor and outdoor temperature and humidity. Features max/min memory function with reset. Includes built-in stand, wall mounting bracket, outdoor sensor with 35″ cable, and AAA battery. One-year warranty from the manufacturer.

Range: Humidity, 10% to 99% RH; Temperature, 14°F to 140°F (-10°C to 60°C). **Accuracy:** Humidity, ±5% RH; Temperature, ±1.8°F (±1°C). **Dimensions:** 4.3″x 3.9″x 0.78″. **Weight:** 6 oz.

Extech Big Digit Indoor/Outdoor Hygro-Thermometer	C	7 oz.	**89222**	**$45.95**

C Combination English and Metric
R Cannot be sold internationally

1 Manufacturer's Warranty 1 Year

Taylor® Wireless Weatherguide™ Weather Station
7210

Measure indoor/outdoor temperature (°F or °C) and humidity as well as barometric pressure with this wireless weather station. Minimum/maximum temperature, 12 to 24 hour weather forecast, comfort level indicator, and moon phase are also displayed. The weather station features an atomic clock with alarm and snooze, a month/day calendar, a 3.4″ blue backlit LCD, and a low battery indicator. One remote sensor and AC adapter included. One-year manufacturer's limited warranty.

Range: Indoor Temperature, 14°F to 158°F (-10°C to 70°C); Outdoor Temperature, -40°F to 158°F (-40°C to 70°C); Indoor/Outdoor Humidity, 20% to 99% RH. **Resolution:** Temperature, 0.1°; Humidity, 1%. **Transmitting Range:** up to 100′. **Power:** Base, AC adapter (included) or 2 AAA batteries (not included); Remote, 2 AAA batteries (not included).

Taylor Wireless Weatherguide Weather Station	C	2 lbs.	**76264**	**$45.25**

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Taylor® Indoor/ Outdoor Digital Thermometer with Humidity Gauge

2103

°Fahrenheit / °Celsius

Features a large, easy-to-read, backlit LCD. Displays and records max/min indoor and outdoor temperatures as well as indoor humidity. °F/°C selectable. Includes detachable external sensor probe with 10′ of cable. Desk or wall-mount design.

Indoor temperature range: 32°F to 122°F (0°C to 50°C). **Outdoor temperature range:** -58°F to 158°F (-50°C to 70°C). **Resolution:** 2°F (1°C). **Indoor humidity range:** 25% to 95%. **Power:** 1 AAA battery (included).

Taylor Indoor/Outdoor Digital Thermometer with Humidity Gauge
8 oz. C **89214** **$12.95**

Digital Hygro-Thermometer

2341

Meets GLOBE Specifications

This Hygro-Thermometer meets the GLOBE Protocols for air temperature, relative humidity, soil temperature and maximum-minimum and current temperatures. Features include large, bold numbers, a dual display for temperature and humidity, max/min temperature and humidity memory, and a freeze alert. Mounts easily by key hole, Velcro®, magnet or the flip-out desk stand.

Measuring Range: Temperature, -58°F to 158°F/-50°C to 70°C; Humidity, 20% to 99% RH. **Accuracy:** Temperature, ±1°F/±0.5°C; Humidity, 5%. **Resolution:** 0.1°; 1%RH. **Sampling Time:** 10 Seconds. **Battery:** One 1.5V (included).

Thermohygrometer, Digital
6 oz. C **89345** **$27.95**

Digital Thermohygrometer

7136

Meets GLOBE Specifications

Continuously and simultaneously displays relative humidity and temperature in °F/°C with dual-recall memories. The extra-large, easy-to-view, 5/8″ high digits can be read at a glance from as far away as 20′. ABS Plastic housing is chemical- and shock-resistant. Supplied with a wall mount and bench stand, switch to read °F/°C, fast-response, solid-state sensors, and two AAA batteries.

Temperature: Range, 32°F to 122°F/0°C to 50°C; Resolution, 1°; Accuracy, 1°C. **Humidity:** Range, 25 to 95%; Resolution, 1% RH; Accuracy, ±2% (mid-range) to ±4% (ends-of-range). **Update Rate:** 1 second. **Dimensions:** 2-5/8″ x 3-7/8″ x 5/8″.

Digital Thermohygrometer
4 oz. C **89340** **$54.25**

Thermo-Hygrometer Max-Min Clock

5451

°Fahrenheit / °Celsius

Three instruments in one handy desktop unit! Displays temperature in both °C and °F, humidity, and time on three large LCDs. The clock function automatically displays 12-hour time with AM/PM indication when in °F mode and 24-hour time when in °C mode. Memory with reset function stores minimum and maximum temperature and humidity measurements. Unit comes complete with a built-in tilt stand, wall mounting bracket, and one AAA battery.

Measuring range: Temperature, 14°F to 140°F (-10°C to 60°C); Relative Humidity, 25% to 95%. **Accuracy:** Temperature, ±1.8°F (±1°C); Relative Humidity, to ±6%. **Resolution:** Temperature, 0.1°F or/°C; Relative Humidity, 1%. **Dimensions:** 4.3″ x 2.8″ x 0.8″.

Thermo-Hygrometer Max-Min Clock
5 oz. C **76254** **$33.99**

Wireless Indoor/Outdoor Thermo-Hygrometer

6475

°Fahrenheit / °Celsius

With this precision instrument, you can monitor indoor and outdoor temperature from up to three remote locations, as well as take indoor humidity readings. One wireless sensor for monitoring outdoor temperature is included with the unit. To obtain outdoor humidity measurements also, simply add a Remote Temperature/Humidity Sensor (sold separately). Data can be wirelessly transmitted from 100 feet away. A customizable temperature and humidity alarm alerts you to high or low temperature levels, and three levels of temperature and humidity trends can be displayed. The ice warning feature alerts you when the outdoor temperature nears freezing, and the heat index indicator warns you of dangerously high temperatures. A moon phase icon allows you to easily gauge the moonlight and tides. In addition, the unit's self-setting alarm clock automatically adjusts itself to the U.S. Atomic Clock and features a crescendo alarm and snooze function. The day and month can also be displayed in five different languages.

Remote temperature range: -22°F to 140°F (-30°C to 60°C). **Temperature resolution:** 0.2°F (0.1°C). **Outdoor temperature receiving cycle:** 39 seconds. **Operating temperature range:** 23°F to 122°F (-5°C to 50°C). **Relative humidity range:** 25% to 95% RH. **Temperature compensation range:** -10°C to 60°C. **Dimensions:** Main unit, 5″ x 4.5″ x 2″; Sensor, 3.6″ x 2″ x 9″.

Temperature and Humidity Station Weather 300	10 oz.	**94521**	**$36.75**
Remote Temperature/ Humidity Sensor	6 oz.	**94538**	**$39.99**

Note: To measure outdoor humidity, 94538 must also be purchased along with 94521.

Taylor® Professional Digital Humidiguide®

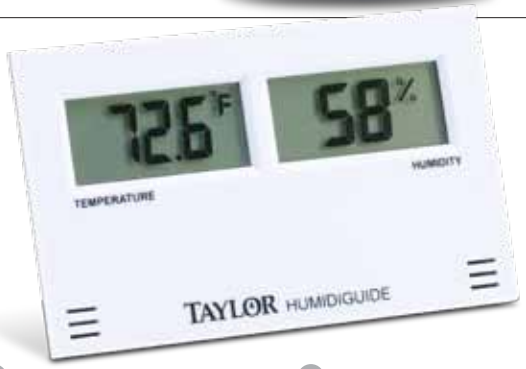
5455

°Fahrenheit / °Celsius

Highly accurate instrument with digital display of temperature and humidity in easy-to-read 1/2″ digits. Use indoors with the built-in tabletop stand or hang up outdoors.

Range: -58°F to +158°F, -50°C to +70°C, 20% to 95% RH. **Graduations:** 0.1°F, 0.1°C, 1% RH increments in the 30% to 83% range (3% increments in the remainder of the range). **Power:** Two AAA batteries (included). **Battery Life:** 300 days of continuous reading.

Taylor Professional Digital Humidiguide C 4 oz. **76199** **$27.25**



E English C Combination English and Metric

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1

Lascar Electronics USB Data Loggers

7934

Lascar's EasyLog data loggers are the world's first direct USB data loggers, providing a cost effective, easy-to-use method of recording temperature, humidity, voltage, 4-20mA and carbon monoxide.

1 Lascar Electronics EL-DataPad Handheld Programmer and Data Collector

Combine the EL-DataPad with your choice of EasyLog USB data loggers for the ultimate in convenient, precise data collection. The EL-DataPad allows for quick setup and reconfiguration of all temperature and temperature/humidity EasyLog USB data loggers in the field - with no computer needed! A touch screen interface makes menu navigation easy. Collected data is downloaded by simply connecting the logger to the EL-DataPad using the standard USB port at the top of the viewer. The EL-DataPad ensures shorter breaks in data collection since the logger does not need to be removed from the environment being measured during data download. Data from up to 100 loggers can be viewed on the EL-DataPad, and data from an additional 400 loggers can be stored on the unit at any one time. Data is collected in graph, legend, and summary formats. Easily transfer stored data to your PC or Mac using the micro USB cable (included). An integral rechargeable lithium battery provides up to eight hours of use. **Dimensions:** Overall, 4.2˝L x 2.7˝W x 0.7˝D; Display, 2.8˝.

EL-DataPad Handheld Programmer and Data Collector	6 lbs.	**88950**	**$199.00**

2

2 EasyLog USB Carbon Monoxide Data Logger

Measures and stores up to 32,510 carbon monoxide readings. Choose from two models. One logger features a 0 to 1,000 ppm measurement range (±6% accuracy), and the other logger has a 0 to 300 ppm measurement range (±4% accuracy). User-programmable warning threshold with visual and audible warnings. Data logger, software, and battery included. These data loggers do not work with the EL-DataPad. **Note:** This is a professional measuring instrument designed to record CO gas levels for later analysis and should not be used as an alarm/safety/warning device.

Carbon Monoxide Data Logger, Range: 0 to 1,000 ppm	4 oz.	**88953**	**$125.00**
Carbon Monoxide Data Logger, Range: 0 to 300 ppm	4 oz.	**88954**	**$125.00**
Replacement Battery	1 oz.	**88951**	**$4.50**

3

3 EasyLog USB Extended Range Temperature Data Logger

Measures and stores up to 32,510 temperature readings. Stainless steel (316 grade) case protects against corrosion, impact, and water ingress to IP67/NEMA 4X. Data logger, software, and battery included.

Measurement Range: -40°C to +125°C (-40°F to +257°F). **Accuracy:** Typical, ±0.2°C (±0.4°F); Maximum, ±0.5°C (±1°F).

Extended Range Temperature Data Logger	5 oz.	**88955**	**$150.00**
Replacement Battery for 88955	1 oz.	**88952**	**$19.00**

4

4 EasyLog USB Temperature Data Logger

Choose from two available data logger models. The standard model stores up to 16,382 temperature readings. The other model features a high contrast LCD that displays current temperature as well as maximum and minimum temperatures from among the 16,378 stored readings. User-programmable alarm thresholds and status indication via red, green, and orange LEDs. Environmental protection to IP67 standard when protective cap is fitted. Data logger, software, and battery included.

Measurement Range: -35°C to +80°C (-31°F to +176°F). **Accuracy:** Standard Logger - Typcial, ±1°C (±2°F); Logger with LCD screen - Typical, ±0.5°C (±1°F) and Maximum, ±1.5°C (±3°F).

Temperature Data Logger	3 oz.	**88956**	**$59.95**
Temperature Data Logger with LCD Screen	4 oz.	**88957**	**$81.50**
Replacement Battery	1 oz.	**88951**	**$4.50**

5

5 EasyLog USB Humidity, Temperature, and Dew Point Data Logger

Each logger measures relative humidity and temperature and also provides dew point indication using the included software. Two models available. The standard logger measures and stores up to 16,382 relative humidity and temperature readings. The other logger features a high contrast LCD that displays current readings and the maximum and minimum stored values among the 16,379 relative humidity and temperature readings. User-programmable alarm thresholds for % RH and temperature. Status indication via red and green LEDs. Environmental protection to IP67 standard when protective cap is fitted. Data logger, software, and battery included.

Measurement Range: 0 to 100% RH; -35°C to +80°C (-31°F to +176°F). **Accuracy:** Typical, ±3% RH, ±0.5°C (±1°F); Maximum, ±5.0% RH, ±2°C (±4°F).

Humidity, Temperature, and Dew Point Data Logger	3 oz.	**88958**	**$82.00**
Humidity, Temperature, and Dew Point Data Logger with LCD Screen	4 oz.	**88959**	**$99.00**
Replacement Battery	1 oz.	**88951**	**$4.50**

6

6 EasyLog USB Thermocouple Data Logger

Measures and stores up to 32,510 temperature readings. A basic K-type thermocouple is supplied (for 0°C to 400°C/32°F to 752°F measurements), and the data logger is designed to work with J, K, and T-type thermocouples fitted with a standard mini thermocouple connector. Choose from the standard data logger or the data logger model with a high contrast LCD that displays several different temperature variables. User-programmable alarm thresholds. Status indication via red and green LEDs. Data logger, measurement leads, software, and battery included. **Accuracy:** ±1°C (±2°F).

Thermocouple Data Logger	3 oz.	**88960**	**$85.00**
Thermocouple Data Logger with LCD Display	4 oz.	**88961**	**$102.00**
Replacement Battery	1 oz.	**88951**	**$4.50**

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Kestrel

New! Kestrel® DROP® Environment Sensors

4856

Requires iPhone 4S (or later), iPod Touch 4th Generation (or later), or iPad 3 (or later). Compatible with iOS6 and iOS7.

5 Manufacturer's Warranty 5 Year

These small, rugged, waterproof data loggers allow you to accurately monitor the conditions of any environment. Place them inside, outside and even in water to log specific environmental conditions and transmit data via Bluetooth SMART to an iPhone, iPod Touch or iPad. Logged data can be viewed, charted and shared real-time through the Kestrel Connect app, which is available free of harge from the Apple App Store. The DROP can be accessed within clear view wireless range with the easy-to-use app. Waterproof and drop-tested to MIL-STD-810G. Made in the USA, individually calibrated and covered by a 5-year manufacturer's warranty.

Temperature: Accuracy +/- 0.9°F/0.5°C, Resolution 0.1°F/0.1°C, Range -10°C to 55°C. **Humidity:** Accuracy +/- 2% RH, Resolution 0.1% RH, Range 10% to 90% RH 25°C. **Dew Point:** Accuracy +/- 1.8°C, Resolution 0.1°F/0.1°C, Range -10°C to 55°C, 10% to 90% RH 25°C. **Heat Index:** Accuracy +/- 2.6°C, Resolution 0.1°F/0.1°C, Range -10°C to 55°C, 10% to 90% RH 25°C. **Connectivity:** Bluetooth Low Energy (BLE), connects to iOS devices (models 4S and later). **Logging Rate:** 2 seconds to 12 hours. **Data Storage:** One Mbit. **Waterproof:** IP67 and NEMA-6, One meter, 30 minute submersion. **Shock Resistance:** MIL-STD-810g, Transit Shock, Method 516.5 Procedure IV, 4 ft drop. **Battery Type:** User replaceable CR2032 (included). **Storage Temperature:** -22°F to 176°F / -30°C to 80°C. Designed and manufactured in USA. Complies with Regional Value Content and Tariff Code Transformation requirements for NAFTA Preference Criterion B.

Kestrel® DROP® D1 SMART Temperature Data Logger

The DROP D1 SMART Temperature Data Logger measures temperature only.

DROP D1, Tan 6 oz.	**89550**	**$89.00**
DROP D1, Red 6 oz.	**89551**	**$89.00**
DROP D1, Blue 6 oz.	**89552**	**$89.00**

Kestrel® DROP® D2 SMART Temperature/Humidity Data Logger

The DROP D2 SMART Temperature/ Humidity Data Logger measures temperature, humidity, heat index and dew point temperature.

DROP D2, Tan 5 oz.	**89560**	**$149.00**
DROP D2, Red 5 oz.	**89561**	**$149.00**
DROP D2, Blue 6 oz.	**89562**	**$149.00**

Kestrel® DROP® D3 SMART Environment Sensor

The DROP D3 SMART Environment Sensor measures temperature, humidity, heat index, dew point temperature, wet bulb temperature, density altitude, barometric pressure, moisture content/humidity ratio, relative air density, and absolute pressure.

DROP D3, Tan 6 oz.	**89570**	**$179.00**
DROP D3, Red 6 oz.	**89571**	**$179.00**
DROP D3, Blue 6 oz.	**89572**	**$179.00**

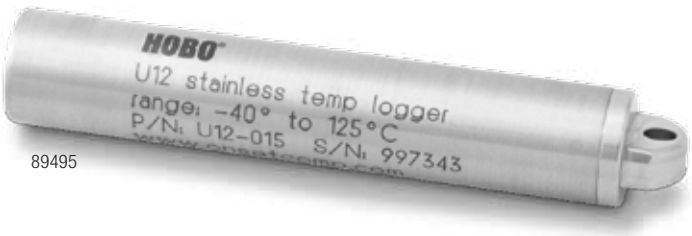
Measurements		D1	D2	D3
Stock Number	Tan	89550	89560	89570
	Red	89551	89561	89571
	Blue	89552	89562	89572
Temperature		•	•	•
Humidity			•	•
Heat Index			•	•
Dew Point Temperature			•	•
Wet Bulb Temperature				•
Density Altitude				•
Barometric Pressure				•
Moisture Content/ Humidity Ratio				•
Relative Air Density				•
Absolute Pressure				•

New! HOBO® U12 Stainless Temperature Data Logger

4832

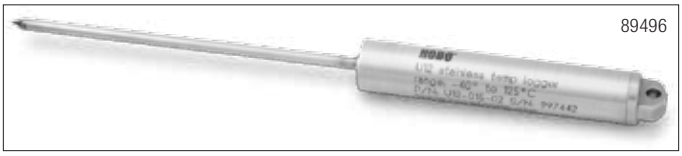
Ideal for food, pharmaceutical, autoclave, and other applications where high-accuracy temperature data is critical. Withstand process conditions from pasteurization to flash freezing and washdown. Suitable for high pressure applications to 200 psi. Fast readout via direct USB interface. For use in indoor, outdoor, and under water environments. Requires either Hoboware, available as a free download, or Hoboware Pro software (sold separately) for use.

Memory: 43,000 measurements. **Battery Life:** 3 Year typical, factory replaceable. **Operating Range:** Logging - -40°F to 257°F (-40°C to 125°C); Launch/readout - 32°F to 122°F (0°C to 50°C), per USB specification. **Range:** -40°F to 257°F (-40°C to 125°C). **Accuracy:** ±0.45°F from 32° to 122°F (±0.25°C from 0° to 50°C). **Resolution:** 0.05°F at 77°F (0.03°C at 25°C). **Logger Dimensions:** 0.69″x 4″. **CE Compliant:** Yes.



89495

HOBO U12 Stainless Temperature Data Logger – Response Time: 10 minutes (to 90% in airflow of 1 m/s); 3.5 minutes (to 90% in water).	4 oz.	**89495**	**$272.00**
HOBO U12 Stainless Temperature Data Logger with 5″ Probe – Response Time: 2.25 minutes (to 90% in airflow of 1 m/s); 20 seconds (to 90% in water).	4 oz.	**89496**	**$373.00**
HOBOware Pro for Windows and Macintosh	10 oz.	**89479**	**$99.00**



89496

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HOBOware Pro Software
3899

Use this software for easy launch and readout of your HOBO® USB data logger as well as flexible plotting of data! Data can be exported for more in-depth analysis using other programs including spreadsheets. The software allows you to set launch parameters such as which channels to record, sample interval, and start type (immediate, delayed, interval, or triggered); monitor battery level; and synchronize logger clocks to the computer clock. With the graphing capability, you can view multiple parameters from a single logger on one graph, zoom in on data of interest, set axes ranges, display data in different formats, and display recorded events in graphs or file exports. You can also verify logger operation before launch or during logging, as well as displaying real-time sensor readings, memory used, and battery voltage. One-click conversion allows for easy data upload into Microsoft® Excel software or other programs. Windows® and Mac versions included together on one CD. The Windows version offers enhanced features which allow for the combination of data from multiple loggers or deployments, saving of current data for future use, linear scaling for external inputs, listing of recently accessed files, and automatic internet updates. Software, USB interface cable, and manual included.

System Requirements for HOBOware Pro for Windows: Windows 8, 7 (Pro, Ultimate, and Home Premium), XP (Pro and Home); Java Runtime Environment (JRE) version 1.6 or 1.7 (32-bit or 64-bit on Windows); 256 MB system RAM (512 MB recommended); 3.5 MB free disk space after installing the Java Runtime Environment; USB port; 1024 x 768 (minimum) display resolution, 256+ colors. **System Requirements for HOBOware Pro for Mac:** Mac with an available USB port. **Supported Operating Systems:** Mac OS X Versions 10.7.x, 10.8.x, and 10.9.x, with Java Runtime Environment (JRE) version 1.6 or 1.7.

HOBOware Pro for Windows and Macintosh ▲	10 oz.	**89479**	**$99.00**

Hoboware is available as a free download www.forestry-suppliers.com

▲ **Note:** Non-returnable if opened or seal is broken.

89494

90707

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HOBO® Pendant Data Loggers
8406

Waterproof to 30 meters and value-priced for short-term applications or year-long remote deployment. User-selectable intervals can be set from 1 second to 18 hours, and you can program the start time/date or trigger start on-site with a magnet. Fast optic USB interface allows data readout in less than 30 seconds. Requires either Hoboware, available as a free download, or Hoboware Pro software (sold seperately) for use.

HOBO® Pendant Data Logger Accessories

HOBO Waterproof Data Shuttle*	13 oz.	**90707**	**$249.00**
HOBOware Pro for Windows and Macintosh ▲	10 oz.	**89479**	**$99.00**

* Use of data shuttle requires Hoboware Pro software sold separately.

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Onset® TidbiT® v2 Temp Data Logger
8478

Rugged and compact, the TidbiT v2 records more than 42,000 12-bit measurements and is waterproof to 1,000′ (300 m). Start time and date can be programmed with a user-selectable sampling interval from 1 second to 18 hours. The non-volatile EEPROM memory retains measurements even if the battery fails. A blinking LED confirms operation, and the data logger provides battery level indication at launch. An optional thermoplastic elastometer white protective boot (sold separately) provides cushioning in harsh conditions, and the light color minimizes solar radiation absorption. Use a HOBO Waterproof Data Shuttle or Optic USB Base Station (each sold separately) for fast, easy launching and readout. The high-speed optic USB interface offloads a full logger in less than 30 seconds. Requires either Hoboware, available as a free download, or Hoboware Pro software (sold seperately) for use.

Temperature range: -20°C to 70°C (-4°F to 158°F) in air; maximum sustained temperature of 30°C (86°F) in water†. **Response time:** 5 minutes in water; 12 minutes in air moving 2 m/sec; 20 minutes in air moving 1 m/sec (typical to 90%). **Best accuracy:** ±0.2°C over 0°C to 50°C (±0.36°F over 32°F to 122°F). **Best resolution:** 0.02°C at 25°C (0.04°F at 77°F). **Power:** 3V lithium, non-replaceable. **Battery life:** 5 years, typical use. **Dimensions:** 1.6″ x 1.18″ x 0.67″. **Weight:** 0.8 oz.

Onset TidbiT v2 Temp Data Logger	2 oz.	**89454**	**$133.00**
HOBO Waterproof Data Shuttle*	13 oz.	**90707**	**$249.00**
Optic USB Base Station	10 oz.	**90706**	**$124.00**
White Protective Boot for Onset TidbiT v2, pack of 5	1 oz.	**89494**	**$25.00**
HOBOware Pro for Windows and Macintosh ▲	10 oz.	**89479**	**$99.00**

†To guarantee accuracy, the TidbiT v2 must not be used in condensing environments and water temperatures higher than 30°C (86°F) for more than eight cumulative weeks over the life of the logger. Frequent or prolonged exposure will lead to measurement drift and eventual failure.

HOBO® Pendant Temp/Alarm One Channel Data Loggers

Logger alarm LEDs flash if temperatures have exceeded user-set levels and delay options, and provide visible verification that temperatures have been within the desired range throughout deployment. The 8K Model stores approximately 6.5K of 10-bit temperature readings while the 64K Model stores approximately 52K of 10-bit temperature readings.

Temp with Alarm Logger, 6,500 Measurements	2 oz.	**89474**	**$42.00**
Temp with Alarm Logger, 52,000 Measurements	2 oz.	**89475**	**$59.00**

HOBO® Pendant Temp/Relative Light Two Channel Data Loggers

Ideal for indoor/outdoor, and underwater applications measuring relative light levels and ambient temperatures. The 8K Model stores approximately 6.5K of 10-bit temperature readings while the 64K Model stores approximately 52K of 10-bit temperature readings.

Temp/Light, 8k, 3,500 Measurements	2 oz.	**89476**	**$47.00**
Temp/Light 64k, 28,000 Measurements	2 oz.	**89477**	**$64.00**

HOBO® Pendant Optic USB Base Station

The Pendant Base Station and Coupler provide fast optical infrared (IR) communication for easy logger launch and readout of HOBO Pendant loggers. The Base Station connects via USB to a host computer, while the Coupler attaches the logger to the Base Station for communications. The Pendant Base Station offloads a full 64K logger in 30 seconds or a full 8K logger in 6 seconds, and is splash resistant.

HOBO Pendant Optic USB Base Station	3 oz.	**89478**	**$70.00**

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HOBO® Pro v2 Data Loggers

8405

Ideal for use in outdoor or condensing environments, each data logger features a weatherproof housing and high-accuracy sensors. The loggers can record over 42,000 12-bit measurements, and the optic USB interface allows for fast, reliable download. Each of the external data loggers features small-diameter external sensors for easily obtaining measurements in tight spaces. To launch and readout the logger, use a HOBO Waterproof Data Shuttle or Optic USB Base Station (each sold separately). Requires either Hoboware, available as a free download, or Hoboware Pro software (sold seperately) for use.
Dimensions: 4″ x 1.5″.

HOBO® Pro v2 Data Logger Accessories

HOBO Waterproof Data Shuttle*	13 oz.	**90707**	**$249.00**
Optic USB Base Station	10 oz.	**90706**	**$124.00**
HOBOware Pro for Windows and Macintosh ▲	10 oz.	**89479**	**$99.00**

89486 89487 89489

Internal Temperature/ Relative Humidity Data Logger

Features built-in temperature and relative humidity sensors.

Internal Temperature/Relative Humidity Data Logger	4 oz.	**89486**	**$170.00**

External Temperature/ Relative Humidity Data Logger

Features an external temperature and relative humidity sensor on a 6′ cable.

External Temperature/Relative Humidity Data Logger	6 oz.	**89487**	**$199.00**

Internal Temperature/ External Temperature Data Logger

Features an external soil/water temperature sensor on a 6′ cable as well as an internal temperature sensor.

Internal Temperature/External Temperature Data Logger	6 oz.	**89489**	**$145.00**

		Internal Temperature/Relative Humidity	External Temperature/Relative Humidity	Internal Temperature/ External Temperature	
				Internal	External
Relative Humidity	Range	0 to 100% RH	0 to 100% RH	—	—
	Accuracy	±2.5% RH over 10% to 90% RH	±2.5% RH over 10% to 90% RH	—	—
	Resolution	0.03% RH	0.03% RH	—	—
Temperature	Range	-40°C to 70°C	-40°C to 100°C	-40°C to 70°C	-40°C to 100°C
	Accuracy	±0.18°C at 25°C	±0.18°C at 25°C	±0.18°C at 25°C	±0.18°C at 25°C
	Resolution	0.02°C at 25°C	0.02°C at 25°C	0.02°C at 25°C	0.02°C at 25°C

89362

90707

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HOBO® Water Temp Pro v2 Logger

4178

Ideal for temperature measurement in long-term underwater applications.

Built to withstand extended periods of immersion, the compact HOBO® Water Temp Pro v2 Logger provides reliable, accurate underwater temperature measurement. The precision sensors and electronics are sealed in a durable case which is waterproof to 100′ and has almost neutral buoyancy for stability in flowing rivers, streams, and tidal estuaries. The logger is less than 5″ long, and the low-visibility case keeps the logger hidden from view. An optional high-impact protective rubber boot is ideal for use during times of high water flow or flooding when the logger may come in contact with moving debris.
The Water Temp Pro v2 Logger requires an infrared base station (90706) or shuttle (90707) and Hoboware, available as a free download, or Hoboware Pro software (sold seperately) for system launch and data retrieval. The associated couplers are included with both the base station and shuttle. In addition, the shuttle can operate as a base station for added flexibility in the field. The high-speed infrared communications offloads data in less than 30 seconds (requires USB port), and the infrared communications port is located opposite the bail end for convenient access while tethered. You can offload data, as well as check the logger and battery status, even while logging. A blinking LED indicates that the logger is recording data. To reduce visibility in the field, this feature can be turned off. Non-volatile EEPROM memory retains measurements in the event of battery failure. NIST traceable certification.

HOBO Water Temp Pro v2 Logger	3 oz.	**89362**	**$129.00**
HOBO Waterproof Data Shuttle*	13 oz.	**90707**	**$249.00**
Optic USB Base Station	10 oz.	**90706**	**$124.00**
Protective Boot with Coupler	2 oz.	**89364**	**$20.00**
HOBOware Pro for Windows and Macintosh ▲	10 oz.	**89479**	**$99.00**

		HOBO Water Temp Pro Logger
Temperature Range	Non-Freezing Water	0°C to 50°C (32°F to 122°F)
	Air	-20°C to 70°C (-4°F to 158°F)
Accuracy		±0.2°C at 0°C to 50°C (±0.36°F at 32°F to 120°F)
Resolution		0.02°C at 25°C (0.04°F at 77°F)
Measurement Capacity		21,580 measurements
Sampling Interval		user-selectable 1 sec. to 9 hrs.
Memory Modes		stop or wrap-around when full
Time Accuracy		better than ±1 min./month
Response Time	Water	<5 minutes, typical 90%;
	Air	<12 minutes, typical 90%
Battery		3.6V lithium battery, factory replaceable only
Battery life		6 years (Temperature extremes will reduce battery life.)
Dimensions		4.5″ x 1.19″ with 0.25″ hole in mounting ball.

* Use of data shuttle requires Hoboware Pro software sold separately.
▲ **Note:** Non-returnable if opened or seal is broken.

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89304 onset computer corporation 89320

HOBO® U30 Data Logging Weather Station

7219

The plug-and-play architecture of this weather station allows for fast, easy deployment. Simply plug in your choice of Smart Sensors (each sold separately), connect the battery, and start logging! The rugged weather station features a double-weatherproof, tamperproof enclosure to ensure reliable performance in the harshest outdoor environments. Easily offload data to a PC or Mac via the direct USB. Use HOBOware™ Pro software (sold separately) to analyze and plot weather data. The software allows you to select weather parameters to display, format graphs, perform analysis, save projects for future use, and export data to spreadsheets.

Normal Operating Range: -20°C to 40°C (-4°F to 104°F). **Extended Operating Range:** -40°C to 60°C (-40°F to 140°F). **Memory:** Non-volatile flash data storage, 512K bytes local storage. **Data Channels:** Maximum of 15. **Logging Interval:** 1 second to 18 hours, user-specified interval. **Time Accuracy:** 0 to 2 seconds for the first data point and ±5 seconds per week at 25°C (77°F). **Communication:** Full speed USB via USB mini-B connector. **Mounting:** 1.5″ mast or wall mount. **Power:** 4 Volt, 4.5 AHr rechargeable sealed lead-acid. **Rechargeable Battery Service Life:** Typical 3 to 5 years depending upon conditions of use. Operating within the extended operating range (but outside the normal range) will reduce battery service life. **Dimensions:** 7.0″H x 4.6″D x 7.6″W.

HOBO U30 NRC Data Logger with 5 Ports	5 lbs.	**89320**	**$418.00**
HOBO U30 NRC Data Logger with 10 Ports	5 lbs.	**89310**	**$457.00**
HOBOware Pro for Windows and Macintosh ▲	10 oz.	**89479**	**$99.00**

HOBO® U30 Shuttle

Offloads data from systems in the field for transfer to a host computer and preserves data in nonvolatile memory even if batteries are depleted. The shuttle can also be used to re-launch the logger, display logger status, and test individual Smart Sensors.

Non-Volatile Memory: 4 MB. **Logger-to-Shuttle Transfer Speed:** USB, 64K in approximately 30 seconds; Serial, 512K in approximately 60 seconds. **Shuttle-to-Host Transfer Speed:** Full shuttle offload (4 MB) to host computer in 3 to 5 minutes, depending on computer. **Power:** Main, 2 AA batteries; Clock Backup, 1 CR1225 lithium battery (3V). **Battery Life:** Main, one year or approximately 50 complete memory fills, typical use; Clock Backup, 10 years typical use (with main batteries installed). **Dimensions:** 4.35″ x 2.70″ x 1.05″.

HOBO U30 Shuttle	8 oz.	**89304**	**$281.00**

12-Bit Temperature Smart Sensor

This temperature sensor features selectable measurement-averaging to improve accuracy. Features a stainless steel sensor tip and rugged cable rated for immersion in water up to 50°C for up to one year. Use of a Solar Radiation Shield (89354, sold separately) is strongly recommended.

Range: -40°C to 100°C (-40°F to 212°F). **Accuracy:** ±0.2°C from 0°C to 50°C (±0.36°F from 32°F to 122°F). **Resolution:** ±0.03°C from 0°C to 50°C (±0.054° from 32°F to 122°F). **Drift:** ±0.1°C (±0.18°F) per year. **Response Time:** < 2.5 minutes typical to 90% in 1 m/sec airflow. **Sensor Dimensions:** 0.28″ x 1.5″.

12-Bit Temperature Smart Sensor with 2m Cable	4 oz.	**89312**	**$95.00**
12-Bit Temperature Smart Sensor with 6m Cable	7 oz.	**89313**	**$105.00**

12-Bit Temperature/Relative Humidity Smart Sensor

Measures temperature and relative humidity. All sensor parameters are stored inside the Smart Sensor, and configuration data information is communicated to the logger without any programming, calibration, or extensive setup needed. Use of a Solar Radiation Shield (89354, sold separately) is strongly recommended.

Range: Temperature, -40°C to 75°C (-40°F to 167°F); Relative Humidity, 0 to 100% RH at -40°C to 75°C (-40°F to 167°F), exposure to conditions below -20°C (-4°F) or above 95% RH may temporarily increase the maximum RH sensor error by an additional 1%. **Accuracy:** Temperature, ±0.2°C over 0°C to 50°C (0.36°F over 32°F to 122°F); Relative Humidity, ±2.5% from 10% to 90% RH (typical), to a maximum of ±3.5%. **Resolution:** Temperature, 0.02°C at 25°C (0.04°F at 77°F); RH, 0.1% RH at 25°C (77°F). **Drift:** Temperature, <0.1°C (0.18°F) per year; RH, <1% per year typical, hysteresis 1%. **Response Time:** Temperature, 5 minutes in air moving 1 m/sec; Relative Humidity, 10 minutes in air moving 1 m/sec with protective cap. **Environmental Rating Weatherproof:** 0 to 100% RH intermittent condensing environments. For best results, the Temp/RH Smart Sensor should be mounted inside a protective enclosure such as a Solar Radiation Shield (sold separately). **Sensor Dimensions:** 0.39″ x 1.39″.

12-Bit Temperature/RH Smart Sensor with 8m Cable	9 oz.	**89370**	**$195.00**

Barometric Pressure Smart Sensor

Measures barometric pressure over a wide range and utilizes measurement averaging to obtain the highest accuracy. The weatherproof housing allows for mounting outside the station enclosure. The station maintains its weatherproof seal without having to be vented to the atmosphere. Includes zip ties for mounting on a mast. Can also be mounted on a flat surface using screws.

Range: 660 mbar to 1,070 mbar (19.47 in. Hg to 31.55 in. Hg). **Accuracy:** ±3.0 mbar (0.088 in. Hg) over full pressure range at 25°C (77°F); maximum error of ±5.0 mbar (0.148 in. Hg) over -40°C to 70°C (-40°F to 158°F). **Resolution:** 0.1 mbar (.003 in. Hg). **Drift:** 1.0 mbar (0.03 in. Hg) per year. **Dimensions:** 2.5″ diameter x 2″H.

Barometric Pressure Smart Sensor	4 oz.	**89317**	**$249.00**

6.0 Watt Solar Panel

Designed for very cloudy locations, higher latitudes, and/or high data transfer requirements. **Dimensions:** 9.5″ x 9.5″.

6.0 Watt Solar Panel – 9.5″ x 9.5″	2 lbs.	**89311**	**$164.00**

Solar Radiation Shield

Protects external sensors from the effects of sunlight and rain to ensure high accuracy measurements. Designed to allow maximum air flow around the sensor, the shield provides 2.5 times faster response time to changing conditions. Works with Temperature and Temperature/Relative Humidity Smart Sensors. **Wind Resistance:** tested in sustained winds up to 80 mph, tested in gusts up to 100 mph. **Height:** 3.5″; 6.25″ with bracket.

Solar Radiation Shield	7 oz.	**89354**	**$65.00**

HOBO® Universal Weather Station Sensors

For use with HOBO U30 Data Logging Weather Stations and HOBO Micro Station Loggers.

Rain Gauge

Tipping bucket with a stainless steel shaft with brass bearings. Aluminum housing and collector.

Measurement range: 0 to 5″ per hour, maximum 4,000 tips per interval. **Calibration accuracy:** ±1.0% at up to 20mm/hour or up to 1″/hour. **Resolution:** 0.254mm or 0.01″. **Drift:** requires annual field calibration. **Cable length:** 2m. **Dimensions:** 9″H x 6″ dia.

Rain Gauge with 2m Cable	3 lbs.	**89372**	**$410.00**

10HS Soil Moisture Sensor

Measures a 1-liter volume of soil with ±3% accuracy in most soils.

10HS Soil Moisture Sensor	8 oz.	**89523**	**$139.00**

EC-5 Soil Moisture Sensor

Measures a 0.3 liter volume of soil with a ±3% accuracy in typical soil conditions.

EC-5 Soil Moisture Sensor	8 oz.	**89524**	**$139.00**

Solar Radiation Smart Sensor

Average light intensity over a user-set logging interval from a minimum of 1 second. Measurement range of 0 to 1280 W/m2 over a spectral range of 300 to 1100 nm.

Solar Radiation Smart Sensor	8 oz.	**89468**	**$210.00**

2-to-1 Smart Sensor Adapter (6 Conductor)

A UL-listed standard brown plastic six-pin adapter.

2-to-1 Smart Sensor Adapter (6 conductor)	1 oz.	**89467**	**$11.00**

Note: A radiation shield is strongly recommended when using these sensors in sunlight. All sensor cable lengths combined cannot exceed 100 meters.

▲ **Note:** Non-returnable if opened or seal is broken.

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HOBO® U30 Weather Station Starter Kit

2857

This convenient kit includes the rugged U30 NRC data logger that accepts up to 10 plug-and-play Smart Sensors. Three Smart Sensors are included (temperature/relative humidity, wind speed, and wind direction). Once a sensor is plugged in, it is automatically recognized. No additional programming, wiring, or calibration is needed! The kit also includes a 1.2 watt solar panel, a full crossarm for the wind speed/direction sensors, and a solar radiation shield for the temperature/relative humidity sensor. Use HOBOware® Pro software (sold separately) to analyze and plot weather data.

HOBO U30 Weather Station Starter Kit	18 lbs.	**89376**	**$1399.00**
HOBOware Pro for Windows and Macintosh	10 oz.	**89479**	**$99.00**

HOBO® Micro Station Data Logger

4179

Economical alternative to the HOBO Weather Station Logger

The Micro Station Data Logger is a smaller, more economical version of the full-size Weather Station Logger. Designed to fit into tight spaces, it is ideal for applications requiring multi-channel monitoring of microclimates in one or more locations. The Micro Station can be configured with up to 4 plug-in smart sensors (sold separately) for research-grade measurements. Operates up to one year on four AA batteries. **Number of Data Channels:** 4 smart sensor inputs (maximum 15 parameters).

HOBO Micro Station Data Logger	2 lbs.	**89382**	**$231.00**
HOBO Micro Station Mast Mounting Kit	14 oz.	**89393**	**$22.00**

HOBO® Weather Station Logger Sensors

Temperature/RH Sensor

Requires protection from rain or direct splashing.
Use of a radiation shield is strongly recommended.

Measurement ranges: -40°C to 75°C (-40°F to 167°F); 0 to 100% RH between 0°C and 50°C. **Accuracy:** ±0.7°C at 25°C; ±3% RH over the range of 0°C to 50°C; ±4% in intermittent condensing environments under 30°C. **Resolution:** 0.4°C at 25°C; 0.5% RH at 25°C. **Drift:** ±1% RH per year; <0.1°C temp per year. **Response time:** temp, 8 minutes typical; RH, 5 minutes typical in 2m/sec moving airflow. **Housing:** stainless steel. **Dimensions:** 5/8″ x 4″.

12-Bit Temperature/RH Smart Sensor with 2m Cable	6 oz.	**89369**	**$189.00**
12-Bit Temperature/RH Smart Sensor with 8m Cable	9 oz.	**89370**	**$195.00**
Radiation Shield – recommended for temperature and RH measurement accuracy in locations exposed to direct or reflected solar radiation	4 lbs.	**89380**	**$116.00**

▲ **Note:** Non-returnable if opened or seal is broken.
Ⓧ Items 60″ or more require an additional handling charge.

HOBO® Weather Station Logger Accessories

Complete 2 Meter Tripod Kit - Includes a 2-Meter Tripod, grounding kit, guy wire kit, 1/2″ stake kit for guy wires, 1/4″ stake kit for tripod and mast level.	32 lbs.	**89388**	**$200.00**
Complete 3 Meter Tripod Kit - Accommodates moderately sloping terrain and includes a 3-Meter Tripod, a grounding kit, a guy wire kit, 1/2″ stake kit, and mast level. Ⓧ	45 lbs.	**89387**	**$292.00**
Rain Gauge with 2m Cable	3 lbs.	**89372**	**$410.00**
2m Tripod Tower Assembly; 2m H, footprint is equilateral triangle 20″ radius	14 lbs.	**89379**	**$61.00**
2m Cable with Weatherproof Connector	2 oz.	**89465**	**$33.00**
Grounding Kit	7 lbs.	**89461**	**$50.00**
Half Crossarm, 19.2″ x 1-1/4″	1 lb.	**89463**	**$50.00**
AA cell Alkaline Batteries, pack of 4	7 oz.	**02352**	**$3.25**
AA cell Lithium Batteries, 4 pack	3 oz.	**02150**	**$13.95**
		6+	**$12.75**
HOBOware Pro for Windows and Macintosh ▲	10 oz.	**89479**	**$99.00**
PC Cable - Required for use when HOBOware Pro is used with HOBO Weather Station Logger or HOBO Micro Station Data Logger	2 oz.	**89416**	**$20.00**
Dessicant, Pack of 25	1 oz.	**89455**	**$13.00**

HOBO® Universal Weather Station Sensors

For use with HOBO U30 Data Logging Weather Stations and HOBO Micro Station Loggers.

PAR Sensor

Features anodized aluminum housing with acrylic diffuse and o-ring seal. A light sensor bracket (sold separately) is recommended for use with the PAR sensor.

Parameters: average over logging interval, user-defined sampling interval from 1 second. **Measurement range:** 0 to 2,500 umol/m2/sec, wavelengths 400 to 700 nm. **Accuracy:** ±5 umol/m2/sec or ±5%, whichever is greater in sunlight. Additional temperature induced error ±0.75 umol/m2/sec/degree C from 25°C. Cosine corrected 0 to 80 degrees; Azimuth error < 2% error at 45 degrees, 360 degree rotation. **Resolution:** 2.5 umol/m2/sec. **Drift:** <±2% per year. **Cable length:** 3m. **Dimensions:** 1-5/8″H x 1-1/4″ dia.

PAR Sensor	8 oz.	**89373**	**$220.00**
Light Sensor Bracket; 15″ out, 9″ up	1 lb.	**89374**	**$32.00**
Light Sensor Level	1 oz.	**89375**	**$39.00**

Wind Speed and Direction Smart Sensor Set

Three-cup Lexan anemometer with Teflon bearings and hardened beryllium shaft. Requires cross arm mount.

Parameters: average wind speed, highest 3 second wind gust, average wind direction (unit vector average). **Measurement Range:** Wind Speed/Gust, 0 to 45 m/s (0 to 100 mph); Wind Direction, 0 to 355°, 5° dead band. **Maximum Wind Speed Survival:** Wind Speed/Gust, 54 m/s (120 mph); Wind Direction, 60 m/s (134 mph). **Accuracy:** Wind Speed/Gust, ±1.1 m/s (±2.4 mph) or ±4% of reading, whichever is greater; Wind Direction, ±5°. **Resolution:** Wind Speed/Gust, 0.38 m/s (0.85 mph); Wind Direction, 1.4°. **Starting Threshold:** Wind Speed/Gust, 1.0 m/s (2.2 mph); Wind Direction, 1.0 m/s (2.2 mph). **Distance Constant:** Wind Speed/Gust, approx. 3m (9.8′); Wind Direction, 0.8m (2.6′). **Cable Length:** 3m (9.8′). **Operating Temperature Range:** -40°F to 167°F (-40°C to 75°C).

Wind Speed and Direction Smart Sensor Set	4 lbs.	**89381**	**$560.00**

Note: A radiation shield is strongly recommended when using these sensors in sunlight.
All sensor cable lengths combined cannot exceed 100 meters.

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Davis® Vantage Pro2™ Weather Station

3897

Multi-function display, forecasting, and on-screen graphing.

Provides detailed current weather conditions and expanded forecasts - all at a glance! The Vantage Pro2 uses a frequency-hopping spread spectrum radio from 902 MHz to 928 MHz to transmit and receive data up to 1,000´ (300m) line of sight. In addition, the weather station features a bubble level, improved anemometer base, redesigned wind cups, and factory-calibrated wind direction. The integrated sensor suite combines temperature and humidity sensors, rain collector with an aluminum-plated tipping bucket, and anemometer into one package for easy setup. Measure inside and outside temperature and humidity, heat index, barometric pressure, dew point, rainfall, wind direction and speed, and wind chill. Use the buttons on the weather station's console to easily navigate through often-used functions. One portion of the 3-1/2˝ x 6˝ LCD display provides the most important weather variables at all times. A variable portion of the display allows you to choose what is displayed from several pre-determined options. View over 80 graphs, including in-depth analysis of temperature, rain, rain rate, wind, and barometric pressure. Forecast icons let you know what type of weather to expect, and a ticker-tape display provides expanded forecast details. Use the optional solar radiation sensor to measure solar radiation and monitor evapotranspiration (along with an anemometer and temperature/humidity sensor). WeatherLink software for Vantage Pro2 (sold separately) allows you to collect, analyze, and display weather data and transfer data to your PC; and an optional Agricultural/Turf Management Software Module (sold separately) provides specialized reports for farmers, growers, and turf managers according to the individual's needs with a user-defined 24-hour period and growing season.

Cabled – Includes a console, AC-power adapter, integrated sensor suite with 40´ (12m) anemometer cable, mounting hardware, and a 100´ (30m) cable connecting the console to the integrated sensor suite. The optional solar power kits transform your weather station into a stand-alone outdoor system and include a solar panel, regulator circuit, and rechargeable battery.

Cabled Vantage Pro2 Weather Station	C	12 lbs.	**94502**	**$479.00**
			2+	**$445.50**
Additional Console for Vantage Pro2		2 lbs.	**94504**	**$295.00**
			2+	**$266.00**

Wireless – Includes a console/receiver, integrated sensor suite with transmitter, solar panel, 40´ (12m) anemometer cable, and mounting hardware. Additional console/receivers (sold separately) can be used to view data from several locations. An optional wireless repeater with solar power can be used for improved reception. Depending on terrain, transmitting and receiving ranges are 100´ to 1,000´ (30 m to 300 m) for each repeater. The optional solar power kit transforms your weather station into a stand-alone outdoor system, and includes a solar panel, a regulator circuit, and a rechargeable battery.

You can even build your own custom weather station using individual wireless stations. Choose a wireless temperature station, a wireless temperature/humidity station, a wireless soil moisture/temperature station, a wireless leaf and soil moisture/temperature station, or the solar-powered complete wireless soil moisture/temperature station. Each component sold separately.

When using the wireless leaf and soil moisture/temperature station, you can add up to 2 leaf wetness sensors, 4 soil moisture sensors, and/or 4 temperature probes. Sensors and probes sold separately. Data can be viewed on the Vantage Pro2 console/receiver, or you can add additional wireless stations or console/receivers to a complete wireless Vantage Pro2 station. As many as 8 transmitters can report to a single console, and an unlimited number of consoles can receive data from a single transmitter. Wireless consoles operate up to 9 months on 3 C-cell batteries.

Wireless Vantage Pro2 Weather Station	C	11 lbs.	**94503**	**$575.00**
			2+	**$535.50**

Note: To create a system equivalent to the Davis® GroWeather™ Weather System, you should purchase the following stock numbers: 94503, 94606, 94607, 94545, 94564, and 94565.

Specifications

Resolution: Barometric pressure: 0.01˝Hg, (0.1 hPa/mb). **Barometric trend:** change ≥ 0.06˝Hg = rapidly; change 0.02˝Hg = slowly. **Inside and outside humidity:** 1%. **Dew point (overall) and frost/dew point at high humidity:** 1°F (1°C). **Daily and storm rainfall:** 0.01˝(0.2 mm). **Monthly and yearly rainfall and rain rate:** 0.01˝(0.2 mm to 1,999.9mm; 1 mm above). **Inside and outside temperature:** 0.1°F (0.1°C). **Heat index:** 1°F (1°C). **Wind direction:** 1°. **Compass rose:** 22.5°. **Wind speed:** 1 mph, 1 km/h, 0.4 m/s, or 1 knot. **Wind chill:** 1°F (1°C).

Range: Barometric pressure: 16.00˝ to 32.50˝ Hg (410 to 820 mm Hg, 540 to 1100 hPa/mb). **Barometric trend: 5 position arrow:** Rising (rapidly or slowly), Steady, or Falling (rapidly or slowly). **Inside humidity:** 1 to 100% RH. **Outside humidity:** 1 to 100% RH. **Dew point (overall) and frost/dew point at high humidity:** -105° to +130°F (-76° to +54°C). **Daily and storm rainfall:** 0 to 99.99˝(0 to 999.8 mm). **Monthly and yearly rainfall:** 0 to 199.99˝(0 to 6553 mm). **Rain rate:** 0 to 96˝(0 to 2438 mm). **Outside temperature:** -40° to +150°F (-40° to +65°C). **Wind direction:** 0 - 360°. **Compass rose:** 16 points (22.5°). **Wind speed:** 2 to 180 mph, 2 to 156 knots, 1 to 80 m/s, 3 to 290 km/h. **Wind chill:** -110° to +135°F (-79° to +57°C). **Solar radiation sensor:** 0 to 1800 W/m2. **Wireless signal distance:** 1,000´ line of sight.

Accuracy (±): Barometric pressure: ±0.03˝Hg (±0.8 mm Hg, ±1.0 hPa/mb). **Inside humidity:** ±3% (0 to 90% RH), ±4% (90 to 100% RH). **Outside humidity:** ±3% (0 to 90% RH), ±4% (90 to 100% RH). **Dew point (overall):** ±3°F (±1.5°C). **Daily, storm, monthly, and yearly rainfall:** ±4%. **Rain rate:** ±4%. **Inside and outside temperature:** ±3% (0 to 90% RH), ±4% (90 to 100% RH). **Heat index:** ±3°F (±1.5°C). **Wind direction:** ±3°. **Compass rose:** 0.3 comp. pt. **Wind speed:** ±2 mph (2 kts, 3 km/h, 1 m/s) or ±5%, whichever is greater. **Wind chill:** ±2°F (±1°C).

Accessories

Solar Radiation Sensor		6 oz.	**94606**	**$160.00**
Sensor Mounting Shelf – for mounting solar radiation sensor		8 oz.	**94607**	**$30.00**
Wireless Temperature Station – stainless steel temperature probe with 12´ (3.6m) cable, transmitter, and lithium battery inside a weather-resistant shelter		2 lbs.	**94536**	**$185.00**
Wireless Temperature/Humidity Station – temperature/humidity sensor and transmitter inside a radiation shield. Battery included.		5 lbs.	**94537**	**$238.00**
Wireless Leaf Wetness and Soil Moisture/Temperature Station (Sensors and probes for use with station sold separately.)		2 lbs.	**94544**	**$219.00**
Complete Wireless Soil Moisture/Temperature Station - a transmitter and battery inside a weather-resistant shelter, four soil moisture sensors, and four temperature probes.		4 lbs.	**94564**	**$535.50**
Soil Moisture Sensor with 5´ cable	C	3 oz.	**77382**	**$38.75**
			10+	**$35.25**

C Combination English and Metric

Multi-Purpose Temperature Probe with rugged stainless steel housing for direct burial, for use with 94544		5 oz.	**94611**	**$50.00**
Leaf Wetness Sensor – for use with 94544		15 oz.	**94613**	**$125.00**
WeatherLink Software – for PC data collection and manipulation	R	8 oz.	**94545**	**$165.00**
			3+	**$149.00**
WeatherLinkIP for Vantage Pro2 – allows weather data to be posted directly to the Internet	R	9 oz.	**94540**	**$285.00**
Agricultural Turf Management Software Module	R	4 oz.	**94565**	**$95.00**
Solar Power Wireless Repeater		2 lbs.	**94546**	**$245.00**
Solar Power Kit for Wireless Vantage Pro2 Weather Station		3 lbs.	**94523**	**$143.00**
Mounting Tripod		13 lbs.	**94553**	**$75.00**
Radiation Shield, Protects sensor from solar or radiant heat		3 lbs.	**94563**	**$67.50**
New! Universal Weather Station Shelter, Weather-resistant shelter protects your console and other components from the elements.		4 lbs.	**94543**	**$75.00**

R Non-returnable if opened

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Davis® Vantage Vue™ Wireless Weather Station

7314

Displays indoor and outdoor temperature and humidity, barometric pressure, wind speed, wind direction, rainfall, and more! Frequency-hopping spread spectrum radio technology wirelessly sends data up to 1,000 feet (300 m) away and provides updates from the outdoor integrated sensor suite to the indoor console every 2.5 seconds. The indoor console features 50 on-screen graphs for comparing current and past weather, 22 alarms to warn of weather dangers, a glow-in-the-dark keypad, and a backlit LCD screen. Sealed electronics in the sensor suite provide excellent protection against the elements. Use the optional WeatherLink® software (sold separately) for extensive weather analysis and data storage.

Temperature – Range: Inside Temperature, +32° to +140°F (0° to +60°C); Outside Temperature, -40° to +150°F (-40° to +65°C); **Resolution:** Current Data, 0.1° or 1°; Historical Data and Alarms, 1°. **Accuracy:** Inside Temperature, ±1°F (±0.5°C); Outside Temperature, ±1°F (±0.5°C) above +20°F (-7°C); ±2°F (±1°C) under +20°F (-7°C). **Humidity (Inside and Outside) – Range:** 1 to 100% RH. **Resolution:** 1%. **Accuracy:** ±3% (0 to 90% RH), ±4% (90 to 100% RH). **Barometric Pressure - Range:** 16.00″ to 32.50″ Hg, 410 to 820 mm Hg, 540 to 1100.0 hPa/mb. **Resolution:** 0.01″ Hg, 0.1 mm Hg, 0.1 hPa/mb. **Accuracy:** ±0.03″ Hg (±0.8 mm Hg, ±1.0 hPa/mb). **Wind Speed – Range:** 2 to 180 mph, 2 to 156 knots, 1 to 80 m/s, 3 to 290 km/h. **Resolution:** 1 mph, 1 km/h, 0.5 m/s, or 1 knot. **Accuracy:** ±2 mph (2 kts, 3 km/h, 1 m/s) or ±5%, whichever is greater. **Wind Direction - Range:** 0-360°. **Resolution:** 16 points (22.5°) on compass rose. **Accuracy:** ±3°. **Wind Chill - Range:** -110° to +135°F (-79° to +57°C). **Resolution:** 1°. **Accuracy:** ±2°F (±1°C). **Rainfall - Range:** 0 to 199.99″ (0 to 6553 mm). **Resolution:** 0.01″ or 0.2 mm. **Accuracy:** Greater of 4% or 1 tip. **Dimensions - Integrated Sensor Suite:** 12.95″ x 5.75″ x 13.40″; **Console (with antenna):** 7.5″ x 5.75″ x 4.5″.

Davis Vantage Vue Wireless Weather Station	C	7 lbs.	**94518**	**$355.50**
WeatherLink Software – for PC data collection and manipulation	R	8 oz.	**94545**	**$165.00**
			3+	**$149.00**
WeatherLinkIP for Vantage Pro2	R	9 oz.	**94540**	**$285.00**

Options and Accessories For All Davis® Weather Stations

7314

Radiation Shield

Protects temperature sensor from solar or other sources of radiant heat

Radiation Shield	3 lbs.	**94563**	**$67.50**

New! Universal Weather Station Shelter

Weather-resistant shelter protects your weather station console and other components from the elements.

Universal Weather Station Shelter	4 lbs.	**94543**	**$75.00**

Mounting Tripod

For easy installation of sensor/transmitter. Brackets at the base of each leg tilt to match roof's pitch or uneven terrain.

Mounting Tripod	13 lbs.	**94553**	**$75.00**

WeatherHawk™ Weather Stations

Designed for easy installation and use! This industrial grade, fully assembled weather station measures wind speed and direction, air temperature, relative humidity, barometric pressure, solar radiation, rainfall, and ETo (evapotranspiration). The included WeatherHawk XP/X software allows for sophisticated data management and operates on PC-XP or Macintosh OS-X. Choose from wired (direct connect, serial cable included) or wireless models. The wireless model features on-board 916 MHz spread spectrum radio communications for transmitting to a remote PC/Mac up to 1/2 mile line of sight.

WeatherHawk™ ET Weather Station

7596

Weather station, solar panel kit (for use in lieu of a DC power supply), and software included with both models.

Wired ET Weather Station	O	18 lbs.	**89498**	**$2274.00**
Wireless ET Weather Station	O	18 lbs.	**89499**	**$2946.00**

WeatherHawk™ GLOBE Weather Station

7595

This GLOBE approved weather station is designed for use by both educators and students. WeatherHawk data is automatically formatted for transmission to the GLOBE program. The wired model includes the weather station, a 50′ weatherproof RS232 cable, a powered optical isolator, an AC power converter with 50′ extension cable, and WeatherHawk IP server module. The wireless model includes the wireless weather station, solar panel kit, and WeatherHawk IP server module.

Wired GLOBE Weather Station	O	18 lbs.	**89500**	**$3067.00**
Wireless GLOBE Weather Station	O	19 lbs.	**89501**	**$3417.00**

Specifications for WeatherHawk ET and WeatherHawk GLOBE Stations

Sensors – Wind Speed: Sensor, Cup anemometer; Starting Threshold, 0.78 m s-1 (1.75 mph). **Wind Direction:** Sensor, Vane; Range, 360° mechanical, 352° electrical; Linearity, 1%; Sensitivity, 1 m s-1 (2.2 mph). **Air Temperature:** Sensor, Thermistor; Operating Range, -40°F to 122°F (-40°C to 50°C) 0 to 100% RH; Accuracy, ±0.9°F (±0.5°C); Interchangeability, ±0.36°F (±0.2°C). **Relative Humidity:** Sensor, Precision temperature corrected bulk polymer; Accuracy, ±5% for 90% to 100% RH and ±3% for 10% to 95% RH. **Barometric Pressure:** Sensor, Piezoresistive transducer; Range, 15 to 115 kPa (4.43 to 33.96 inches of Mercury); Accuracy, < ±1.5% of full scale reading ±1.5 kPa (0° to 85°C) ±0.443 Hg. **Solar Radiation:** Sensor, Silicon pyranometer; Spectral Range, 300 to 1,100 nm; Accuracy, ±2.5%; Output, 0.25 mV per W m-2; Operational Range, 0 to 2,000 W m-2; Temperature Range, -40°F to 130°F (-40°C to 55°C). **Rain Gauge:** Sensor, Tipping bucket; Orifice, 7.75 in2 (50 cm2); Resolution, 0.04″ (1 mm). **Weather Station – Temperature Range:** -40°F to 122°F (-40°C to 50°C). **Storage:** 128 kbytes of nonvolatile Flash RAM (32,000 data points). **Battery:** On-board, 0.8 Ahr lead-acid. **Solar Panel:** 5 watt.

Accessories for WeatherHawk ET and WeatherHawk GLOBE Stations

Complete Tripod Kit and Mast – Includes tripod/mast assembly (1 mast segment and a roof mount kit), 2 mast extensions, guy-wire kit, stake kit, and grounding kit	O	24 lbs.	**89502**	**$285.00**
Non-Penetrating Tripod/Mast Mount with One Mast Extension – For installations where the tripod cannot be permanently attached to the support surface	O	11 lbs.	**89503**	**$219.00**
J Mount and 3′ Extension – Use to mount the weather station on the side of a building	O	7 lbs.	**89504**	**$64.00**
Optional Extended Life Battery – Recommended for use with the wireless weather station in areas that experience sub-freezing temperatures and low winter sun angles or short solar days		8 lbs.	**89505**	**$245.00**

C Combination English and Metric

O Ships at Oversize rate. See Shipping Information for details.

R Non-returnable if opened

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Kestrel® 4500 Pocket Weather Tracker

8279

Measures wind speed and direction.

Using a built-in digital compass, the Kestrel 4500 measures wind direction in addition to wind speed and effective crosswind, headwind, and tailwind. Simply point the instrument in the direction of the wind to instantly obtain wind speed and wind direction in degrees and cardinal compass points. Readings can be stored in the 2,000 data-set memory. Combine the Kestrel 4500 with a portable vane mount and portable tripod (each sold separately) for a data-logging weather station that rotates in even the slightest breeze and is ideal for short-term monitoring. Measurements are shown on the backlit display. Easily customize screens to display user-selected measurements as well as graph and recall trends. Waterproof, floats and includes a protective pouch, neck and wrist lanyards, and 2 AAA batteries. Five-year manufacturer's warranty. Assembled in the USA.

Minimum wind speed: 0.8 mph (0.6 knots, 1.0 km/h, 0.4 m/s, or 59 fpm). **Maximum wind speed:** 89.0 mph (78.0 knots, 144 km/h, 40.0 m/s, or 7,877 fpm). **Wind speed accuracy:** ±3%. **Wind direction accuracy:** ±5°. **Update:** 1 second. **Temperature and wind chill accuracy:** ±1°C. **Wind chill factor resolution:** ±0.1°C. **Relative humidity accuracy:** ±3% from 5% to 95%. **Dew point temperature accuracy:** ±2°C. **Heat index accuracy:** ±2°C*. **Temperature resolution:** ±0.1°F (±0.1°C). **Barometric pressure accuracy:** ±1.5 hPa/mb (at 25.0°C, <6,000 m). **Altitude range:** at 77.0°F, <19,700′, max error ±98′ (at 25.0°C, <6,000 m, max error ±30 m). **Density altitude range:** 32.0°F to 100.0°F, 5.0 to 95.0% RH, 8.86 to 32.48 inHg, <19,700′ (0.0°C to 37.8°C, 5.0 to 95.0% RH, -2,000 to 9,000 hPa, <6,000 m). **Operating temperature:** -4°F to +140°F (-20°C to +60°C). **Temperature range†:** -20°F to +158°F (-29°C to +70°C). Accurate readings can be taken by keeping the unit warmer than -4°F (-20°C) and exposing it for the minimum time necessary (less than one minute) to take a reading. **Impeller:** 1″ diameter, sapphire bearings, lightweight. **Temperature sensor:** hermetically sealed precision thermistor. **Humidity sensor:** polymer capacitive sensor. **Display:** graphical backlit LCD. **Sealing:** electronics enclosure IP67 water resistant to 3 ft., Floats. **Battery:** two AAA alkaline batteries (included). **Battery life:** 400 hrs. **Dimensions:** 5″ x 1.8″ x 1.1″.

Kestrel 4500 Pocket Weather Tracker 7 oz.	C	89545	$299.00
Kestrel 4500 with Bluetooth 7 oz.	C	89133	$389.00

*Humidity sensor can be recalibrated in the field.
†Accurate readings may be taken beyond these temp limits by exposing the unit for the minimum time necessary to take and record measurements.

Kestrel® 4400 Heat Stress Tracker

4822

Provides vital heat stress information to work safely in hot conditions. Calculates Wet Bulb Globe Temperature, the most common composite measurement in determining exposure levels during heat stress conditions. On-screen alarms when conditions enter the caution and danger zones. Measures naturally aspirated wet bulb temperature, globe temperature, wind speed, temperature (°F/°C), wind chill, relative humidity, heat stress index, dew point temperature, wet bulb temperature, barometric pressure, altitude, and density altitude. Combine with a portable vane mount (included) and a portable tripod (sold separately) for a data-logging weather station that rotates in the slightest breeze. Backlit display, and customized user screens group key measurements. Waterproof (IP67 standard) and floats. Includes a protective transport case, protective pouch, portable vane mount, and 2 AAA batteries. Assembled in the USA.

Minimum wind speed: 0.7 mph (0.6 knots, 1 km/h, 0.3 m/s, or 59 fpm). **Maximum wind speed:** 89 mph (78 knots, 144 km/h, 40 m/s, or 7,877 fpm). **Wind speed accuracy:** ±3%. **Update:** 1 second. **Thermal work limit accuracy:** ±10.9 W/m2. **Outdoor wet bulb globe temp.:** ±1.3°F (0.7°C). **Wet bulb temp. (Naturally aspirated):** ±1.4°F (0.8°C). **Wet bulb temp. (Psychrometric):** ±3.2°F (1.8°C). **Temp. and wind chill accuracy:** ±1°C. **Wind chill factor resolution:** ±1°C. **Relative humidity accuracy:** ±3% from 5% to 95%. **Dew point temp. accuracy:** ±2°C. **Heat index accuracy:** ±3°C*. **Temp. resolution:** ±0.1°F (±0.1°C). **Barometric pressure accuracy:** ±3hPa (between -10°C and 60°C). **Altitude range:** at 77.0°F, <19,700′, max error ±98′ (at 25.0°C, <6,000 m, max error ±30 m). **Density altitude range:** 32.0°F to 100.0°F, 5.0 to 95.0% RH, 8.86 to 32.48 inHg, <19,700′ (0.0°C to 37.8°C, 5.0 to 95.0% RH, -2,000 to 9,000 hPa, <6,000 m). **Operating temp.:** -4°F to +140°F (-20°C to +60°C). **Temp. range†:** -20°F to +158°F (-29°C to +70°C). Accurate readings can be taken by keeping the unit warmer than -4°F (-20°C) and exposing it for the minimum time necessary (less than one minute) to take a reading. **Impeller:** 1″ diameter, sapphire bearings, lightweight. **Temp. sensor:** hermetically sealed precision thermistor. **Humidity sensor:** solid state silicon capacitive sensor. **Display:** graphical backlit LCD. **Sealing:** electronics enclosure IP67 water resistant to 3 ft., Floats. **Battery:** two AAA alkaline batteries (included). **Battery life:** 400 hrs. **Dimensions:** 6.5″ x 2.3″ x 1.1″.

Kestrel 4400 Heat Stress Tracker 12 oz.	C	89176	$759.00

Kestrel® 4000 Pocket Weather™ Tracker™

7138

Using chart mode, recall and graph up to 250 measurements, along with storage times and dates. Measurements are stored manually at the touch of a button or automatically when the unit is turned off. Customize screens so that only selected measurements are displayed. A durable hard cover protects the impeller while allowing other functions to be used. Combine the Kestrel 4000 with a portable vane mount and portable tripod (each sold separately) for a data-logging weather station that rotates in even the slightest breeze and is ideal for short-term monitoring. This versatile, waterproof instrument floats, features an easy-to-read backlit display, and has an auto shutdown feature which activates after 15 minutes without a button press (feature can be disabled). Neck and wrist lanyards, protective pouch, and 2 AAA batteries included. Five-year manufacturer's warranty.

Minimum wind speed: 0.7 mph (0.6 knots, 1 km/h, 0.3 m/s, or 59 fpm). **Maximum wind speed:** 89 mph (78 knots, 144 km/h, 40 m/s, or 7,877 fpm). **Wind speed accuracy:** ±3%. **Update:** 1 second. **Temperature and wind chill accuracy:** ±1°C. **Wind chill factor resolution:** ±1°C. **Relative humidity accuracy:** ±3% from 5% to 95%. **Dew point temperature accuracy:** ±2°C. **Heat index accuracy:** ±3°C*. **Temperature resolution:** ±0.1°F (±0.1°C). **Barometric pressure accuracy:** ±3hPa (between -10°C and 60°C). **Altitude and density altitude range:** -1,638 ft. to 27,420 ft. (-500 m to 9,000 m). **Operating temperature:** -4°F to +140°F (-20°C to +60°C). **Temperature range†:** -20°F to +158°F (-29°C to +70°C). Accurate readings can be taken by keeping the unit warmer than -4°F (-20°C) and exposing it for the minimum time necessary (less than one minute) to take a reading. **Impeller:** 1″ diameter, sapphire bearings, lightweight. **Temperature sensor:** hermetically sealed precision thermistor. **Humidity sensor:** solid state silicon capacitive sensor. **Display:** graphical backlit LCD. **Sealing:** electronics enclosure IP67 water resistant to 3 ft., Floats. **Battery:** two AAA alkaline batteries (included). **Battery life:** 300 hrs. **Dimensions:** 5″ x 1.8″ x 1.1″.

Kestrel 4000 Pocket Weather Tracker 7 oz.	C	89184	$249.00
Kestrel 4000 Hi-Viz Orange 7 oz.	C	89284	$249.00
Kestrel 4000 with Bluetooth, Safety Orange 6 oz.	C	89229	$339.00
Kestrel 4000, Night Vision Model 7 oz.	C	89196	$259.00

Kestrel® 3500 Pocket Weather Meter

3804

Measures barometric pressure, altitude, temperature, humidity, wind speed, wind chill, dew point, wet bulb, and heat index. Measure current, maximum, and average wind speed in meters per second, kilometers per hour, miles per hour, feet per minute, knots, or Beaufort Force. Temperature, wind chill, heat stress, and dew point are shown in °C or °F. Relative humidity is displayed as a percentage. Pressure is measured in hPa or inHg. Altitude is displayed in feet or meters. Large backlit display. An innovative thermally-adjusted humidity sensor provides stable, accurate measurements even during abrupt condition changes. Includes a real-time clock, hold function, quick response external thermistor, a high precision pressure sensor, and a user-replaceable impeller. Housed in a waterproof body that floats, features a protective cover with sure-grip overmolding. Lanyard and battery included. Five-year manufacturer's warranty.

Minimum wind speed: 0.7 mph (0.6 knots, 1 km/h, 0.3 m/s, or 59 fpm). **Maximum wind speed:** 89 mph (78 knots, 144 km/h, 40 m/s, or 7,877 fpm). **Wind speed accuracy:** ±3%. **Update:** 1 second. **Temperature, wind chill, heat stress, and dew point range†:** -20°F to +158°F (-29°C to +70°C). **Temperature, wind chill, heat stress, and dew point accuracy:** ±2°F (±1°C). **Temperature resolution:** ±0.1°F (±0.1°C). **Wind chill factor resolution:** ±1°C. **Relative humidity range:** 5% to 95%. **Relative humidity accuracy:** ±3% from 5% to 95%. **Barometric pressure range:** 870.0 hPa to 1,080.0 hPa (25.70 inHg to 31.90 inHg). **Barometric pressure accuracy:** ±3hPa. **Altitude range:** -1,500 ft. to 30,000 ft. (-500 m to 9,000 m). **Altitude accuracy:** ±30 meters (at standard atmospheric conditions). **Operating temperature:** 5°F to +122°F (-15°C to +50°C). **Storage temperature range:** -4°F to +176°F (-20°C to +80°C). **Impeller:** 1″ diameter, sapphire bearings, lightweight. **Temperature sensor:** hermetically sealed precision thermistor. **Humidity sensor:** solid state silicon capacitive sensor. **Pressure sensor:** monolithic silicon piezoreisitive sensor. **Display:** reflective 3-1/2 digit backlit LCD. **Sealing:** electronics enclosure IP67 water resistant to 3 ft. Floats. **Battery:** user-replaceable CR2032 coin cell battery (included) with a typical life of 400 hours. **Dimensions:** 4.8″ x 1.7″ x 0.8″.

Kestrel 3500 Pocket Weather Meter 6 oz.	C	89254	$194.00
Kestrel 3500, Night Vision Model 6 oz.	C	89190	$199.00

C Combination English and Metric

[search engine powered by magazooms.com]

Kestrel Weather & Environmental Meters by NK

5 Manufacturer's Warranty 5 Year

Kestrel® 3000 Pocket Weather Station

6566

Measures wind speed, temperature, wind chill, relative humidity, heat index and dew point temperature.

Tracks maximum and average wind speeds along with current readings. Displays wind speed in knots, meters per second, kilometers per hour, miles per hour, feet per minute or Beaufort force. Temperature, wind chill, heat index and dew point temperature can be displayed in °C or °F. Relative humidity is expressed as a percentage. Measuring modes and display units can be changed at any time and all functions are controlled with two buttons. A hard, slip-on ergonomic case protects the display, buttons and impeller. 5-year manufacturer's warranty.

Minimum wind speed: 0.7 mph (0.6 knots, 1 km/h, 0.3 m/s, or 60 fpm). **Maximum wind speed:** 89 mph (78 knots, 144 km/h, 40 m/s, or 7,830 fpm). **Wind speed accuracy:** ±3%. **Update:** 1 second. **Temperature and wind chill accuracy:** ±1°C. **Wind chill factor resolution:** ±1°C. **Relative humidity accuracy:** ±3% from 5% to 95%. **Dew point temperature accuracy:** ±2°C. **Heat index accuracy:** ±3°C. Humidity sensor can be recalibrated in the field. **Temperature resolution:** ±0.1°F (±0.1°C). **Operating temperature:** -4°F to +140°F (-20°C to +60°C). **Temperature range†:** -20°F to +158°F (-29°C to +70°C). **Impeller:** 1″ diameter, sapphire bearings, light weight. **Temperature sensor:** hermetically sealed precision thermistor. **Humidity sensor:** silicon based capacitive sensor. **Display:** reflective 3-1/2 digit backlit LCD. **Sealing:** electronics enclosure IP67 – water resistant to 3 ft. Floats. **Battery:** user-replaceable CR2032 coin cell battery (included) with a typical life of 400 hours. **Dimensions:** 4.8″ x 1.7″ x 0.6″.

Kestrel 3000
6 oz. C **89183** **$149.00**

Kestrel® 2500 Pocket Weather Meter

3803

In addition to taking wind speed and temperature measurements, the Kestrel 2500 also measures altitude and barometric pressure. The three-hour pressure trend function allows you to forecast weather conditions. The meter also features a real-time clock, data hold function, automatic shutoff after 45 minutes, large backlit display, a quick response external thermistor, and a user-replaceable impeller. The meter is waterproof, floats, and features a protective cover with sure-grip overmolding. Lanyard and battery included. Five-year manufacturer's warranty.

Minimum wind speed: 0.7 mph (0.6 knots, 1 km/h, 0.3 m/s, or 60 fpm). **Maximum wind speed:** 89 mph (78 knots, 144 km/h, 40 m/s, or 7,830 fpm). **Wind speed accuracy:** ±3%. **Update:** 1 second. **Temperature, wind chill, heat stress, and dew point range†:** -20°F to +158°F (-29°C to +70°C). **Temperature, wind chill, heat stress, and dew point accuracy:** ±2°F (±1°C). **Temperature resolution:** ±0.1°F (±0.1°C). **Wind chill factor resolution:** ±1°C. **Barometric pressure range:** 870.0 hPa to 1,080.0 hPa (25.70 inHg to 31.90 inHg). **Barometric pressure accuracy:** ±3 hPa. **Altitude range:** -1,500 ft. to 30,000 ft. (-500 m to 9,000 m). **Altitude accuracy:** ±30 meters (at standard atmospheric conditions). **Operating temperature:** 5°F to +122°F (-15°C to +50°C). **Storage temperature range:** -4°F to +176°F (-20°C to +80°C). **Impeller:** 1″ diameter, sapphire bearings, lightweight. **Temperature sensor:** hermetically sealed precision thermistor. **Pressure sensor:** monolithic silicon piezoreisitive sensor. **Display:** reflective 3-1/2 digit backlit LCD. **Sealing:** electronics enclosure IP67 – water resistant to 3 ft. Floats. **Battery:** user-replaceable CR2032 coin cell battery (included) with a typical life of 400 hours. **Dimensions:** 4.8″ x 1.7″ x 0.8″.

Kestrel 2500 Pocket Weather Meter
6 oz. C **89253** **$149.00**

Kestrel® 2000 Pocket Wind Meter Plus

5466

Tracks maximum and average wind speeds along with current readings plus displays wind speed in knots, meters per second, kilometers per second, kilometers per hour, miles per hour, feet per minute or Beaufort scale. Capable of measuring the slightest breeze, the unit uses an ultralight impeller mounted on jewel bearings to measure wind speed and provide an accuracy of ±3%. For temperature readings, the unit uses a fast-responding, hermetically sealed thermistor accurate to ±1°F (±1°C). Wind chill factor is calculated automatically from wind and temperature data using the U.S. National Weather Service's official tables. Measuring modes and display units can be changed at any time. Large, easy-to-read backlit LCD which automatically shuts off 45 minutes after last key press. Reinforced fiberglass ergonomic case which is waterproof and floats. Neck lanyard and one CR2032 battery are included. Five-year manufacturer's warranty.

Minimum wind speed: 0.7 mph (0.6 knots, 1 km/h, 0.3 m/s, or 60 fpm). **Maximum wind speed:** 89 mph (78 knots, 144 km/h, 40 m/s, or 7,830 fpm). **Wind speed accuracy:** ±3%. **Update:** 1 second. **Temperature and wind chill accuracy:** ±1°C. **Temperature resolution:** ±0.1°C. **Wind chill factor resolution:** ±0.1°F (±0.1°C). **Operating temperature:** -4°F to +140°F (-20°C to +60°C). **Temperature range†:** -20°F to +158°F (-29°C to +70°C). **Temperature sensor:** hermetically sealed precision thermistor. **Sealing:** electronics enclosure IP67 – water resistant to 3 ft. Floats. **Battery:** user-replaceable CR2032 coin cell battery (included) with a typical life of 400 hours. **Dimensions:** 4.8″ x 1.7″ x 0.6″.

Kestrel 2000
6 oz. C **89182** **$94.00**

Kestrel® 1000 Pocket Wind Meter

5465

Compact wind speed measurement.

Small enough to fit in your pocket, it's waterproof and it floats! Easy-to-read, reflective LCD offers three operating modes including wind speed, average wind speed, and maximum wind speed. All modes are available in knots, meters per second, kilometers per hour, miles per hour, feet per minute, or Beaufort scales at an accuracy of ±3%. Unit automatically shuts down after 45 minutes. To measure wind speed, this meter relies on a precision, ultralight, anodized aluminum impeller shock-mounted in glass-reinforced plastic housing. Impeller can be popped out and replaced if necessary. Five-year manufacturer's warranty.

Minimum speed: 0.3 m/s (0.6 knots, 1 km/h, 0.7 mph, 60 fpm). **Maximum speed:** 40 m/s (78 knots, 144 km/h, 89 mph, 7,830 fpm). **Wind speed accuracy:** ±3%. **Operating range:** -4°F to +140°F (-20°C to +60°C). **Update:** 1 second. **Sealing:** electronics enclosure IP67 – water resistant to 3 ft. Floats. **Battery:** CR2032 coin cell (included) with a typical life of 400 hours. **Dimensions:** 4.8″ x 1.7″ x 0.6″.

Kestrel 1000 Pocket Wind Meter
6 oz. C **89180** **$74.00**

Kestrel Accessories

Model	4500	4400	4200	4000	3500	3000	2500	2000	1000	Weight	$
Portable Vane Mount	89547		89547	89547						6 oz.	$50.00
New! Portable Compact Tripod	89549	89549	89549	89549	89549	89549	89549	89549	89549	6 oz.	$28.00
RH Calibration Kit	89188	89188	89188	89188	89188	89188				1 lb.	$64.00
Interface Kit*	89283	89283	89283	89283						15 oz.	$74.00
Replacement Impeller	89181	89181	89181	89181	89181	89181	89181	89181	89181	1 oz.	$15.00
AAA cell, pack of 4	02362	02362	02362	02362						2 oz.	$3.25
CR2032, 3V Lithium Battery, single					02190	02190	02190	02190	02190	1 oz.	$3.50
Case	89198		89198	89198	89198	89198	89198	89198	89198	3 oz.	$15.00

*Allows data to be downloaded for long-term storage, in-depth analysis and detailed charting. The included software is easy to use and saves the data in a comma delimited text file. System Requirements: PC with USB Port, Windows 3.1 or higher.

C Combination English and Metric

†Accurate readings may be taken beyond these temperature limits by exposing the unit for the minimum time necessary to take and record measurements.

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WeatherHawk

WindMate™ Wind/Weather Meters

8226

Manufacturer's Warranty 2 Year

WindMate 100

Measures current, average, and maximum wind speed. The wind vane ensures you are on the wind's axis for accurate readings, and a tripod fitting allows for easy mounting on a tripod. The case meets U.S. military specifications.

WindMate 100	C	7 oz.	**89275**	**$69.95**

WindMate 200

The same features as the WindMate 100 and also measures wind direction in degrees and compass points; cross and head/tail wind; temperature; and wind chill. The display is backlit for easy viewing. **Digital Compass Accuracy:** ±2° (typical), ±6° in extreme northern and southern latitudes.0 to 360° range.

WindMate 200	C	7 oz.	**89276**	**$112.95**

WindMate 300

In addition to the features of the WindMate 200, this versatile meter also provides relative humidity, wet bulb, dewpoint, Delta T, and AccuWeather.com®'s patented Comfort Index™. **Digital Compass Accuracy:** ±2° (typical), ±6° in extreme northern and southern latitudes.0 to 360° range.

WindMate 300	C	7 oz.	**89277**	**$149.95**

WeatherHawk

Skymate Wind Meter

2319

Manufacturer's Warranty 2 Year

Convenient pocket-knife design protects meter when not in use!

The high visibility Skymate measures current and maximum windspeed, average windspeed over 5, 10, or 13 seconds, and current temperature and wind chill. Features include a water-resistant housing, data hold to freeze most recent display, a replaceable 400 hour lithium battery, a replaceable plastic impeller, a lanyard, threads for mounting on a tripod, and it reads in tenths for any measurement unit you choose. Two-year manufacturer's warranty.

Skymate Wind Meter	C	5 oz.	**89272**	**$74.95**

WeatherHawk

Skymaster Weather Meter

2321

Manufacturer's Warranty 2 Year

Provides you with advanced weather information!

Measures current, average and maximum windspeed, temperature with wind chill and heat index, relative humidity with dewpoint, current barometric pressure with a 16-hour pressure history bar graph, and altitude. The convenient pocket-knife design protects the meter when not in use. Other features include a storm audio alarm, data hold to freeze most recent display, a high-visibility water-resistant housing, a replaceable 400 hour lithium battery, a replaceable plastic impeller, a lanyard, threads for mounting on a tripod, and it reads in tenths for any measurement unit you choose.

Skymaster Weather Meter	C	7 oz.	**89274**	**$159.95**

		WindMate 100	WindMate 200	WindMate 300	Skymate Wind Meter	Skymaster Weather Meter
Range	Wind	0.8 to 89.0 mph	0.8 to 89.0 mph	0.8 to 89 mph	0.5 - 89 mph	0.4 - 89 mph
	Relative Humidity			5.0% to 95.0% non-condensing		0-99%
	Temperature		-20.0°F to 158°F	-20.0°F to 158°F	5°F to 122°F (-5°C to 50°C)	+5°F - 122°F
	Windchill		-50.0°F to 50.0°F	-50.0°F to 50.0°F	-22°F to 158°F	-22°F - 158°F
	Dewpoint			-20.0°F to 158.0°F		-31.2°F - 155.8°F
	Heat Index			70.0°F to 130.0°F		+69.8°F - +155.8°F
	Barometer					400 +1,100 hPa
	Altitude					-650m to 9,000m
Accuracy	Wind	±3%	±3%	±3%	±3% aligned with wind's axis	±3%
	Relative Humidity			±3%		±3%
	Temperature		±1.8°F	±1.8°F	±2°F	±2°F
	Windchill		±1.8°F	±1.8°F	±2°F	±2°F
	Dewpoint			±3.6°F		±3°F
	Heat Index			±3.6°F		±3°F
	Barometer					±3 hPa
Optional Units		Knots, mph, kph, m/sec, ft/min, Beaufort Scale	Knots, mph, kph, m/sec, ft/min, Beaufort Scale; °F or °C	Knots, mph, kph, m/sec, ft/min, Beaufort Scale; %RH; °F or °C	Knots, mph, kph, m/sec, ft/min, Beaufort Scale - F or C	Knots; mph; kph; m/sec; ft/min; Beaufort Scale - F/C; Barometric Pressure - Hg, hpa, or mbar; Altitude - ft. or m; % RH
Auto Shutdown		After 5 minutes if not manual	After 5 minutes if not manual	After 5 minutes if not manual	After 20 minutes if not manual	N/A
Power (included)		1 CR2032 Lithium	1 CR2032 Lithium	1 CR2032 Lithium	1 CR2032 Lithium	1 CR2032 Lithium
Dimensions					5.65″ x 1.85″ x 0.85″	5.9″ x 2.1″ x 0.85″

C Combination English and Metric

[search engine powered by magazooms.com]

SKYWATCH®

Skywatch® Xplorer Series Weather Meters

7708

Manufacturer's Warranty 1 Year

All of these waterproof meters display wind speed in km/h, m/s, knots, mph, and fps. Each meter features a backlit display, auto shutoff after one minute, and a rugged stainless steel back. One year warranty from the manufacturer.

Operating Temperature: -4°F to 158°F (-20°C to 70°C). **Power:** Lithium battery (included). **Dimensions:** 1.5″ x 3.5″ x 0.75″. **Weight:** 2.0 oz.

Accessories

Carrying Case for Skywatch Xplorer Series	2 oz.	**89282**	**$9.95**

Skywatch Xplorer 1

Measures current wind speed and maximum wind speed.

Wind Speed – Maximum Reading: 150 km/h, 42 m/s, 81 knots, 97 mph, 138 fps; **Resolution:** 0.1 unit; **Accuracy:** ±3%; **Measuring Cycle:** two measurements per second.

Skywatch Xplorer 1	C	7 oz.	**89301**	**$49.95**

Skywatch Xplorer 2

Measures current wind speed, maximum wind speed, temperature, and wind chill.

Wind Speed – Maximum Reading: 150 km/h, 42 m/s, 81 knots, 97 mph, 138 fps; **Accuracy:** ±3%; **Measuring Cycle:** two measurements per second. **Temperature – Range:** -58°F to 212°F (-50°C to 100°C); **Resolution:** 0.1 unit; **Accuracy:** ±0.5°F (±0.3°C); **Measuring Cycle:** two measurements per second.

Skywatch Xplorer 2	C	7 oz.	**89302**	**$59.95**

Skywatch Xplorer 3

Measures current wind speed, maximum wind speed, temperature, and wind chill and also features a digital compass.

Wind Speed – Maximum Reading: 150 km/h, 42 m/s, 81 knots, 97 mph, 138 fps; **Accuracy:** ±3%; **Measuring Cycle:** two measurements per second. **Temperature – Range:** -58°F to 212°F (-50°C to 100°C); **Resolution:** 0.1 unit; **Accuracy:** ±0.5°F (±0.3°C); **Measuring Cycle:** two measurements per second. **Compass – Unit:** degrees; **Resolution:** 1 degree; **Accuracy:** ±4 degrees.

Skywatch Xplorer 3	C	7 oz.	**89303**	**$94.95**

Skywatch Xplorer 4

Measures current wind speed, maximum wind speed, temperature, wind chill, barometric air pressure (relative and absolute), altitude, and 48-hour history of air pressure and altitude (each hour) and also features a digital compass.

Wind Speed – Maximum Reading: 150 km/h, 42 m/s, 81 knots, 97 mph, 138 fps; **Accuracy:** ±3%; **Measuring Cycle:** two measurements per second. **Temperature – Range:** -58°F to 212°F (-50°C to 100°C); **Resolution:** 0.1 unit; **Accuracy:** ±0.5°F (±0.3°C); **Measuring Cycle:** two measurements per second. **Compass – Unit:** degrees; **Resolution:** 1 degree; **Accuracy:** ±4 degrees. **Barometer – Units:** inHg and hPa; **Range:** 8.86 to 32.50 inHg, 300 to 1,100 hPa; **Accuracy:** ±0.03 inHg, ±1 hPa. **Altitude – Units:** feet and meters; **Range:** -2,300 to 29,500 ft., -700 to 9,000 m; **Resolution:** 3 ft./1 m; **Accuracy:** ± 10 m.

Skywatch Xplorer 4	C	7 oz.	**89300**	**$119.95**

SKYWATCH®

Skywatch® Eole 1 & Meteos 1 Anemometers

7707

These omni-directional wind meters provide accurate wind speed measurements regardless of position in relation to wind direction. The three-cup impeller ensures accuracy in minimal winds but is strong enough to withstand strong winds. Measurements are shown on a large, backlit LCD. Each waterproof meter floats and features an aluminum base for attachment to a tripod. Protective cap for impeller included.

Skywatch Meteos 1

Measures current wind speed, maximum wind speed, average wind speed, current temperature, maximum temperature, minimum temperature, average temperature, and wind chill.

Wind Speed – Measuring Units: km/h, mph, fps, m/s, knots, and Beaufort. **Selectable Averaging Period:** 3 seconds to 24 hours. **Range:** 1.2 mph to 93.2 mph, 2 km/h to 150 km/h. **Accuracy:** ±3% of reading from -10°C to 50°C. **Resolution:** to the 10th up to 99.9, then to the unit. **Temperature – Measuring Units:** °F and °C. **Range:** -40°F to 176°F, -40°C to 80°C. **Accuracy:** ±1.0°F, ±0.5°C. **Selectable Averaging Period:** 3 seconds to 24 hours. **Power:** 2 AA batteries. **Dimensions:** 2.6″ x 6.1″. **Weight:** 8.3 oz.

Skywatch Meteos 1	C	10 oz.	**89298**	**$99.50**

Skywatch Eole 1

Measures current wind speed, maximum wind speed, and average wind speed.

Wind Speed – Measuring Units: km/h, mph, fps, m/s, knots, and Beaufort. **Selectable Averaging Period:** 3 seconds to 24 hours. **Range:** 1.2 mph to 93.2 mph, 2 km/h to 150 km/h. **Accuracy:** ±3% of reading from -10°C to 50°C. **Resolution:** to the 10th up to 99.9, then to the unit. **Power:** 2 AA batteries. **Dimensions:** 2.6″ x 6.1″. **Weight:** 8.3 oz.

Skywatch Eole 1	C	11 oz.	**89297**	**$79.95**

Accessories

Carrying Case for Eole 1 and Meteos 1	1 oz.	**89281**	**$13.95**

C Combination English and Metric

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EXTECH INSTRUMENTS

Extech® Cup Thermo-Anemometer

7479

Measure air velocity and temperature with this rugged meter! Rotating cups provide accurate air velocity measurements in m/s, ft/min, mph, km/h, and knots. Temperature is displayed in either °F or °C. This water-resistant meter stores up to 100 readings, and maximum and minimum values are recorded. Includes 4 AAA batteries.

Range: Air Velocity, 0.9 m/s to 35.0 m/s, 2.5 km/h to 126.0 km/h, 1.4 knots to 68.0 knots, 144 ft/min to 6,895 ft/min, 1.6 mph to 78.2 mph; Temperature, 32°F to 122°F (0°C to 50°C). **Resolution:** Air Velocity, 0.1 m/s, 0.1 km/h, 0.1 knots, 1 ft/min, 0.1 mph; Temperature, 0.1°F/°C. **Basic Accuracy:** Air Velocity, ±(2% + 0.2 m/s), ±(2% + 0.8 km/h), ±(2% + 0.4 knots), ±(2% + 40 ft/min), ±(2% + 0.4 mph); Temperature, ±1.5°F (0.8°C).

Extech Cup Thermo-Anemometer
2 lbs. C **89522** **$219.99**

Dwyer® Hand-Held Wind Meter

6479

To operate, hold at eye level with back of the unit to the wind. The position of the white ball in the tube indicates wind speed in miles per hour. For high range use, cover the hole at the top with your finger and read. Available in English or metric.

Accuracy: ±1/2 mph (±0.8 km/hr) low scale; ±3 mph (±4.8 km/hr) high scale. **Resolution:** 0.5 mph (0.5 km/hr) low wind; 2 mph (2 km/hr) high wind. **Range:** 2 to 10 mph (3.5 to 16 km/hr) low scale; 6 to 66 mph (8 to 104 km/hr) high scale. Includes one tube cleaner and a vinyl case.

Dwyer Hand-Held Wind Meter, English Model
3 oz. E **89001** **$23.50**
10+ **$21.25**

Dwyer Hand-Held Wind Meter, Metric Model
3 oz. M **89000** **$23.50**
10+ **$21.25**

Pack of three Replacement Balls
1 oz. **89003** **$18.95**

M Metric
E English

Brunton® Atmospheric Data Center Meters

2749

BRUNTON

These waterproof pocket weather stations measure everything from wind speed, temperature and altitude to barometric pressure, relative humidity and air density. Each meter shows accurate current temperature (°C or °F), wind chill, wind speed, current water speed, time, day and date plus each features a race timer (50 lap with recall function) and 1/100-second chronograph operation. Choose the model that best meets your needs!

Manufacturer's Warranty Lifetime

ADC Wind™ - Pocket Wind Meter

Displays current, max and average wind speed (in km/h, mph, feet/s, m/s, or knots); current temperature; past 24-hour temperature tendency; wind chill; and average wind chill and minimum wind chill. The ADC Wind also features a wind chill alarm.

Display: 11 x 40 dot matrix negative LCD display with blue color electro-luminescent (EL) backlight. **Power:** CR2032 3V lithium battery (included). **Battery Life:** >1 Year. **Warranty:** U-Proof Lifetime from the manufacturer. **Wind Speed: Selectable units:** km/h, mph, feet/s, m/s, and knots; **Range:** 0 to 144 km/h, 0 to 89.4 mph, 0 to 131.2 feet/s, 0 to 40 m/s, 0 to 77.7 knots; **Resolution:** 0.1 km/h, 0.1 mph, 0.1 feet/s, 0.1 m/s, 0.1 knots; **User defined offset:** 18 km/h with 0.1 resolution, 11.1 mph with 0.1 resolution, 16.4 feet/s with 0.1 resolution, 5.0 m/s with 0.1 resolution, 9.7 knots with 0.1 resolution; **Accuracy:** up to 3 m/s (6.7 mph), better than ±10%, over 3 m/s (6.7 mph), better than ±5%; **Average wind speed interval:** 5 to 60 seconds. **Temperature: Selectable units:** °C and °F; **Range:** -25°C to 60°C (-13°F to 140°F); **Resolution:** 0.1°C (0.1°F); **User defined offset:** 5.0°C with resolution 0.1 (9.0°F with resolution 0.1); **Accuracy:** 1°C (1.8°F). **Wind Chill: Range:** -60°C to 60°C.

ADC Wind - Pocket Wind Meter
6 oz. C **89224** **$69.99**

Manufacturer's Warranty Lifetime

ADC Summit™

Features include current barometric pressure (in hPa, mb or inHg); the past 24 hour pressure tendency; storm alarm; predicts the coming 12-hour's weather; altimeter which shows current, max, min altitude (in meters or feet); density alarm; altitude alarm; ski run counter; current temperature; past 24 hour temperature tendency; current, max and average wind speed; wind chill; average wind chill and minimum wind chill; wind chill alarm; and manual and automatic data logging*. IR data communication is available with a PC using the optional Infrared Receiver.

Display: 11 x 40 dot matrix negative LCD display with blue color electro-luminescent (EL) backlight. **Power:** CR2032 3V lithium battery (included). **Battery Life:** >1 Year. **Warranty:** U-Proof Lifetime from the manufacturer. **Wind Speed: Selectable units:** km/h, mph, feet/s, m/s, and knots; **Range:** 0 to 144 km/h, 0 to 89.4 mph, 0 to 131.2 feet/s, 0 to 40 m/s, 0 to 77.7 knots; **Resolution:** 0.1 km/h, 0.1 mph, 0.1 feet/s, 0.1 m/s, 0.1 knots; **User defined offset:** 18 km/h with 0.1 resolution, 11.1 mph with 0.1 resolution, 16.4 feet/s with 0.1 resolution, 5.0 m/s with 0.1 resolution, 9.7 knots with 0.1 resolution; **Accuracy:** up to 3 m/s (6.7 mph), better than ±10%, over 3 m/s (6.7 mph), better than ±5%; **Average wind speed interval:** 5 to 60 seconds. **Temperature: Selectable units:** °C and °F; **Range:** -25°C to 60°C (-13°F to 140°F); **Resolution:** 0.1°C (0.1°F); **User defined offset:** 5.0°C with resolution 0.1 (9.0°F with resolution 0.1); **Accuracy:** 1°C (1.8°F). **Wind Chill: Range:** -60°C to 60°C. **Barometer: Selectable units:** hPa, mb, and inHg; **Range:** 300 to 1,100 hPa, 300 to 1,100 mb, 8.85 to 32.48 inHg; **Resolution:** 0.1 hPa, 0.1 mb, 0.01 inHg; **User defined offset:** 5.0 hPa with resolution 0.1, 5.0 mb with resolution 0.1, 0.15 inHg with resolution 0.01; **Accuracy:** 1.5 hPa. **Altimeter: Selectable units:** meters and feet; **Range:** -500 m to 9,000 m, -1,640 ft. to 29,528 ft.; **Resolution:** 1 m, 1 ft.; **User defined offset:** 2,000m with resolution 1, 6,562 ft. with resolution 1; **Accuracy:** 50m, 164 ft.

ADC Summit*
6 oz. C **89225** **$129.99**

Infrared Receiver for ADC Meters
5 oz. **89227** **$39.99**

*With 1,980 points of data for logging wind speed, barometric pressure, altitude, and temperature.

Manufacturer's Warranty Lifetime

ADC Pro™ - Pocket Weather Station

Features include current relative humidity, heat index, dew point and wet bulb; relative air density; air density; density altitude; current barometric pressure (in hPa, mb or inHg); storm alarm; past 24-hour pressure tendency; predicts the coming 12-hour's weather; altimeter shows current, max, min altitude (in meters or feet); altitude alarm; ski run counter; shows current temperature; past 24-hour temperature tendency; current, max and average wind speed; wind chill; average wind chill and minimum wind chill; wind chill alarm; manual and automatic data logging*; and features flowmeter and water temperature capabilities. IR data communication is available with a PC using the optional Infrared Receiver.

Display: 11 x 40 dot matrix negative LCD display with blue color electro-luminescent (EL) backlight. **Power:** CR2032 3V lithium battery (included). **Battery Life:** >1 Year. **Warranty:** U-Proof Lifetime from the manufacturer. **Wind Speed: Selectable units:** km/h, mph, feet/s, m/s, and knots; **Range:** 0 to 144 km/h, 0 to 89.4 mph, 0 to 131.2 feet/s, 0 to 40 m/s, 0 to 77.7 knots; **Resolution:** 0.1 km/h, 0.1 mph, 0.1 feet/s, 0.1 m/s, 0.1 knots; **User defined offset:** 18 km/h with 0.1 resolution, 11.1 mph with 0.1 resolution, 16.4 feet/s with 0.1 resolution, 5.0 m/s with 0.1 resolution, 9.7 knots with 0.1 resolution; **Accuracy:** up to 3 m/s (6.7 mph), better than ±10%, over 3 m/s (6.7 mph), better than ±5%; **Average wind speed interval:** 5 to 60 seconds. **Temperature: Selectable units:** °C and °F; **Range:** -25°C to 60°C (-13°F to 140°F); **Resolution:** 0.1°C (0.1°F); **User defined offset:** 5.0°C with resolution 0.1 (9.0°F with resolution 0.1); **Accuracy:** 1°C (1.8°F). **Wind Chill: Range:** -60°C to 60°C. **Barometer: Selectable units:** hPa, mb, and inHg; **Range:** 300 to 1,100 hPa, 300 to 1,100 mb, 8.85 to 32.48 inHg; **Resolution:** 0.1 hPa, 0.1 mb, 0.01 inHg; **User defined offset:** 5.0 hPa with resolution 0.1, 5.0 mb with resolution 0.1, 0.15 inHg with resolution 0.01; **Accuracy:** 1.5 hPa. **Altimeter: Selectable units:** meters and feet; **Range:** -500 m to 9,000 m, -1,640 ft. to 29,528 ft.; **Resolution:** 1 m, 1 ft.; **User defined offset:** 2,000m with resolution 1, 6,562 ft. with resolution 1; **Accuracy:** 50m, 164 ft. **Relative Humidity: Selectable units:** % RH; **Range:** 0 to 100% RH; **Resolution:** 0.1% RH; **Accuracy:** 3.5% RH (Range: 20% to 80% RH), 5.0% RH (Other range).

ADC Pro - Pocket Weather Station
6 oz. C **89226** **$179.99**

Infrared Receiver for ADC Meters
5 oz. **89227** **$39.99**

StrikeAlert® Personal Lightning Detector
page 493

Weather Radios
page 494

C Combination English and Metric

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Wind Sock
4313

Highly visible indicators of wind direction and speed! These windsocks are made of high-quality international orange PVC over nylon, which is incredibly durable and stays colorfast longer than other materials. The frames (sold separately) are made from corrosion-resistant aluminum and mount on a standard 1.25″ outside diameter pipe. Buy the same diameter frame and windsock for a perfect fit.

10″ Dia. x 30″L Sock	7 oz.	**89045**	**$28.50**
10″ Dia. Frame	1 lb.	**89038**	**$54.50**
18″ Dia. x 48″L Sock	1 lb.	**89046**	**$33.95**
18″ Dia. Frame	2 lbs.	**89036**	**$60.95**
24″ Dia. x 96″L Sock	3 lbs.	**89047**	**$58.95**
24″ Dia. Frame	3 lbs.	**89040**	**$85.95**

5 Manufacturer's Warranty 5 Year

Sper Scientific Mini Environmental Quality Meter
7228

A light meter, humidity meter, thermometer, and anemometer in one compact unit! Max/min function, hold function, a dual display with low battery and over range indicators, touch-tone buttons, and auto power off. Includes soft carrying case, wrist strap, and 9V battery. Five-year manufacturer's warranty.

Range: Temperature, 32°F to 122°F ambient (0°C to 50°C ambient), -148°F to 2,372°F Type K (-100°C to 1,300°C Type K); Relative Humidity, 10% to 95% RH; Airspeed, 0.4 to 25.0 m/s, 1.4 to 90.0 km/h, 0.9 to 55.9 mile/h, 0.8 to 48.6 knots, 80 to 4,930 ft/min; Lux, 0 to 20,000; Foot Candle, 0 to 2,000. **Resolution:** Temperature, Relative Humidity, Airspeed (except ft/min), and Foot Candle, 0.1; Airspeed (ft/min) and Lux, 1. **Accuracy:** Temperature, ±2.5°F ambient (±1.2°C ambient), ±(1% + 2°F) Type K {±(1% + 1°C) Type K}; Relative Humidity, ±6% 30 to 60 RH, otherwise ±8%; Airspeed (except ft/min), ±(3% + 2d); Airspeed (ft/min), ±(3% + 20 ft/min); Lux and Foot Candle, ±(5% + 4d). **Weight:** 5.5 oz. **Dimensions:** 6″x 2-1/2″x 1″.

Sper Scientific Mini Environmental Quality Meter	C	12 oz.	**92499**	**$157.25**
			2+	**$145.75**

Rain Gauges
page 490

C Combination English and Metric

2 Manufacturer's Warranty 2 Year

RainWise Inc.

RainWise® WindLog™ Wind Data Logger
7468

Compact and affordable, this wind data logger is ideal for testing the viability of a location prior to the installation of a wind turbine. The WindLog collects data in real time and also logs average speed, wind gusts, and average direction. The user-selectable logging intervals range from one minute to one hour, and the 1 MB Flash memory stores over one year's worth of wind data. Data can be downloaded using the included 15′ USB cable and Windows-based WindLogger™ software (WindSoft) that uses an SQLite database to track and record wind information. WindSoft can generate statistics, graphs, and reports. The USB cable can be left connected to the WindLog for real-time viewing of wind data on your computer. Support mast included. Two-year manufacturer's warranty.

Wind Speed: Range, 0 to 67 meters per second (150 mph); **Accuracy:** ±2%. **Wind Direction:** Range, 360° no deadband; Resolution, 22.5°, averaged; Accuracy, ±22.5°. **Power:** 3 AA alkaline or Lithium batteries. **Typical Battery Life:** 6 to 9 months.

RainWise WindLog Wind Data Logger	6 lbs.	**89892**	**$385.00**
100′ Extension Cable*	2 lbs.	**89894**	**$69.00**

USB Extender – For direct USB connection up to 100′ from the WindLog. Signal is transmitted over standard CAT 5e cable (not included). Includes two USB interfaces, waterproof enclosure, and 3′ USB cable. 1 lb. **89895** **$124.00**

*Ethernet extension cable allows the wind sensor to be mounted in a separate location away from the WindLog data logger.

EXTECH INSTRUMENTS

Extech® Environmental Meter
2405

Measures Humidity, Temperature, Air Velocity, Light and Sound. Features include: a large dual LCD for simultaneously displaying Temperature and Air Velocity or Relative Humidity; Data Hold and Min/Max functions; a built-in low friction vane wheel which improves accuracy of air velocity, precision thin-film capacitance humidity sensor for fast response, and thermistor for ambient temperature measurements; characters on display reverse direction depending on Hygro-Thermo-Anemometer or Light-Sound Mode; utilizes precision photo diode and correction filter for Cosine and color corrected light measurements; auto power off 10 minutes after last key is pressed with disable feature; Low Battery and overrange indication; tripod mount; and PC interface with optional Data Acquisition Software 407001. Type K input measures temperature up to 2372°F (1300°C). Sound Level measurement meets IEC 61672 class 2 using A frequency weighting and fast response time. Comes complete with pouch case and six 1.5V AAA batteries.

Range - Air Velocity: 80 to 5910 ft/min, 0.4 to 30m/s, 1.4 to 108km/h, 0.9 to 67 MPH, 0.8 to 58.3 knots. **Light:** 0 to 1860Fc, 0 to 20,000Lux. **Relative Humidity:** 10 to 95%RH. **Temperature:** Thermistor, 32 to 122°F (0 to 50°C); Type K, -148 to 2372°F (-100 to 1300°C). **Sound:** 35 to 130dB, 31.5 to 8,000Hz, A weighting/fast response. **Resolution - Air Velocity:** 1ft/min, 0.1m/s, 0.1km/h, 0.1MPH, 0.1knots. **Light:** 0.1Fc, 1Lux. **Relative Humidity:** 0.1%RH. **Temperature:** Thermistor, 0.1°; Type K, 0.1. **Sound:** 0.1dB. **Basic Accuracy - Air Velocity:** ±3% FS. **Light:** ±(5% rdg + 8d). **Relative Humidity:** ±4%RH of rdg. **Temperature:** Thermistor, ±2.5°F/1.2°C; Type K, ±(1%+2°F1°C/) of rdg. **Sound:** ±1.4dB. **Power:** 6 "AAA" batteries. **Dimensions:** Meter, 9.8″x 2.8″x 1.3″; Vane, 1.2″. **Weight:** 11.8oz.

Extech Environmental Meter	1 lb.	**89119**	**$319.99**

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GRX2 Base
and Rover RTK Kit
forestry-suppliers.com

43087 43047 43055

GPS Rover Rods

4515

CST/Berger GPS Rover Rod - 2-section, 6´ Long 5 lbs.	**43087**	**$80.25**
SECO Aluminum Snap-Lock Rover Rod - Telescopes and locks at 2m and collapses to 1.354m. 4 lbs.	**43047**	**$136.00**
Topcon Carbon Fiber Robotic Pole Graduated in feet, tenths, and hundredths. 4.90´ Collapsed. 8.60´ Extended. 3 lbs.	**43055**	**$268.00**

Spectra Precision® ProMark 120

7706

Thanks to the embedded BLADE technology as well as GPS and GLONASS signals tracking, ProMark 120 provides high-precision measurements even in very demanding or obstructed environments. The ProMark Field software provides all necessary tools without any unnecessary or complicated features. Lightweight, but rugged and waterproof handheld design, all-day-long autonomy, and large memory make it a perfect solution for easy and efficient post-processing. Upgrade easily to GLONASS and use not only in post-processing but also in RTK or GIS applications. Built on the state-of the-art Microsoft Windows Embedded 6.5 Professional based platform with embedded wireless communications. Includes one GNSS receiver, an integrated stylus, a docking station, universal A/C Adapter, USB data cable, a field bracket, HI tape, ProMark Field software, the ASH-660 (L1 GPS/GLONASS) antenna, and a soft field bag.

Satellite Tracking: 45 parallel all-in-view channels. **Accuracy:** SBAS, <50 cm typical; DGPS, <30 cm +1 ppm typical.; RTK, 10 mm +1 ppm typical; Static post-processing, 5 mm +1 ppm typical; Kinematic post-processing, 12 mm +2 ppm typical. **RTK Initialization Time:** <3 min typical (GPS + GLONASS, <5 min typical (GPS only). **RTK Range:** Up to 10 km typical (GPS + GLONASS), Up to 7 km typical (GPS only). **Display:** Color TFT High resolution with touchscreen, sunlight readable. **Memory Capacity:** 256 MB SDRAM, 2 GB Nand Flash (non-volatile), SDHC memory card slot. **Operating System:** Microsoft Windows Embedded 6.5 Professional. **Power Source:** Removable Lithium Ion, 6600mAh. **Battery Life:** >8 hours. **Waterproof:** yes. **Operating Temp.:** -4°F to 140°F (-20°C to 60°C). **Dimensions:** 7.5˝H x 3.5˝W x 1.7˝D. **Weight (with batteries):** 1.43 lbs.

ProMark 120 L1 GPS, List Price: $3950.00	3 lbs.	**38895**	**Call for $**
GLONASS Firmware/Software, List Price: $1250.00	1 oz.	**38896**	**Call for $**
External Antenna Survey Cable	3 oz.	**38894**	**$89.95**
Precision External Antenna	1 lb.	**38901**	**$795.00**
SECO Screw Clamp Bipod with Thumb-Release™ Legs – Legs extend to 6´, collapse to 43˝	6 lbs.	**43693**	**$153.50**
Transcend 2.0 GB SD Card	4 oz.	**02513**	**$27.25**
Battery Pack, Li-ion	4 oz.	**37796**	**$99.95**
Bracket for Pole Mount	10 oz.	**37797**	**$184.95**

Handyman In-Your-Pocket Reference Book

4104

Provides invaluable reference on carpentry, construction, and more!

By Richard A. Young and Thomas J. Glover. Includes information on carpentry and construction, electrical, math, glues and adhesives, nails, staples, spikes, paints, finishes, solvents, rope, chain, wire rope, sheet metal plate, water, air, tools, welding, weights and properties of materials and much, much more. Softcover. 768 Pages.

Handyman In-Your-Pocket Reference Book	7 oz.	**59915** 3+	**$12.95** **$10.95**

SECO GIS Backpack

7745

This pack includes a cam-lock antenna pole, interior pockets, a rain flap, foam wall padding, adjustable shoulder straps, and belt loop straps.

Approximate Interior Dimensions: 15˝x 9˝x 4˝.

SECO GIS Backpack	3 lbs.	**43048**	**$165.50**

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1 New! Carlson® MINI2 with SurvCE Basic Total Station
4672

The MINI2 combines efficiency and affordability! The data collector utilizes a fast 1.0 GHz processor and fits comfortably in one hand, weighing just 1.3 lbs. The MINI2 boasts a scratch-resistant, touch-screen, backlit display that allows for easy viewing of survey data in low light or glaring sunshine. In addition, the keyboard features adjustable LED backlit keys, a five-way directional navpad, and a numeric keypad with six user-reassignable keys. Pre-loaded with SurvCE Basic Total Station software, the MINI2 works with conventional/robotic total stations, new and legacy. Dustproof and waterproof rating of IP68. Meets MIL-STD-810G standard.

System Configuration - Operating System: Microsoft® Windows Embedded Handheld 6.5.3. **Processor:** 1.0 GHz ARM Cortex A8 i.MX53. **RAM:** 512MB. **Internal Flash Memory:** 8GB. **Communication Interface - Bluetooth:** Built-in. **WiFi:** Yes. **Storage:** User-accessible micro SD/SDHC slot. **Display:** 4.3″ WVGA LCD TFT (800x480). **Power Supply:** Intelligent Li-Ion battery 3.6VDC @ 10600mAh, 38.16Whr. **Dimensions:** 3.6″W x 7.25″L x 1.5″D. **Weight:** 1.3 lbs. **Operating Temperature:** -22°F to 131°F (-30°C to +55°C). **Storage Temperature:** -22°F to 158°F (-30°C to +70°C).

Carlson MINI2 with SurvCE Basic Total Station	4 lbs.	**37515**	**Call for $**

1

2 New! Carlson® Surveyor2 Series Data Collectors
7158

Manufacturer's Warranty 2 Year

This rugged, reliable data collector features a 1.0 GHz processor, 512 MB RAM, and 8 GB data storage. The data collector is equipped with long-range Bluetooth® capability (up to 1,500 feet when paired with a Class I device), boasts a battery life of up to 20 hours, and features an easy-to-read color display with scratch-resistant glass. Data entry is simple using the QWERTY keyboard with adjustable backlit keys. IP68 waterproof and dustproof. Shockproof to multiple drops from 5 feet onto concrete. Includes 10600 mAh battery, AC wall charger with international plug kit, micro USB client sync cable, quick start guide, adjustable hand strap, screwdriver, and stylus with tether. Two-year manufacturer's warranty.

Processor: 1.0 GHz ARM Cortex A8 i.MX53, 512 MB RAM. **Memory and Data Storage:** 8 GB flash storage, user-accessible micro SD/SDHC slot. **Bluetooth:** 2.1 + EDR. **Display:** 4.3″ active viewing area, VGA LCD TFT (640 x 480) landscape display. **Operating Temperature:** -22°F to 140°F (-30°C to 60°C). **Storage Temperature:** -22°F to 158°F (-30°C to 70°C). **Power:** Rechargeable Li-Ion battery pack. **Battery Life:** 20+ hours on a single charge. **Dimensions:** 10.2″L x 5.4″W x 1.6″D. **Weight:** 2 lbs.

Carlson Surveyor2 Standard with SurvCE Basic Software, List Price: $3,650.00	3 lbs.	**37568**	**Call for $**
Carlson Surveyor2 Standard with SurvCE GPS Only Software, List Price: $3,905.00	3 lbs.	**37567**	**Call for $**

2

3 Spectra Precision® Nomad™ 900B Data Collectors
7683

With an 806 MHz Marvell PXA320 XScale processor and built-in Bluetooth® capability, the Nomad 900B makes it easy to collect, save, and transmit data in the field. This powerful handheld computer includes Windows Mobile® 6.1 software to easily run a variety of applications. The high-resolution VGA display offers excellent visibility even in bright sunlight, and the backlit numeric keypad allows for ease of use in dim light. The rugged Nomad 900B boasts an IP67 rating and meets MIL-STD-810F military standards for drops, vibration, humidity, altitude, and extreme temperatures. The Nomad 900B is available with either Survey Standard or Survey Pro software. Survey Standard provides complete mechanical instrument support, data collection features, basic point stakeout, basic COGO (including inverses, intersections, manual traverse, area, and more), and basic curve solutions. In addition to the features of Survey Standard, Survey Pro also offers advanced COGO and curve solutions including station offsets, average points, and spiral tools; advanced stakeout including offset staking, slope staking, and stake to a DTM; and a complete road layout and staking tool set.

Processor: 806 MHz Marvell PXA320 XScale CPU. **Memory:** 128 MB DDR SDRAM. **Storage:** 512 MB non-volatile NAND Flash storage. **Expansion:** one Type II CF slot and one SD/SDHC slot. **Display:** 480 x 640 pixel (VGA) 16-bit color TFT with LED backlight. **Batteries:** 5200 mAh Li-Ion rechargeable pack. **Input/Output:** USB Host and client, power, audio jack. **Size:** 6.92″ x 3.92″ x 1.96″. **Weight:** 21 oz. **Operating Temperature:** -22°F to 140°F (-30°C to 60°C).

Nomad 900B with Survey Standard, List Price: $1,999.00	3 lbs.	**37526**	**Call for $**
Nomad 900B with Survey Pro, List Price: $2,399.00	4 lbs.	**37525**	**Call for $**
Rechargeable Lithium-Ion Battery	8 oz.	**37637**	**$135.00**
Ultra Clear Screen Protector, pack of 2	1 oz.	**37680**	**$10.95**
Tripod Bracket for Nomad and Recon	7 oz.	**37480**	**$59.90**
Stylus Pens, pack of 2	4 oz.	**34254**	**$8.50**

3

Total Station Field Cases
5558

Protect your investment!

Heavy-duty, water-resistant Cordura® nylon cases protect and carry all total stations in this catalog. Feature combination Velcro® and zipper closures, padded adjustable shoulder straps, rubber feet, and two elastic side pockets. Instrument compartment (14″ x 9″ x 7″) is padded throughout with 2″ foam. Prism compartment (10″ x 9-1/2″ x 3-1/2″) has 1″ foam padding. 11-1/2″ x 11″ x 24-1/2″ Overall. Choose from front-loading or top-loading.

Front-Loading Total Station Field Case	8 lbs.	**94634**	**$201.00**
Top-Loading Total Station Field Case	7 lbs.	**94635**	**$215.00**

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Topcon® Replacement Parts/Accessories
6509

BC-20B Battery Charger for GTS-300 Series 2 lbs.	**37845**	**$225.00**
BC-19B Battery Charger for CTS-1/CTS-2, GTS-200 & GTS-210 14 oz.	**37847**	**$217.00**
Battery Charger for 240 Series & 3200NW Series 2 lbs.	**38832**	**$235.00**
Battery for 240 Series & 3200NW Series 1 lb.	**38833**	**$217.00**
BC-10B Battery Charger, 4-pin GTS-2B, GTS-2R, GTS-3B, ET-1, ET-2, DM-A2, DM-S2, DM-S3, GTS-4, ITS-1 1 lb.	**37768**	**$117.00**
Instrument Cable 5 oz.	**38511**	**$106.95**
Interface Cable, Total Station to USB 6 oz.	**37659**	**$66.75**
Cradle & Claw Clamp for SHC236 and SHC336 Data Collectors 14 oz.	**38655**	**$150.00**

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800-752-8461

GRX2 Base and Rover RTK Kit
forestry-suppliers.com

Sokkia™ DX-205AC Robotic Total Station Kit
RED-tech reflectorless EDM provides reflectorless operation from 30cm to 1,000m in as fast as 0.9 seconds
3.5″ TFT QVGA color LCD touch display
Find it at forestry-suppliers.com

Topcon® Tesla Field Controller
forestry-suppliers.com

Topcon® ES Series Total Stations
7968

These total stations feature a class-leading EDM unit that measures up to 500m in non-prism mode and up to 4,000m using standard prisms. Red laser dot has a beam width of 15mm (over 30m). The total stations also have an easy-to-use trigger button and a built-in laser plummet. Each is equipped with the revolutionary TSshield™, a telematics-based multi-function communications module that provides advanced security and maintenance capabilities. Once your total station is registered, TSshield Advanced Security allows you to log into the TSshield website and lock your instrument in the event that it is lost or stolen - a theft-deterrent function that is the first of its kind in the industry! Using TSshield Advanced Maintenance, your total station can communicate with Topcon servers daily to review which firmware version is currently installed and then alert you if a newer version is available. The exclusive LongLink™ communications functionality features a 300 meter wireless communication range using Bluetooth® Class 1 technology, enabling you to operate an external data collector (sold separately) from the "smart-spot" of the crew, the prism pole. An environmentally protected USB 2.0 slot is compatible with industry-standard thumb drives. The rechargeable battery provides up to 36 hours of operation on a single charge. Waterproof/dustproof IP66 design.

Telescope: Length, 171mm; Objective Aperture, 45mm (EDM 48mm); Magnification, 30x; Image, erect; Field of View, 1°30′; Resolving Power, 2.5″; Minimum Focus, 1.3m (4.3′). **Distance Measurement: Range:** Non-Prism Mode, 500m (1,640′); Prism Mode, 4,000m (13,120′). **Angle Measurement:** Display Resolution, 1″/5″ (0.0002/0.001gon, 0.005/0.02mil); **Dual-Axis Compensator, Dual-axis liquid tilt sensor, working range:** ±6′ (±111mgon). **Data Storage:** Internal Memory, Approximately 10,000 points; Plug-In Memory Device, USB flash memory (maximum 8GB). **Display:** Graphic LCD 192 x 80 dots with backlight. **Operating Time:** Approximately 36 hours (single distance measurement every 30 seconds). **Operating Temperature:** -4°F to +122°F (-20°C to +50°C). **Dimensions:** 13.7″H x 7.5″W x 7.1″D. **Weight:** 12.3 lbs. with handle and battery.

ES-102 2″ Total Station with Dual Display, List Price: $11,290.00	O	23 lbs.	**38800**	**Call for $**
ES-103 3″ Total Station with Dual Display, List Price: $10,290.00	O	23 lbs.	**38801**	**Call for $**
ES-105 5″ Total Station with Dual Display, List Price: $8,990.00	O	23 lbs.	**38802**	**Call for $**
ES-107 7″ Total Station with Single Display, List Price: $8,490.00	O	23 lbs.	**38803**	**Call for $**
9-Pin Cable for CX, ES, and FX Total Stations		4 oz.	**37695**	**$106.95**
BDC70 Li-ion Battery		7 oz.	**38654**	**$321.95**
Replacement Charger, CDC-68		1 lb.	**37665**	**$320.00**
Transport Software	▲	1 lb.	**37832**	**$395.00**

Topcon® PS-103A Robotic Total Station
2859

Combines the latest tracking technology, advanced angle accuracy, and fast re-acquisition time. The revolutionary PowerTrac™ engine utilizes superior optics, a powerful laser system, and advanced algorithms to track a moving prism. The total station calibrates its own angle measurement system automatically and offers 1 second angle accuracy. The ultra-powerful EDM has a smaller beam width than other non-prism instruments in this class and can obtain measurements as fast as 0.9 seconds in the fine mode. The non-prism range is 1,000m (3,280 ft.), and the prism range is 6,000m (19,680 ft.).

TSshield™ technology provides the ultimate in security and maintenance. Once activated, the installed telematics card communicates with Topcon servers daily to alert you of software updates. If your total station is lost or stolen, you can also send a coded signal to the instrument to disable it.

LongLink™ provides license-free communication when connected with an external data collector. Features a 600m wireless communication range, allowing you to operate the field controller from the "smart-spot" of the crew, the prism pole. On-board Magnet™ Field software provides a powerful, intuitive tool for collecting survey mapping data and performing construction and road layout. The total station features a Windows CE 6.0 operating system, built-in Bluetooth® technology, a color TFT QVGA display, and an alphanumeric keyboard. IP65 housing provides protection from water and dust. Includes total station, RC-5 instrument handle, two batteries, dual tray battery charger, USB flash drive, stylus, carrying case with straps, tool kit, lens cap, and manuals.

Telescope: Resolving Power, 2.5″; Magnification, 30x. **Angle Measurement (Minimum Resolution/Accuracy):** 3″. **Tilt Angle Compensation:** Compensation, Dual-axis compensator; Range, ±6′. **Distance Measurement:** Prism EDM Range, 6,000m; Prism EDM Accuracy, 1.5mm+2ppm; Non-Prism Range, 1,000m; Non-Prism Accuracy, 2mm+2ppm (0.3-200m). **Measuring Time:** Fine, 0.9 sec.; Rapid, 0.6 sec.; Tracking, 0.4 sec. **Communications:** LongLink rover communications, USB 2.0 slot, RS-232C serial. **Battery Operation:** Up to 4 hours. **Operating Temperature:** -4°F to +122°F (-20°C to +50°C).

Topcon PS-103A Robotic Total Station, List Price: $28,000.00	O	35 lbs.	**38701**	**Call for $**
Topcon Robotic Accessory Kit – Includes RC-5 remote with protective bumper, ATP1-360° prism, two batteries, battery charger, prism pole extension, robotic prism pole, and tripod. List Price: $7,458.00.	O	35 lbs.	**38702**	**Call for $**
Sokkia Mesa 4-Screw Pole Mount Bracket for Topcon® Tesla		1 lb.	**38665**	**$295.00**

O Ships at Oversize rate. ▲ **Note:** Non-returnable if opened or seal is broken.

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1 New! Topcon® GTS-250 Series Wireless Total Stations
7665

With no cable between the instrument and a Bluetooth®-enabled data collector, these wireless total stations offer versatility and ease of use for surveying and construction applications. The ideal solution for construction layout work, the total station features on-board Magnet™ software. Other features include dual-axis compensation, an optical plummet, an enhanced absolute encoder, 24,000-point data storage, an easy-to-read LCD display, and a rugged, water-resistant design (IP54). Includes battery, battery charger, lens cap, tool kit with case, plastic rain cover, silicon cloth, and carrying case.

Topcon® GTS-252W 2″ Total Station

Telescope: Length, 150mm; Objective Lens Diameter, 45mm (EDM 50mm); Magnification, 30x; Image, Erect; Field of View, 1°30′; Resolving Power, 3″; Minimum Focus Distance, 4.27′ (1.3m). **Measuring Range:** One prism, 6,560′ (2,000m); Three prisms, 8,856′ (2,700m). **Angle Measurement:** Method, Absolute rotary encoder scanning; **Detection, Horizontal:** 2 sides, **Vertical:** 1 side; Minimum Reading, 5″/1″, 1/5 mgon. **Tilt Sensor:** Dual axis. **Display:** Dot matrix graphic LCD. **Operating Time:** Distance measurement, 9 hours; Angle measurement only, 40 hours. **Ambient Temperature Range:** -4°F to 122°F (-20°C to 50°C). **Dimensions:** 13.2″H x 7.2″W x 6.8″D. **Weight (with battery):** 10.8 lbs.

GTS-252W 2″ Total Station, List Price: $5,870.00	23 lbs.	**38804**	**Call for $**
Replacement BC-G1B Battery Charger	15 oz.	**37875**	**$282.00**
Replacement BT-G1W Battery	12 oz.	**37876**	**$217.00**

Topcon® GTS-255W 5″ Total Station

Telescope: Length, 150mm; Objective Lens Diameter, 45mm (EDM 50mm); Magnification, 30x; Image, Erect; Field of View, 1°30′; Resolving Power, 3″; Minimum Focus Distance, 4.27′ (1.3m). **Measuring Range:** One prism, 6,560′ (2,000m); Three prisms, 8,856′ (2,700m). **Angle Measurement:** Method, Absolute rotary encoder scanning; **Detection, Horizontal:** 2 sides, **Vertical:** 1 side; Minimum Reading, 5″/1″, 1/5 mgon. **Tilt Sensor:** Dual axis. **Display:** Dot matrix graphic LCD. **Operating Time:** Distance measurement, 9 hours; Angle measurement only, 40 hours. **Ambient Temperature Range:** -4°F to 122°F (-20°C to 50°C). **Dimensions:** 13.2″H x 7.2″W x 6.8″D. **Weight (with battery):** 10.8 lbs.

GTS-255W 5″ Total Station, List Price: $4,925.00	23 lbs.	**38805**	**Call for $**
Replacement BC-G1B Battery Charger	15 oz.	**37875**	**$282.00**
Replacement BT-G1W Battery	12 oz.	**37876**	**$217.00**

Bluetooth®

1

2 CYGNUS KS-102 Reflectorless Total Station
4725

Combining superior performance and outstanding affordability, this total station features a 200m reflectorless range and up to a 2,000m range when using a single prism. A built-in laser pointer assists in layout work. In addition to a 24-key alphanumeric keypad and a 24,000 point memory capacity, the total station's battery provides up to 23 hours of operation on a single charge. IP54 Environmental rating.

Telescope - Magnification: 30x. **Image:** Erect. **Field of View:** 1°30′. **Resolving Power:** 3.0″. **Minimum Focus Distance:** 1.3m.

Angle Measurement - Display Resolution: 1″/5″. **Accuracy:** 2″. **Axis Compensator:** 1 axis, ±3′ (Compensation range). **Distance Measurement - Measuring Range:** Reflectorless, 200m; Prism, 2,000m (single prism). **Accuracy:** Reflectorless, (3+2 ppm x D)mm; Prism, (2+2 ppm x D)mm. **Measuring Time (Fine):** 1.1s. **Interface and Data Management - Display:** Graphic LCD. **Keyboard:** 24 Alphanumeric keys. **Control Panel Location:** 2 Sides. **Data Storage:** 24,000 points in internal memory. **Interface:** Serial RS-232C.

General - Levels: Plate Level, 30″/2mm; Circular Level, 10′/2mm. **Optical Plummet (Magnification):** 3x. **Dust and Water Protection:** IP54. **Operating Temperature:** -20°C to 50°C. **Power Supply:** BT-77Q battery. **Operating Time:** Approximately 23 hours. **Dimensions (with handle):** 13.2″H x 7.2″W x 6.8″L. **Weight (with battery and tribrach):** 10.8 lbs.

CYGNUS KS-102 Reflectorless Total Station	O	27 lbs.	**37598**	**$3450.00**

DESKTOP. TABLET. MOBILE.
THE NEW FORESTRY-SUPPLIERS.COM

2

3 Sokkia™ CX Series Total Stations
7969

Powerful and reliable, these total stations utilize RED-tech™ EDM technology to measure up to 500m in non-prism mode and up to 4,000m with a prism. The ultra-narrow EDM beam and laser pointer ensure fast, accurate aiming. A side-mounted trigger key allows you to quickly capture a series of measurements without ever taking your eye off the telescope. The built-in laser plummet with five brightness levels offers quick instrument setting in all lighting conditions. The total stations are equipped with TSshield™, a telematics-based communications module that is the world's first integrated support service designed to secure and maintain your instrument. After your total station is registered, you can log into the TSshield website and send a coded signal that will disable the instrument in the event it is lost or stolen. In addition, TSshield also provides on-instrument notices of firmware updates to alert you when newer firmware versions are available. The total stations feature Bluetooth® Class 1 technology for long-distance wireless data communications up to 300 meters away. A USB Type A port allows for convenient addition of memory and field data transfer. The super long-life rechargeable battery operates up to 36 hours on a single charge. Waterproof/dustproof IP66 design.

Telescope: Length, 171mm; Objective Aperture, 45mm (EDM 48mm); Magnification, 30x; Image, erect; Field of View, 1°30′; Resolving Power, 2.5″ (CX-103 and CX-105) or 3.5″ (CX-107); Minimum Focus, 1.3m (4.3′). **Distance Measurement: Range:** Non-Prism Mode, 500m (1,640′); Prism Mode, 4,000m (13,120′). **Angle Measurement:** Display Resolution, 1″/5″ (0.0002/0.001gon, 0.005/0.02mil); **Dual-Axis Compensator, Dual-axis liquid tilt sensor, working range:** ±6′ (±111mgon). **Data Storage:** Internal Memory, Approximately 10,000 points; Plug-In Memory Device, USB flash memory (maximum 8GB). **Display:** Graphic LCD 192 x 80 dots with backlight. **Operating Time:** Approximately 36 hours (single distance measurement every 30 seconds). **Operating Temperature:** -4°F to +122°F (-20°C to +50°C). **Dimensions:** 13.7″H x 7.5″W x 7.1″D. **Weight:** 12.3 lbs. with handle and battery.

CX-103 3″ Total Station with Dual Display, List Price: $10,290.00	O	23 lbs.	**37569**	**Call for $**
CX-105 5″ Total Station with Dual Display, List Price: $8,990.00	O	23 lbs.	**37570**	**Call for $**
CX-107 7″ Total Station with Single Display, List Price: $8,490.00	O	23 lbs.	**37571**	**Call for $**
9-Pin Cable for CX, ES, and FX Total Stations		4 oz.	**37695**	**$106.95**
BDC70 Li-ion Battery		7 oz.	**38654**	**$321.95**
Replacement Charger, CDC-68		1 lb.	**37665**	**$320.00**
Transport Software	▲	1 lb.	**37832**	**$395.00**

3

SOKKIA

O Ships at Oversize rate. See Shipping Information for details.
▲ **Note:** Non-returnable if opened or seal is broken.

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CST/berger

CST "Peanut Pack™"

2771

All Metal Mini Prism Assembly

1″ Prism assembly with tilting 1″ mini prism, plumb bob mount, point and nylon belt case. Built-in circular vial.

CST "Peanut Pack" 11 oz.	**43061**	**$135.25**

SOKKIA

Sokkia™ Mini-Prism Kits

7305

0/-30mm offset on a dual-sided aluminum tilting target. The prism housing's point permits measurement of corners (offset 0mm). 1′ (25.4mm) diameter glass-sealed prism features a black anodized aluminum housing, circular bubble leveling vial, and 5/8 x 11″ mounting thread. Kit includes a plumb bob prism point, 5/8 x 11″ height extension, and a case with a belt loop.

Mini-Prism Kit with Center Vial Mini-Prism 10 oz.	**43063**	**$81.50**
Mini-Prism Kit with Side Vial Mini-Prism 11 oz.	**43064**	**$81.50**

Forestry Suppliers Prism Bags

5559

Protect expensive prisms in these foam-padded, water-resistant bags. Constructed of durable 1000 denier laminated-backed polyester fabric. Sturdy zipper closure and hand straps. Hold single or triple prisms.

Triple Prism Bag – Dimensions: 10.5″H x 8.5″W x 5.5″D 11 oz.	**94632**	**$34.25**
Extra Tall Triple Prism Bag – Dimensions: 15″H x 8″W x 3.5″D 1 lb.	**94626**	**$49.95**

TOPCON

Topcon® Prism Set

5555

Precision ground glass zero constant prism with 60 mm effective diameter and ±2 arc second accuracy in a high impact plastic housing, and a prism holder for long range horizontal distance measurements. Use without a target plate. Not tiltable. Reverse holder for mounting 30 mm constant prism.

Single Prism Complete 2 lbs.	**37760**	**$219.00**

SOKKIA

Sokkia™ Tilting Single Prism Assembly

4513

This 30mm offset prism assembly features an all-metal holder, screw locking mechanism, steel hardware, and no adjusting screws.

Sokkia Tilting Single Prism Assembly with Metal Target 2 lbs.	**37856**	**$105.00**

SOKKIA

Sokkia™ Strobe Prism with Target

8431

Ideal for use in adverse weather conditions, night surveying, tunneling, and mining. Designed to be used in all offsets. All electronics and power supply are housed within the prism canister. Includes all-metal tilting target. **Power:** one CR1/3N battery (included). **Battery life:** 7 days (24 hours) under normal conditions.

Sokkia Strobe Prism 13 oz.	**43074**	**$155.95**

37825

37616

Single Prism Sets

5560

Precision ground glass with 60 mm effective diameter and ±2 arc second accuracy in hermetically sealed plastic prism canisters. All stainless steel hardware. Holder can be reversed for either 0 mm or 30 mm constant applications. Single Prism Assembly is tilting.

Single Tilting Prism, Plastic Target 2 lbs.	**37825**	**$121.95**
Single Tilting Prism, Metal Target 2 lbs.	**37616**	**$136.95**
Replacement Prism Only 10 oz.	**37822**	**$117.75**
Single Prism Holder Only 2 lbs.	**37824**	**$70.25**

37611

37612

EDM Retro Prisms & Accessories

6510

Solid glass, 2-7/8″ diameter, -30 mm offset Single and Triple Prism Assemblies with hermetically sealed prism canisters. 5/8″ x 11 Threads for multiple assembly. 4-3/4″ Site pole included. Aluminum housings.

Single prism w/mount & sighting pole 2 lbs.	**37611**	**$130.00**
Triple prism w/mount & sighting pole 4 lbs.	**37612**	**$299.95**

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SECO

SECO Telescoping Prism Pole with QLV™ Locking Mechanism

8545

This pole's QLV™ (Quick Lever with Vial) locking assembly features a high-vis 40-minute vial that is located on the lock itself to allow room for other accessories on the pole. Top screws on the 40-minute vial make calibration fast and simple. The pole's adjustable lever tension allows you to customize the amount of locking pressure. The pole features dual graduations and utilizes a lightweight metal hybrid adjustable tip for accurate prism height. Extends to 8.53´ (2.60m), collapses to 4.97´ (1.52m).

SECO Telescoping Prism Pole with QLV Locking Mechanism		
4 lbs.	**43036**	**$167.00**

SECO

SECO TLV™ Prism Poles

8227

The TLV (Twisting Lock with Vial) prism pole is designed for long life and superior durability. The soft rubber knob easily loosens or tightens for fast adjustments, even if you're wearing gloves. A 40-minute vial is built into the lock and is positioned so that you have space on the pole to add accessories. The prism pole is constructed of aluminum tubing and features a two-stage brass adjustable top-threaded tip. The inner pole features permanent silk-screened dual graduations, and the outer pole is finished with an electrostatic powder paint coating.

One-Section Pole - Extends to 8.53´ (2.60m), collapses to 4.97´ (1.516m)		
4 lbs.	**43030**	**$141.75**
Two-Section Pole - Extends to 11.81´ (3.60m), collapses to 5.18´ (1.58m)		
5 lbs.	**43031**	**$191.25**
Three-Section Pole - Extends to 15.25´ (4.65m), collapses to 5.41´ (1.65m)		
7 lbs.	**43032**	**$236.50**

SECO

SECO One-Section Quick-Release Prism Pole

8445

This pole's quick-release handle lock makes setup fast and simple. The pole also features an adjustable tip and dual graduations. Extends to 8.53´ (2.60m), collapses to 4.97´ (1.516m).

SECO One-Section Quick-Release Prism Pole		
4 lbs.	**43035**	**$168.25**

Prism Pole Bag

8446

Fits most 8´, 12´, and 15´ poles

Prism Pole Bag		
10 oz.	**43101**	**$22.50**

SOKKIA — Made in USA

Sokkia™ Pro Series Knob Lock Prism Pole

4642

The pole's user-friendly, molded rubber knob lock mechanism allows for one-handed operation. Other features include dual-sided, precision CNC marked graduations; heavy-duty aluminum construction with electrostatic epoxy powder coat finish; 40-minute, top-adjust vial bubble level; and fine threaded precise tip for precision height adjustment. Graduations are 10ths on one side, metric on the other. Made in the USA.

8.5 ft./2.60m, One-Section Pole – Extends to 8.5 ft. (2.6m); Collapses to 4.6 ft. (1.4m).			
4 lbs.	C	**43037**	**$129.95**
12 ft./3.6m, Two-Section Pole – Extends to 12 ft. (3.66m); Collapses to 4.8 ft. (1.48m).			
5 lbs.	C	**43038**	**$174.95**
15 ft./4.6m, Three-Section Pole – Extends to 15 ft. (4.65m); Collapses to 5.1 ft. (1.57m).			
7 lbs.	C	**43039**	**$224.95**

CST/berger

CST/Berger Collet Lock 8´ Prism Pole

6514

8´, two-section collet lock prism pole constructed of high strength aluminum which is resistant to warping and breakage. Bottom section is painted in alternating sections of red and white. Graduated sections are anodized silver with uneraseable, impregnated black graduations. Features a recessed circular vial for vertical alignment. 10ths and Metric graduations.

CST/Berger Collet Lock Prism Pole		
4 lbs.	**43089**	**$98.95**

O Oversize. Ships at Oversize rate. See Shipping Information for details.

CST/berger

CST/Berger Quik-Lok™ Telescoping Prism Poles

5563

Designed for quick and easy set up.

These quality aluminum prism poles extend and lock into position in seconds. Features include electrostatically powder-coated paint, red and white stadia markings, permanent silk-screened graduations, brass tips, and tough steel points. Locking mechanisms on Quik-Lok™ as well as the leveling vials are constructed of black anodized aluminum. Graduated in10ths on one side and every 2 mm on the other. Precise adjustable 5/8 x 11 mounting stud to suit all commonly used prisms.

Two-Section Pole, Extends to 8´ (2.5m), Collapses to 4.7´ (1.44m)		
4 lbs.	**43084**	**$113.50**
Three-Section Pole, Extends to 12´ (3.6m), Collapses to 5.0´ (1.53m)		
5 lbs.	**43085**	**$134.00**
Four-Section Pole, Extends to 15´ (4.6m), Collapses to 5.3´ (1.61m)		
7 lbs.	**43086**	**$166.00**

C Combination English and Metric

CST/berger

CST/Berger Maxi-Lite™ Prism Poles

8236

Lighter than standard prism poles!

Compatible with all targets, prisms, and GPS antennas, these aluminum prism poles are 40% lighter than standard prism poles and offer extra tensile strength for superior durability. The anodized dual graduation marks won't chip, scratch, or flake. The easy grip handle with Twist Lock eliminates errors from slippage, and an internal cushion helps to absorb shock when the pole is collapsed. The pole's precise leveling vial is positioned for easy viewing.

Two-Section Pole, Extends to 8´ (2.5m), Collapses to 4.7´ (1.44m)			
3 lbs.		**43065**	**$120.95**
Three-Section Pole, Extends to 12´ (3.6m), Collapses to 5.0´ (1.53m)			
4 lbs.		**43066**	**$144.50**
Four-Section Pole, Extends to 15´ (4.6m), Collapses to 5.3´ (1.61m)			
5 lbs.	X	**43067**	**$179.95**

X Items 60″ or more require an additional handling charge.

SECO

SECO Composite 8´ Prism Pole

6513

Weighs only 60% as much as average prism poles!

Made of nonconductive composite material, the prism pole will not attract lightning and features a twist locking lever. The pole also has a Topo-Boot® which is constructed of high-impact composite material. Other features include an adjustable tip and 10ths and Metric graduations. 5/8″ x 11 adapter for prism mounting.

SECO Composite 8´ Prism Pole			
3 lbs.	O	**43068**	**$143.95**

Wood Survey Stakes pages 23 and 560

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SECO Prism Pole/ Tripod Bag
2963

This rugged bag is designed to carry a prism pole with the tripod attached. Features a fold-over flap. Constructed of Cordura® nylon and Rhinotek®. **Dimensions:** 7.5″ID x 60″L.

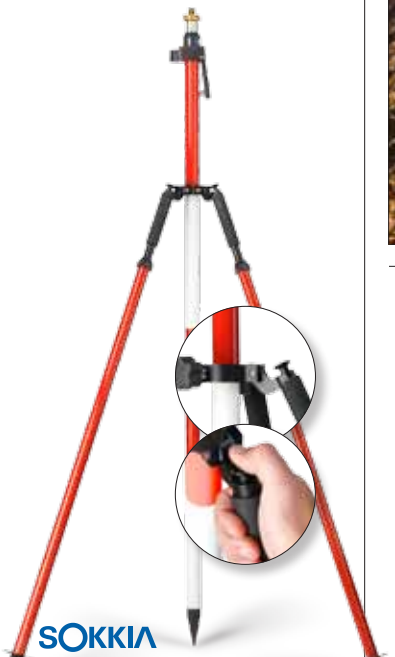
SECO Prism Pole/Tripod Bag 1 lb.	**43425**	**$49.95**

SECO

SECO Dual Hinge Quick Lever Bipod
7156

Ideal for use on steep slopes, construction sites, or industrial sites where proper leg placement could be difficult due to uneven terrain. The bipod features push button thumb release legs and dual leg hinges that move in two directions. Attach the bipod to a 1.25″ overall diameter pole (not included) using the Quick Lever lock mechanism. The legs collapse to 43″ and extend to 72″.

SECO Dual Hinge Quick Lever Bipod	6 lbs.	**43682**	**$226.95**

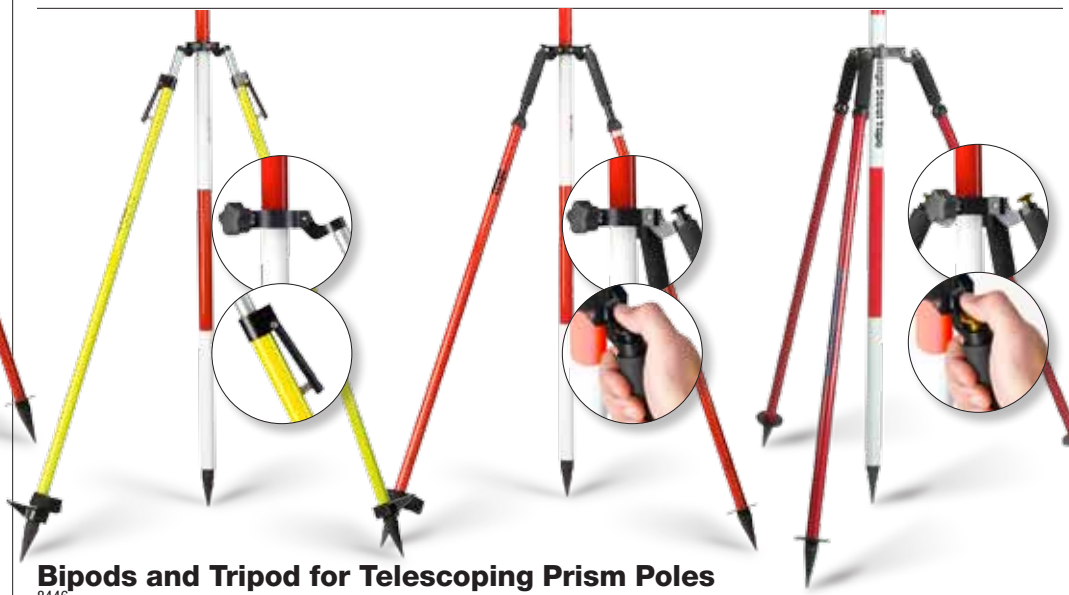


SOKKIA

Sokkia™ Thumb-Release Prism Pole Bipod
4643

Designed for quick set-up and field durability, this thumb-release prism pole bipod allows you to set up a free-standing GPS antenna pole or prism pole within seconds! Comes complete with a protective carrying case and a bipod leg clip.

Sokkia Thumb-Release Prism Pole Bipod 7 lbs.	**43678**	**$99.95**



Bipods and Tripod for Telescoping Prism Poles
8446

SECO Screw Clamp Bipod with Quick-Release Legs 6 lbs.	**43688**	**$189.25**
SECO Screw Clamp Bipod with Thumb-Release™ Legs, Legs extend to 6′, collapse to 43″ 6 lbs.	**43693**	**$153.50**
CST Screw Clamp Prism Pole Tripod with Thumb-Release Legs 9 lbs.	**43694**	**$178.95**

SOKKIA

Sokkia™ Mini Stakeout Pole
8447

1.4′H with on-board vial

Sokkia Mini Stakeout Pole 1 lb.	**43054**	**$49.95**

Accessories for Telescoping Prism Poles
8446

CST "Peanut Pack" – 1″Prism assembly with tilting 1″ mini prism, plumb bob mount, point and nylon belt case. Built-in circular vial. 11 oz.	**43061**	**$135.25**
Topo Shoe, 1″ diameter 13 oz.	**43058**	**$11.95**
Topo Shoe XL, 3″ diameter 1 lb.	**43059**	**$25.95**
Prism Pole Point with Replaceable Tip 3 oz.	**43045**	**$10.95**
Replacement Tip for 43045 1 oz.	**43046**	**$2.95**
Heads-Up Level, right-reading 8 oz.	**43050**	**$99.25**

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TOPCON

Topcon® DT-209 Waterproof Digital Theodolite

2757

The model DT-209 is a solid-performing waterproof theodolite which has a long-lasting battery life, an optical plummet, a large LCD screen, and a powerful 26X telescope.

Telescope: Magnification, 26x; Resolving power, 3″; Minimum focus, 90 cm. **Angle measurement accuracy:** 9″. **Display resolution:** Selectable, horizontal and vertical, 10″/20″ (2mgon/5mgon).

DT-209, List Price $2,590.00	9 lbs.	**37839**	**Call for $**

Sokkia™ DT940 Digital Theodolite
www.forestry-suppliers.com

Tribrachs

8479

Sokkia Optical Plummet Tribrach	2 lbs.	**43690**	**$132.95**
Sokkia Tribrach with Laser Plummet	2 lbs.	**43695**	**$149.00**
Topcon Optical Plummet Tribrach	2 lbs.	**37618**	**$399.00**
Sokkia Rotating Tribrach Adapter (Tribrach not included), 5/8″ x 11 Threads.	1 lb.	**37622**	**$41.75**
Topcon Tribrach Adapter with Removable Center, Use to adapt GPS, prisms, and target systems to most tribrachs. Features a removable center plug with 5/8″ x 11 threads and locking screw.	1 lb.	**43691**	**$54.95**

CST/berger

CST/Berger Electronic Digital Transit-Theodolite

5567

This electronic transit features a dual digital readout and measures horizontal and vertical angles using an incremental encoder detection system and vertical compensator. Key operation is very simple, and all angle readings are displayed digitally on an LCD window. The telescope optics produce a bright, erect, 30x image. Also comes complete with a 3x optical plummet which produces an extremely bright, clear image. Other features include a built-in display and crosshair illuminator for low light conditions; clockwise or counterclockwise horizontal angle measurement options; vertical angle measuring: provides three different options plus percent grade; automatic power shut-off with three options: none, 20-minute, or 30-minute; optical plummet; zero resetting; and sealed construction. Hard-shell carrying case, manual, and accessories are included.

Telescope: Magnification, 30x; Resolving power, 2.5″; Minimum focus, 53″ (1.3m). **Angle measurement accuracy:** 5″. **Display resolution:** Selectable, horizontal and vertical, 5″/10″ (3/5mog).

DGT10 Digital Theodolite, List Price: $1,395.00	21 lbs.	**43698**	**$927.00**
Heavy-Duty Aluminum Tripod	11 lbs.	**37663**	**$75.25**

SECO Traverse Tribrach

8479

Compatible with all 24.9 mm bayonet base prisms. Features include a twist-focus optical plummet with 2.5x magnification, a 60-second adjustable plate vial, and a precision-machined axis that rotates 360°. The adjustable height is 100 mm to 120 mm (fits all standard 3-prong tribrachs). Overpoint accuracy is 0.5 mm at 1.5 m.

SECO Traverse Tribrach	2 lbs.	**43692**	**$179.95**
SECO Male 5/8″x 11″ Adapter - to Bayonet	7 oz.	**43676**	**$27.95**
SECO Quick Release Adapter - to Bayonet	8 lbs.	**43677**	**$27.95**

CST/berger

CST Duralast Range Poles

2967

Poles feature alternating international orange and white ABS plastic tubing permanently attached to a high-strength aluminum core. 5/8″ x 11 Threaded joints allow for fast assembly. Includes solid steel hardened point. Outside pole diameter is 11/16″.

8′ (2.4m) Duralast Range Pole, Two 4′ Sections 3 lbs.		**43092**	**$39.95**
12′ (3.6m) Duralast Range Pole, Three 4′ Sections 5 lbs.		**43094**	**$50.95**

SECO

SECO Aluminum Range Poles

5564

High strength aluminum with orange and white, 5/8″ x 11 thread joints and steel point.

8′ Pole, two 4′ sections 4 lbs.		**43088**	**$48.95**
12′ Pole, three 4′ sections 5 lbs.		**43096**	**$71.95**
Additional 4′ Section 2 lbs.		**43090**	**$24.95**
Replacement Point, fits all poles 5 oz.		**43100**	**$9.40**
Optional Range Pole Bag – Holds three pole sections. 10 oz.		**43104**	**$19.95**

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TOPCON

Topcon® RL-H4C Self-Leveling Laser Level

7828

Combining precision, versatility, and value, this auto-leveling laser is ideal for grading, excavating, and general construction projects. A 635nm visible red beam laser diode also allows for use in interior alignment applications. The RL-H4C features super-fast self-leveling motors that are accurate to ±10 arc seconds, and the instrument's optimally focused beam provides a long 2,600 ft. (800m) operating radius. Other features include intuitive manual slope match capability with automatic cross axis self-leveling and an automatic height of instrument alert. The rugged instrument features a dual handle design and IP66 water-resistant housing. Available with 4 D cell alkaline dry batteries or rechargeable Ni-MH battery pack. Package includes RL-H4C laser, LS-80L sensor, sensor holder, batteries, charger (if using rechargeable battery pack), and carry case. Five-year warranty from the manufacturer.

Accuracy: Horizontal ±10 in. **Self-Leveling Range:** Horizontal ±5°. **Working Area (Diameter):** 2,600 ft. (800m). **Rotation Speed:** 600 rpm. **Light Source:** Visible Laser, 635 nm. **Laser Power:** 2.4mW. **Laser Class:** Laser Safety CDRH (FDA) III a JIS/IEC 3R. **Operating Time:** With 4 D Cell Alkaline Manganese Dry Batteries, 100 hours; With Rechargeable Ni-MH Battery Pack BT-67Q, 60 hours. **Operating Temperature:** -4°F to 122°F (-20°C to 50°C). **Dimensions:** 8.5″H x 7.7″W x 7″L.

RL-H4C with Alkaline Batteries	13 lbs.	**43841**	**$795.00**
RL-H4C with Rechargeable Battery Pack	14 lbs.	**43835**	**$950.00**
Replacement LS-80L Laser Sensor	8 oz.	**37575**	**$275.00**
Replacement Sensor Holder	8 oz.	**37763**	**$60.00**

TOPCON

Topcon® RL-SV2S Dual-Slope Laser Level

2783

This versatile laser level can be used for horizontal, multi-slope, and vertical laser applications. Turn the RL-SV2S on its side for use in layout and alignment jobs. An operating radius of over 2,600 feet (800 meters) makes the laser perfect for even the biggest projects. The RL-SV2S offers horizontal and vertical accuracy of ±10″ and utilizes a 635nm visible laser diode. Use the front control panel with display or the included remote control to easily access the laser level's functions. The laser level also features a numeric dual grade setting range of ±5%. The rugged instrument features a dual handle design and is IP66-rated against water and dust. Available with 4 D dry cell alkaline batteries or a rechargeable Ni-MH battery pack. Package includes RL-SV2S laser, RC-60 remote controller, LS-80L level sensor, sensor holder, battery holder, batteries, charger (if using rechargeable battery pack), and carrying case.

Accuracy: Horizontal, ±10″; Vertical, ±10″. **Automatic Correction Range:** Horizontal, ±5°; Vertical, ±5°. **Numeric Grade Setting Range (Dual):** ±5%. **Working Area (Diameter):** 2,600 ft. (800m). **Rotation Speed:** 300/600 rpm (Changeable). **Light Source:** Visible laser diode, 635 nm. **Laser Output:** 2.4mW. **Laser Class:** CDRH (FDA) Class IIIa, IEC Class 3R. **Operating Time:** With 4 D Dry Cell Batteries (Alkaline), 120 hours; With Rechargeable Ni-MH Battery Pack BT-74Q, 65 hours. **Operating Temperature:** -4°F to 122°F (-20°C to 50°C). **Dimensions:** 8.5″H x 7.7″W x 7″L.

Topcon RL-SV2S Dual-Slope Laser Level with Alkaline Batteries	14 lbs.	**43851**	**$2196.00**
Topcon RL-SV2S Dual-Slope Laser Level with Rechargeable Battery Pack	15 lbs.	**43852**	**$2152.80**

Topcon® LS-B10 Laser Receiver

7937

Versatile and lightweight, this laser receiver features 4 on-grade zone selections (LED) from coarse to fine grade, 11 LCD grade channels with 5 gradual triangles for out-of-grade indication, and a 270° detection range. An integrated magnetic mount allows for easy installation on small machinery. Other features include an accuracy mode, battery life indicator, and power save/auto shutoff function. Waterproof to IP66.

Power: 3 AA batteries. **Dimensions:** 4.53″ x 1.57″ x 7.09″. **Weight:** 1.2 lbs. (without batteries).

Topcon LS-B10 Laser Receiver	4 lbs.	**43707**	**$599.95**

Topcon® LS-B100 Laser Receiver

7938

This laser receiver provides grade indication by bright, multi-color LEDs that are visible even in dusty conditions. The LS-B100 also offers 360° beam detection, features on-grade matching, and is wireless and CAN compatible. The unit features a mechanical clamp-type mount for fast, secure, slip-free placement on machinery. Other features include an accuracy mode, plumb/tilt indication, battery life indicator, and power save/auto shutoff function. Waterproof to IP66.

Power: 4 C batteries (included). **Dimensions:** 6.2″ x 6.5″ x 14.0″ (with mechanical clamp). **Weight:** 4.4 lbs. (without batteries).

Topcon LS-B100 Laser Receiver	5 lbs.	**43708**	**$1150.00**

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New! Spectra Precision® LL100N Laser Level

4948

Setting a new standard for reliability and affordability, the fully automatic, self-leveling LL100N can handle a variety of general construction applications. By sending a 360° plane of laser light over an entire work area, the LL100N allows one person to take self-leveled elevation measurements using the included HR320 laser receiver. The HR320 provides two on-grade sensitivities and features grade displays on the front and back. In order to guard against erroneous readings, the LL100N's Height of Instrument Alert stops laser rotation if the elevation changes. Easy, one-button operation requires minimal training, and an energy-efficient design ensures long battery life. The water-resistant laser level withstands drops up to 3 feet (1 meter) onto concrete and tripod tip-overs up to 5 feet (1.5 meters).

3 Manufacturer's Warranty 3 Year

LL100N Laser Specifications – Laser Source: 650 nm visible, Class 2. **Laser Accuracy:** ±1/8″ at 100′ (±3 mm at 30 m). **Rotation Speed:** 600 rpm. **Operating Range (Diameter):** 1,150′ (350 m) with HR320 Receiver. **Self-Leveling Range:** ±5°. **Compensation Method:** Electronic self-leveling. **Power:** 2 D alkaline batteries (included). **Battery Life:** 80 hours. **Operating Temperature:** 23°F to 113°F (-5°C to 45°C). **Water Resistant:** Yes, IP54 sealing. **Dimensions:** 8.5″L x 6.7″W x 6.0″H. **Weight:** 3.3 lbs. **Warranty:** Three-year limited warranty. **HR320 Receiver Specifications – Two On-Grade Sensitivities:** Fine, 1/16″ (2 mm); Standard, 1/4″ (6 mm). **LCD Channels:** 5. **Battery Life:** 70 hours. **Automatic Shutoff:** 30 minutes. **Dust and Waterproof:** Yes, IP67. **Weight:** 12 oz. **Warranty:** Two years.

LL100N Laser Level with HR320 Laser Receiver,
List Price: $695.00
15 lbs. **43749** **$605.00**

LL100N Laser Level Package – Includes laser level, HR320 laser receiver, clamp, tripod, 15′ grade rod graduated in inches, and case. **List Price: $795.00**
O 30 lbs. **43750** **$690.00**

Spectra Precision® LL300N Laser Level

7704

The fully automatic, self-leveling LL300 allows for fast, accurate setup and increases productivity. Waterproof and dustproof, the LL300 features "hard hat" rotor protection and can withstand drops of up to 3 feet (1 meter) directly onto concrete or up to 5 feet (1.5 meters) when pushed over on a tripod. The included HL450 Laserometer features a 4″(102 mm) reception height for fast beam acquisition, and an anti-strobe sensor prevents construction site strobe lights from setting it off. The HL450 displays a digital readout of elevation on large front and rear LCD's to show how far the elevation is from on-grade.

LL300 Laser Specifications – Laser Source: 635 to 670 nm visible, Class 3A/3R. **Laser Accuracy:** 3/32″ per 100′ (2.2 mm per 30 m) 15 arc seconds. **Rotation Speed:** 600 rpm. **Operating Receiver Range (Diameter):** 1,300′ (400 m) with HL450 Receiver. **Self-Leveling Range:** ±5°. **Compensation Method:** Electronic self leveling. **Power:** 4 D alkaline batteries (included). **Battery Life:** 90 hours.

5 Manufacturer's Warranty 5 Year

Operating Temperature: -4°F to 122°F (-20°C to 50°C). **Waterproof:** Yes, IP54. **Dimensions:** 9.6″L x 6.5″W x 7.3″H. **Weight:** 6 lbs. **Warranty:** Five years. **HL450 Laserometer Specifications – Reception Height:** 4″ (102 mm). **Digital Readout Height:** 3″ (76 mm). **On-Grade Sensitivities:** Fine, 1/16″, 0.05″, 1 mm; Medium, 1/4″, 0.20″, 5 mm. Operating Range (diameter); 1,300′ (400 m). **Number of Display Channels:** 21. **Decibel Level:** Low, 65 dBa; Loud, 100+ dBa. **Power:** 2 AA batteries. **Battery Life:** 70 hours. **Waterproof:** Yes, IP67. **Weight (without clamp):** 13.1 oz. **Warranty:** Three years.

LL300N Laser Level with HL450 Laserometer,
List Price: $895.00
18 lbs. **43747** **$775.95** **$699.95**

LL300N Laser Level Package – Includes laser level, HL450 Laserometer, 15′ level rod graduated in tenths, and aluminum tripod. **List Price: $999.00**
32 lbs. **43744** **$865.95** **$799.95**

New! HL450 Laserometer with C45 Rod Clamp
2 lbs. **43740** **$254.95**

Spectra Precision® GL422 Grade Laser

7705

5 Manufacturer's Warranty 5 Year

This self-leveling dual grade laser provides fast, easy horizontal level, grade, and vertical plumb setup with no manual leveling. The GL422 sends a continuous, self-leveled 360° laser reference over the entire work area, and the long operating range of 800 m (2,600 feet) increases machine control capability and reduces setups over the job site. The laser beam can be turned off electronically on up to three sides of your choice, preventing the beam from straying into nearby work areas and interfering with other crews on the job site. A two-way, full-function radio remote control allows you to make grade changes from anywhere on the job site, resulting in reduced setup time. Other features include pointing mode for "Over the Top" pipe laying applications and grade match for measuring the existing grade value between two known elevation points. The included HL700 Laserometer measures and displays beam location and features dual-sided LCD's. The HL700 displays how far you are from on-grade, allowing for fast elevation checks without moving the rod clamp. A large 127 mm (5″) reception height speeds beam pickup in grade match and alignment applications. The HL700's anti-strobe sensor prevents construction lights from setting off the receiver so that true laser beam signals are more easily identified.

GL422 Specifications – Laser Type/Class: <5 mW 635 nm, Class 3A/3R. **Operating Diameter:** 800 m, 2,600′. **Compensation Method:** H/V Electronic self leveling. **Level/Vertical Accuracy:** 10 arc seconds, 1.5 mm @ 30 m (1/16″ @ 100′). **Grade Range:** -10 to +15% Dual Axes. **Grade Accuracy:** 0.015% 3 mm @ 30 m (1/8″ @ 100′). **Grade Resolution:** 0.001% up to 9.999%, 0.01% at higher grades. **Rotation Speed:** 0, 300, 600 rpm selectable. **Drop Height on Concrete:** 1 m (3′). **Transmitter Battery Life (with 4 D rechargeable NiMH batteries, included):** 55 hours. **Operating Temperature:** -20°C to 50°C (-4°F to 122° F). **Dimensions:** 8.3″L x 7.1″W x 7.9″H. **Weight:** 6.8 lbs. **Warranty:** Five years. **HL700 Specifications – Readout Units of Measure:** mm, cm, ft., in., fractional in. **Reception Height/Angle:** 127 mm (5″)/90°. **Battery Life:** 60+ hours continuous operation. **Weight:** 9.5 oz. **Dustproof and Waterproof:** Yes, IP67. **Warranty:** Three years.

GL422 Grade Laser with HL700 Laserometer,
List Price: $2,395.00
18 lbs. **43746** **$2075.95** **$1895.00**

O Oversize. Ships UPS 30 lb. rate.

[search engine powered by magazooms.com]

CST/berger

Electronic Self-Leveling Exterior Rotary Lasers

8480

3 Manufacturer's Warranty 3 Year

Accurate and reliable, these lasers provide up to 1/16″ accuracy at 100′, plus the high-powered laser has up to a 2,800′ range. The durable, robust design makes them ideal for the toughest jobsites, and they are both water- and dust-proof (IP67).

ALH Horizontal Rotary Laser

Single-slope capable with electronic cross-axis leveling makes the ALH ideal for exterior applications such as grading and excavating, concrete forms, machine control, site prep, marking elevation, landscaping, driveway paving. Laser comes with an LD440 Detector w/ Clamp, 4 D cell batteries, 2 AA batteries, a carrying case, and a User's Manual.

ALH Horizontal Rotary Laser with Detector — 15 lbs. **43780** **$928.00**

ALHV Horizontal/ Vertical Rotary Laser

Dual-slope capable in both horizontal and vertical position with cross-axis leveling make the ALHV suitable for indoor and outdoor jobs. Laser comes with a remote, an LD440 Detector w/Clamp, laser glasses, 2 magnetic targets, a V-Mount, 4 D cell batteries, 4 AA batteries, a carrying case, and a User's Manual.

ALHV Horizontal/Vertical Rotary Laser with Detector — 16 lbs. **43782** **$1089.00**

LD-440 Electronic Laser Detector

ALGR Dial-In Horizontal/ Vertical Rotary Laser

The power and precision of the ALGR is designed for the professional who needs optimum versatility. Dual dial-in grade, horizontal and vertical self-leveling, with all features easily accessed via the on-board LCD screen. Laser comes with a remote, an LD440 Detector w/Clamp, 4 D cell batteries, 4 AA batteries, a carrying case, and a User's Manual.

ALGR Dial-In Horizontal/Vertical Rotary Laser with Detector — 16 lbs. **43784** **$1338.00**

		ALH Horizontal			ALHV Horizontal/Vertical			ALGR Dial-In Horizontal/Vertical		
Accuracy	Horizontal	±1/16″ @ 100′ (±1.5mm @ 30m)			±1/16″ @ 100′ (±1.5mm @ 30m)			±1/16″ @ 100′ (±1.5mm @ 30m)		
	Vertical	—			±1/8″ @ 100′ (±3mm @ 30m)			±1/8″ @ 100′ (±3mm @ 30m)		
Laser Diode		650nm, 5mW			635nm, 10mW			635nm, 10mW		
Range		Up to 2800′ (850m) Diameter with Detector			Up to 2800′ (850m) Diameter with Detector			Up to 2800′ (850m) Diameter with Detector		
Leveling Type	Electronic Self-leveling	±5º			±5º			±5º		
Grade/Slope		Manual Single-Slope – Cross Axis			Manual Dual-Slope – Cross Axis			Dual Dial-In Grade		
Environment		All-weather general construction			All-weather general construction			All-weather general construction		
Manufacturer's Warranty		3 years			3 years			3 years		
Power	Batteries (included)	4 D cells and 2 AA			4 D cells and 4 AA			4 D cells and 4 AA		
	Optional	Ni-MH battery pack with charger			Ni-MH battery pack with charger			Ni-MH battery pack with charger		
Accessories										
New! RD5 Detector with Rod Clamp		3 lbs.	**43799**	**$209.95**	3 lbs.	**43799**	**$209.95**	3 lbs.	**43799**	**$209.95**
Aluminum 5/8″ x 11 Tripod,Quick Release		11 lbs.	**37663**	**$75.25**	11 lbs.	**37663**	**$75.25**	11 lbs.	**37663**	**$75.25**
8′ CST Aluminum Rod, feet/10ths/100ths		2 lbs.	**43551**	**$40.50**	2 lbs.	**43551**	**$40.50**	2 lbs.	**43551**	**$40.50**
8′ CST Aluminum Rod, feet/inches		3 lbs.	**43552**	**$38.90**	3 lbs.	**43552**	**$38.90**	3 lbs.	**43552**	**$38.90**
Ni-MH battery pack with charger		2 lbs.	**43814**	**$137.00**	2 lbs.	**43814**	**$137.00**	2 lbs.	**43814**	**$137.00**

2 Manufacturer's Warranty 2 Year

CST/Berger RL25H Self-Leveling Exterior Rotary Laser

2440

This electronic rotary laser features 3/32″ leveling accuracy and an extended range of 2,000 feet. Single axis slope control allows you to change the laser's slope for complex leveling applications like excavation or leveling concrete forms. An Anti-Drift System alerts you when the laser has drifted from the benchmark. IP56 rated against water and dust, the laser features a glass-enclosed top housing to ensure maximum weather and environmental protection. Thick over-mold in key impact areas of the housing offers protection from a 1m (3 ft.) drop. Three D-cell alkaline batteries provide up to 85 hours of runtime, and a battery level gauge alerts you when the battery charge is low. Rotary laser, RD5 detector, bracket, and hard carrying case included. Two-year manufacturer's warranty.

Working Range With Receiver: 2,000 ft. (609.6m). **Accuracy:** ±3/32″ at 100 ft. (±0.08mm/m). **Self-Leveling Range (typically):** ±8% (±5°). **Laser Class:** 2. **Laser Type:** 650 nm, <1 mW. **Power:** 3 D alkaline batteries. **Battery Life:** 85 hours. **Operating Temperature:** 14°F to 122°F (-10°C to 50°C).

CST/Berger RL25H Self-Leveling Exterior Rotary Laser — 15 lbs. **43771** **$695.00**

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43775

SmartTool™
4004

Electronic level reads in degrees, percent slope, and pitch!

Durable and easy to use, the SmartTool™ digitally displays degrees, percent slope, and pitch (rise over run) to 1/10 degree accuracy. Simply press the on/off button to see the angle of any surface. The convenient user-oriented display always reads right side up. Also features an audible tone alert when the tool reaches level or plumb and push-button calibration. Housed in a rugged, high impact-resistant ABS polymer case. Includes 9V battery.

SmartTool Sensor in a 60cm (24″) Rail	2 lbs.	**43773**	**$157.75**
SmartTool Sensor in a 120cm (48″) Rail	3 lbs.	**43774**	**$189.25**
SmartTool Module - can be used alone or with carpentry and construction levels	11 oz.	**43775**	**$146.50**
SmartTool Level Case, 24″	7 oz.	**43776**	**$17.25**
SmartTool Level Case, 48″	13 oz.	**43777**	**$28.95**

Use for planning, landscape design, grade work, foundations, building inspection. One Person Operation! Use in place of a rotary laser or builder's level.

Technidea ZIPLEVEL® PRO-2000 Precision Altimeter
7245

Unlike conventional instruments, ZIPLEVEL sets up in seconds rather than minutes, permitting one person to level and read elevations to within 0.1″ regardless of distance – no lasers, sensors, rods, tripods, calculations, or line-of-sight needed! ZIPLEVEL consists of a base unit and a handheld measurement module connected by a rugged, flexible cord. The cord transmits the elevation difference between the base unit and measurement module relative to a reference plane set by pressing the Zero key. Each press of the Zero key is equivalent to factory calibration of a conventional level, assuring accuracy each time. Powerful built-in functions allow ZIPLEVEL to display readings in your favorite scale, measure over unlimited distances or elevations (differential level) without calculations, display sea level elevations, set audible limits, average unlimited readings, or dump data to a PC for job site profiles, 3D maps, or topo maps.

Setup Vertical Range: 40′ (20′ above and below base unit). **Setup Horizontal Range:** 200′ circle (100′ cord). **Functions:** 16 + PC serial port. **Scales:** Inches, feet, and meters. **Resolution:** Reads to 0.1″, 1/8″, 0.01′, 2mm with ±0.050″ precision. **Typical Isothermal Accuracy:** Greater of 0.1″ or 0.15% reading. **Temperature Range:** Storage, -40°F to +158°F; Operating, -22°F to +158°F. **Drop Resistance:** Measurement Module, 5′; Base Unit, 3′. **Power:** 9V battery. **Battery Life:** One year of typical daily use. **Memory:** Settings and 137 readings saved indefinitely with or without battery. **Dimensions:** Measurement Module, 3.75″H x 4.75″W x 1.75″D; Base Unit, 16″H x 10.5″W x 7.5″D. **Weight:** 12 lbs.

Technidea ZIPLEVEL PRO-2000 Precision Altimeter	C	13 lbs.	**43770**	**$899.00**

CST/berger

CST/Berger 200B Builder's Transit Level Package
5586

20x Magnification

Fast set-up and simple to use. Kit includes a 20x transit level, an aluminum extension leg tripod (63″ open, 38″ closed), an 8′ telescoping aluminum rod (feet & inches), a carrying case, and manual. Uses 5/8″ x 11 thread. Horizontal circle reads to 15′.

Telescope - Length: 11.5″; **Image:** Erect; **Objective aperture:** 15/16″; **Magnification:** 20x; **Field of view (at 100):** 2′; **Minimum focus:** 3-1/2′. **Horizontal Circle - Diameter:** 3-3/4″; **Reading:** 15′. **Vertical Circle - Diameter:** 2-1/4″; **Vernier:** 1°. **Sensitivity - Circular level:** 7.5′/2mm. **Weight - Instrument:** 3-1/4 lbs.; **Case:** 4 lbs. **Tripod Threads:** 5/8″ x 11.

200B 20x Transit Level Package with Horizontal Circle and Vertical Arc, **List Price: $580.00**	O	19 lbs.	**43792**	**$385.00** **$355.00**

CST/berger

CST/Berger 20x Automatic Level Package
5589

Designed strictly for leveling!

Fast set-up and simple to use. Kit includes a 20x level, an aluminum extension leg tripod (63″ open, 38″ closed), an 8′ telescoping aluminum rod (feet & inches), a carrying case, and manual. Uses 5/8″ x 11 thread.

Telescope - Length: 11.5″; **Image:** Erect; **Objective aperture:** 15/16″; **Magnification:** 20x; **Field of view (at 100):** 2′; **Minimum focus:** 4-1/2′. **Horizontal Circle - Diameter:** 3-3/4″; **Reading:** 15′. **Sensitivity - Circular level:** 7.5′/2mm. **Weight - Instrument:** 2-3/4 lbs.; **Case:** 4 lbs.

20x Level Package with No Circle, **List Price: $360.00**		16 lbs.	**43791**	**$260.00** **$240.00**

David White

David White LT8-300P with Optical Plummet
5581

26x Magnification

Horizontal and vertical circle graduated 1°. Includes carrying case, sunshade, rain hood, lens cap and manual. 5/8″ x 11 thread.

Magnification: 26x. **Sighting range:** up to 400 feet. **Accuracy:** 3/16″ @ 150′. **Telescope - Length:** 8-1/2″; **Objective aperture:** 1.26″; **Magnification:** 26x; **Field of view (at 100):** 1′9″; **Minimum focusing:** 6′; **Stadia ratio:** 100. **Horizontal Circle - Diameter:** 117mm/4-5/8″; **Vernier:** 5′. **Vertical Circle - Vernier:** 5′. **Level Sensitivity - Telescope level:** 110-120″/2mm.

LT8-300P with Optical Plummet, **List Price: $1,050.00**		15 lbs.	**43861**	**$935.00**
Heavy-Duty Aluminum Tripod – 5/8″ x 11 Tripod with Quick Release Clamps. 65″ extended; 42″ retracted.		11 lbs.	**37663**	**$75.25**
8′, 3-section in feet/10ths/100ths Telescoping Aluminum Rod	E	2 lbs.	**43551**	**$40.50**

E English
O Oversize. Ships UPS 30 lb. rate. See Shipping Information for details.

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DESKTOP. TABLET. MOBILE.
THE NEW
FORESTRY-SUPPLIERS.COM

SOKKIA

New! Sokkia™ B Series Automatic Levels

4881

Rugged and reliable, these automatic levels incorporate a field-proven compensator for excellent accuracy. The telescope features a two-speed focus knob and provides a bright, sharp view to reduce operator eyestrain. Quick collimation and horizontal angle measurement ensure fast, easy aiming of layout and alignment tasks. Built to withstand harsh environmental conditions, each automatic level is tightly sealed against water, humidity, and dust (IPX6).

B20, 32x Magnification, List Price: $1,395.00	8 lbs.	**37728**	**$995.00** **$905.00**
B30, 28x Magnification, List Price: $595.00	7 lbs.	**37727**	**$469.95** **$385.00**
B40, 24x Magnification, List Price: $295.00	7 lbs.	**37726**	**$239.95** **$200.00**

		B20	B30	B40
Telescope	Magnification	32x	28x	24x
	Objective Lens Diameter	42mm	36mm	32mm
	Field of View (at 100)	1°20′	1°25′	1°25′
	Minimum Focus	1′ (0.3m)	1′ (0.3m)	1′ (0.3m)
Automatic Leveling, Compensator	Compensating Range	±15′	±15′	±15′
Accuracy	1km Double Run Level	±0.7mm	±1.5mm	±2.0mm
Coarse Sighting		Gun sight	Gun sight	Gun sight
Weight	Instrument	4.08 lbs.	3.75 lbs.	3.75 lbs.

CST/berger

CST/Berger SAL Automatic Level Kits

6789

These economical kits include an automatic level with case and accessories, as well as a 5/8″ x 11 thread tripod and an 8′ rod graduated in inches. Choose from two available kits.

SAL 24 Telescope - Length: 8″; **Image:** Erect; **Objective aperture:** 1.2″; **Magnification:** 24x; **Field of view (at 100):** 1°20′; **Resolving power:** 3.5″; **Minimum focus:** 1′; **Stadia ratio:** 1:100. **Horizontal Circle - Diameter:** 4″; **Reading:** 1°. **Compensator - Damping system:** Magnetic; **Setting accuracy:** ±0.5″; **Range:** ±10′. **Sensitivity - Circular level:** 8′/2mm. Accuracy - 1 km dbl. **run leveling:** ±2.0mm. **Weight - Instrument:** 3.15 lbs.; **Case:** 2.8 lbs. **Tripod - 5/8″ x 11**
SAL 20 Telescope - Length: 8″; **Image:** Erect; **Objective aperture:** 1.2″; **Magnification:** 20x; **Field of view (at 100):** 1°20′; **Resolving power:** 3.5″; **Minimum focus:** 1′; **Stadia ratio:** 1:100. **Horizontal Circle - Diameter:** 4″; **Reading:** 1°. **Compensator - Damping system:** Magnetic; **Setting accuracy:** ±0.5″; **Range:** ±10′. **Sensitivity - Circular level:** 8′/2mm. **Accuracy - 1 km dbl. run leveling:** ±2.3mm. **Weight - Instrument:** 3.15 lbs.; **Case:** 2.8 lbs. Tripod - 5/8″ x 11

CST/Berger SAL 20x Automatic Level Kit List Price: $480.00 22 lbs.	**37718**	**$285.95** **$265.00**
CST/Berger SAL 24x Automatic Level Kit List Price: $516.00 20 lbs.	**37719**	**$299.95** **$275.00**

Safety Vests
pages 573 thru 576

CST/berger

CST/Berger SAL Series Automatic Levels

7312

Designed for construction and engineering professionals who demand accurate leveling, these automatic levels set up fast and are easy to use. The magnetically-dampened, wire-hung compensator provides optimum range and accuracy. A compensator lock protects the instrument during transport or storage and also functions as a compensator checking tool. The top-mounted optical peep-sight provides quick reference. Other features include a precise focusing knob, horizontal circle, right angle prism for easy bubble viewing, and fine motion knobs on the left and right sides with friction-braked rotation and endless horizontal drive. Water-resistant, sealed construction. The levels use 5/8″ x 11 tripods (sold separately). All models include a plumb bob, Allen wrench, adjusting pin, instruction manual, and hardshell carrying case.

Berger SAL 32 Automatic Level, List Price: $645.00	7 lbs.	**37734**	**$300.00**
Berger SAL 24 Automatic Level, List Price: $450.00	7 lbs.	**37736**	**$199.95**

		SAL 32	SAL 24	SAL 20 Kit
Telescope	Magnification	32x	24x	20x
	Objective Lens	1.2″(30mm)	1.2″(30mm)	1.2″(30mm)
	Field of View (at 100)	1°20′	1°20′	1°20′
	Minimum Focus	1′ (0.3m)	1′ (0.3m)	1′ (0.3m)
Automatic Leveling, Compensator	Compensating Range	±15′	±15′	±15′
Accuracy	1km Double Run Level	±1.0mm	±2.0mm	±2.5mm
Horizontal Circle	Minimum Division	1° (1g)	1° (1g)	1° (1g)
Weight	Instrument	4 lbs.	4 lbs.	4 lbs.
	Case	2.8 lbs.	2.8 lbs.	2.8 lbs.

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TOPCON

Topcon® AT-B Series Automatic Levels

7563

Download Spec Sheet www.forestry-suppliers.com

Utilizing a finely tuned magnetic damping system, AT-B series automatic levels quickly level and stabilize the line of sight. These precision instruments ensure reliable leveling even when working near heavy equipment or busy highways where fine vibrations could be present. The automatic levels feature IPX6 protection against powerful water jets from all directions and are fully resistant to driving rain and splashing water.

AT-B2 – 32x Magnification, List Price: $1,395.00	5 lbs.	**37723**	**$995.00**
AT-B3 – 28x Magnification, List Price: $595.00	4 lbs.	**37724**	**$425.00**
AT-B4 – 24x Magnification, List Price: $295.00	4 lbs.	**37725**	**$250.00**

Topcon® AT-B Series Automatic Kits

Includes Auto Level, Aluminum Tripod (37663), and 16´ Level Rod (43555).

AT-B2 Automatic Level Kit	31 lb.	**38823**	**$1095.00**
AT-B3 Automatic Level Kit	31 lb.	**38824**	**$525.00**
AT-B4 Automatic Level Kit	31 lb.	**38825**	**$360.00**

	AT-B2	AT-B3	AT-B4
Objective Lens Diameter	42mm	36mm	32mm
Magnification	32x	28x	24x
Accuracy 1 km Double Level Run	±0.7mm	±1.5mm	±2.0mm
Coarse Sighting	Peep sight	Peep sight	Gun sight
Weight	4.08 lbs.	3.75 lbs.	3.75 lbs.

Nikon

Nikon® AS-2/AE-7/AP-8/AC-2S/AX-2S Automatic Levels

7311

Download Spec Sheet www.forestry-suppliers.com

Compact, lightweight, and rugged, these automatic levels feature Nikon's world-renowned optics to provide bright, clear images. Because the optics let in more light, you can see more detail with less distortion, particularly in low-visibility conditions. The superior optics allow you to aim more precisely and are also easier on your eyes to make long workdays more comfortable. Easy to set up and use, all models feature a friction brake that eliminates the need for horizontal alignment clamps and allows for rapid rotation. Each model can be attached to a either flat- or spherical-head tripod (sold separately).

The AS-2 and AE-7 models are shock-resistant, waterproof, and airtight for use in the most humid, wet environments. These models feature an automatic air-dampened compensator that prevents magnetic interference. An endless horizontal fine drive ensures smooth, precise pointing and angular measurement. You can find your target quickly through the optical sight lens, and a mirror with a pentaprism allows you to view the circular bubble as an erect image during setup and sighting. The AS-2 and AE-7 each include adjusting pins, lens cap, and carrying case.

The AP-8, AC-2S, and AX-2S models are water-resistant and feature a built-in magnetic-dampened automatic compensator to level the line of sight. Horizontal tangent knobs with an unlimited range provide smooth, precise pointing and angular measurement. The AP-8, AC-2S, and AX-2S each include an objective lens cap, built-in angle circle, adjustment tool, vinyl dust cover, and carrying case.

Nikon AS-2 Automatic Level, List Price: $1,550.00	9 lbs.	**37710**	**$1256.00**
Nikon AE-7 Automatic Level, List Price: $1,250.00	9 lbs.	**37711**	**$1004.00**
Nikon AP-8 Automatic Level, List Price: $705.00	6 lbs.	**37712**	**$527.00**
Nikon AC-2S Automatic Level, List Price: $465.00	6 lbs.	**37713**	**$293.00**
Nikon AX-2S Automatic Level, List Price: $335.00	6 lbs.	**37716**	**$244.00**

Nikon® Automatic Level Kits

Includes automatic level, aluminum tripod, and 16´ level rod.

AS-2 Auto Level Kit	30 lbs.	**38810**	**$1300.00**
AE-7 Auto Level Kit	30 lbs.	**38811**	**$1075.00**
AP-8 Auto Level Kit	27 lbs.	**38812**	**$600.00**
AC-2S Auto Level Kit	27 lbs.	**38813**	**$375.00**
AX-2S Auto Level Kit	27 lbs.	**38816**	**$340.00**

		AS-2	AE-7	AP-8	AC-2S	AX-2S
Telescope	Magnification	34x	30x	28x	24x	20x
	Objective Lens	1.77″ (45mm)	1.57″ (40mm)	1.2″ (30mm)	1.2″ (30mm)	1.2″ (30mm)
	Field of View (at 100)	1°20´	1°30´	1°30´	1°30´	1°30´
	Minimum Focus	3.28´ (1.0m)	0.98´ (0.3m)	2.46´ (0.75m)	2.46´ (0.75m)	2.46´ (0.75m)
Automatic Leveling	Compensating Range	±12´	±16´	±16´	±16´	±16´
Accuracy	1km Double Run Level	±0.8mm	±1.0mm	±1.5mm	±2.0mm	±2.5mm
Horizontal Circle	Minimum Division	N/A	N/A	1° (1g)	1° (1g)	1° (1g)
Weight	Instrument	4.0 lbs.	3.7 lbs.	2.8 lbs.	2.8 lbs.	2.8 lbs.
	Case	3.4 lbs.	3 lbs.	2 lbs.	2 lbs.	2 lbs.

TOPCON

Auto Level Kits...

Choose from Three Different Topcon Models!

Kit includes:
Auto Level, Aluminum Tripod and 16´ Level Rod.

Starting as low as $360.00!

Nikon

Auto Level Kits...

Choose from Five Different Nikon Models!

Kit includes:
Auto Level, Aluminum Tripod and 16´ Level Rod.

Starting as low as $340.00!

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FORESTRY SUPPLIERS

Forestry Suppliers Heavy-Duty Fiberglass 5/8″ x 11 Tripod

8481

All-Weather Fiberglass

Extension leg tripod with heavy-duty Quick Clamp, extra-strength honeycomb fiberglass dowels, and heavy-duty composite shoe with steel point. 72″ Extended, 42″ retracted.

Forestry Suppliers Fiberglass Tripod 19 lbs.	**37682**	**$123.95**

FORESTRY SUPPLIERS

Forestry Suppliers Heavy-Duty Wood 5/8″ x 11 Tripod

5547

Wood extension leg tripod with screw clamps. 72″ extended; 42″ retracted. Integrated carrying handle in one leg.

Heavy-Duty Wood Tripod 21 lbs.	**37671**	**$141.25**

FORESTRY SUPPLIERS

Forestry Suppliers Heavy-Duty Aluminum 5/8″ x 11 Tripods

5547

Extension leg tripods with screw or quick-release clamps. 65″ extended; 42″ retracted.

With Screw Clamps 12 lbs.	**37555**	**$74.50**
With Quick Release Clamps 11 lbs.	**37663**	**$75.25**
With Domed Head and Quick Release Clamps 13 lbs.	**37677**	**$87.95**

TOPCON

Topcon® Heavy-Duty Wood 5/8″ x 11 Thread Tripod

5602

TP-10 Wood Extension leg tripod with Quick Clamp Screw leg locks. 72″ extended; 42″ retracted.

TP-10 Wood Extension Leg. 72″ extended; 42″ retracted. 21 lbs.	**37658**	**$249.95**

SECO Soft Side Tripod Bag

5604

Makes carrying your tripod to and from job sites a cinch!

This durable, lightweight, water-resistant Cordura® bag features a reinforced bottom plate, two drawstring ties, and 3 big outside pockets. **Dimensions (approx.):** 50″L x 13-1/2″W.

Soft Side Tripod Bag	2 lbs.	**43431**	**$49.75**

Tripod Adapters

5610

Tripod Adapter Permits 5/8″ x 11 thread tripod to operate with 3-1/2″ x 8 thread instruments	11 oz.	**43701**	**$51.95**
Permits 3-1/2″ x 8 thread tripod to operate with 5/8″ x 11 thread instruments	1 lb.	**43705**	**$59.95**

Measure for Measure

5665

By Richard A. Young and Thomas J. Glover. Contains over 39,000 conversions for over 5,100 different units, thousands of foreign and ancient conversion factors, and values listed in both standard and scientific notation. Chapters are included on Base Units, SI (System International), equivalent units, formulas, physical constants and definitions. 4″ x 6″. 864 Pages. Lexotone® cover.

Measure for Measure	12 oz.	**59918**	**$14.95**

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FORESTRY SUPPLIERS

Forestry Suppliers Heavy-Duty Wood/Fiberglass 5/8″ x 11 Tripod

2441

Heavy-duty dual clamp tripod. Wood legs and extra-strength honeycomb fiberglass dowels. 72″ extended; 42″ retracted.

Forestry Suppliers Heavy-Duty Wood/ Fiberglass 5/8″ x 11 Tripod			
21 lbs.		**37694**	**$126.95**

CST/berger

CST/Berger 864, 1/2″ x 20 Thread Tripod

5609

Aluminum extension leg with quick release clamps. 63″ extended; 38″ retracted. Round dowels.

Berger 864, 1/2″ x 20 Thread Tripod			
8 lbs.		**43685**	**$85.50**

CST/berger

New! CST Model TP10F Fiberglass Tripod

5603

This great value fiberglass tripod is lightweight, stable and sturdy. Weighing under 12 pounds, it has a closed height of just over 41″ and an extended height of 67″. Standard 5/8 x 11 thread with a flat head, quick clamp locking.

Model TP10F Fiberglass Tripod			
14 lbs.		**37524**	**$99.95**

CRAIN Delivering Real Innovation

Crain® Tri-Max Composite Tripod

Made in USA

4215

5/8″ x 11 Thread. Fiberglass Composite.

Super heavy-duty extension leg tripod. 71″ extended; 44″ retracted. 5/8″ x 11.

With Quick Release Clamps			
20 lbs.		**37561**	**$315.00**

Data Collector Tripod Bracket

3739

Simply attach this bracket to your tripod to hold your data collector while surveying. Constructed of plastic-coated wire designed to bend slightly for a better fit. May be clipped onto any tripod with a 1″ wide clip.

Tripod Bracket for Nomad and Recon	7 oz.	**37480**	**$59.90**
Tripod Bracket for Ranger	13 oz.	**37481**	**$75.95**

Tripod Stabilizer

4516

Made of heavy-duty aluminum, this tool provides extra stability for your tripod when working indoors on concrete or other hard surfaces. Collapses for convenient storage. **Dimensions:** 35″ x 35″ x 35″.

Tripod Stabilizer	3 lbs.	**43010**	**$99.95**

Surveyor's Umbrella

6242

Cuts glare and makes taking readings easier.

10 oz. cotton duck fabric with six ribbed panels form a 64″ umbrella. Includes 7 ft., two-section pole.

Surveyor's Umbrella	7 lbs.	**24886**	**$111.50**
		5+	**$105.75**

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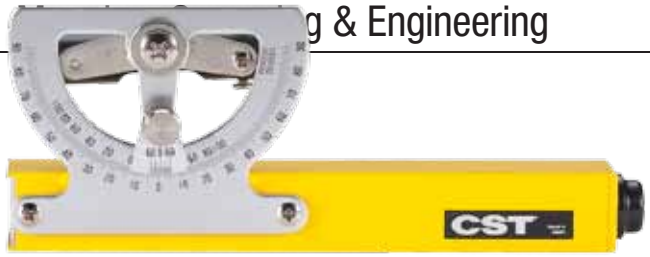


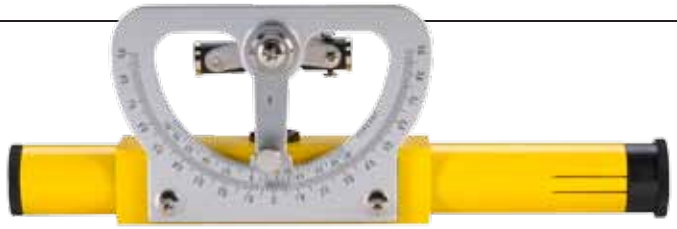
CST/berger

CST/Berger Abney Level

2436

Radius arc graduated 0 to 90° in both directions. Vernier reading to 10 minutes. Percent of grade scale from 0% to 100%. Eyepiece draw provides greater accuracy. Features brass construction. 5-1/4″ Long. Includes Cordura™ belt loop case.

CST/Berger Abney Level	6 oz.	**43945**	**$75.95**



CST/berger

CST/Berger Abney Level With 5x Magnification

2435

5x Magnification with 1:100 stadia. 7-3/4″ Long, with draw tube extending to 8-5/8″. Fixed eyepiece. Two-inch radius arc graduated to degrees, 0° to 90° in both directions. Vernier reading to 10 minutes. Percent scale 0% to 100% in both directions. Padded Cordura™ belt loop case included.

CST/Berger Abney Level with 5x Magnification	15 oz.	**43944**	**$169.95**

CST/berger

CST/Berger Topographic Abney Level

2439

Features two interchangeable arcs, both graduated in percentage of grade. One arc is marked from 0 to 60° in both directions, and the other arc is graduated in topographic scale. Square sighting tube, internal focusing telescope, and durable brass construction with black finish. Measures 6-3/8″ long. Includes Cordura™ belt loop case.

CST/Berger Topographic Abney Level	1 lb.	**43949**	**$139.95**

CST/berger

CST/Berger K&E Type Topographic Abney Level

2438

Equipped with two interchangeable arcs with 47mm (1.85″) radius. One arc is graduated in degrees, 0° to 60° in both directions. The other arc is graduated in topographic scale. Index has friction movement for time adjustment. 6-3/8″ Long, extends to 7-3/8″. Includes Cordura™ belt loop case.

CST/Berger K&E Type Topographic Abney Level	13 oz.	**43947**	**$128.95**

43926

43928

SOKKIA

Sokkia™ Topographic Abney Level

5612

Graduated 0 to ±100′ (topo), 0 to ±25 (chain corr.), 0 to ±60°, 0 to 150% on two interchangeable scale rings. No vernier. Scale pointer has fine adjustment with turn of small thumbscrew; locks with turn of large thumbscrew. Eyepiece slides out to focus bubble. 6-1/2″L. Flat base, brass tube with aluminum arc. Carrying case has belt loop, snap closure.

Sokkia Topographic Abney Level	12 oz.	**43926**	**$175.95**

SOKKIA

Sokkia™ Abney Level with 5x Magnification

5617

Graduated 0 to ±90°, 0 to ±100% on a stationary arc. Vernier reads to 10′. Scale pointer has friction movement, locks with turn of thumbscrew. 5x Magnification. Eyepiece slides out to focus cross hairs, bubble. Objective lens slides out to focus target. Stadia ratio 1 to 100. 7-1/2″L. Flat base, brass tube with aluminum arc. Carrying case has belt loop, Velcro® closure.

Sokkia Abney Level with 5x Magnification	12 oz.	**43928**	**$240.00**

SOKKIA

Sokkia™ Double Right Angle Prism

5808

Double pentaprisms for fast right angle sighting in either direction. Slotted hollow handle for attaching plumb bob cord. Extra wide yellow tinted viewing window makes targeting easy. Protective metal cover rotates to expose prism. Includes belt-looped leather case.

Sokkia Double Right Angle Prism	6 oz.	**59012**	**$79.95**

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CST/berger

CST/Berger Hand Level With 5x Magnification

2434

5x Magnification of objective and 2x magnification of level bubble. 8″ Long round telescope tube extends to 9″. The objective lens is mounted on a movable slide which brings distant objects into sharp focus. An eyepiece focusing slide allows for regulation of the crossline image. Features 1:100 stadia lines and solid brass construction with a durable yellow finish. Padded Cordura™ belt loop case included.

CST/Berger Hand Level with 5x Magnification	9 oz.	**43948**	**$94.95**

CST/berger

CST/Berger Hand Level With 2x Magnification

2433

2x Magnification hand level features an internally mounted bubble assembly and an adjustable reflector. 6″ Long with draw eyepiece extending to 8″. Includes a padded Cordura™ belt loop case.

CST/Berger Hand Level with 2x Magnification	6 oz.	**43943**	**$58.95**

CST/berger

CST/Berger Hand Level

2437

6″ Long with fixed eyepiece, adjustable reflector, and internally mounted bubble assembly. A hexagonal objective cap prevents rolling. Includes a padded Cordura™ belt loop case.

CST/Berger Hand Level	4 oz.	**43946**	**$46.95**

TOPCON

Topcon® Hand Level with 5x Magnification

5623

Eyepiece extends to focus cross hair and bubble, objective lens extends to focus target. Bubble magnification 2x. Stadia ratio 1 to 100. Brass tube with external bubble vial. 7-1/2″L. Leather carrying case has belt loop, snap closure.

Topcon Hand Level with 5x Magnification	9 oz.	**43405**	**$99.00**

TOPCON

Topcon® Hand Level with 2x Magnification

5624

Telescopic eyepiece for magnifying target/focusing cross hair and bubble. Brass tube with internal bubble vial. 6″L. Leather carrying case features snap closure and easily slips onto your belt.

Topcon Hand Level with 2x Magnification	8 oz.	**43390**	**$69.00**

TOPCON

Topcon® Hand Level

5625

No magnification. Fixed eyepiece, internally mounted bubble assembly and adjustable reflector. Hexagonal objective cap prevents rolling. 6″L with durable enamel finish. Leather case included.

Topcon Hand Level	7 oz.	**43391**	**$55.50**

KESON

MAKE YOUR MARK

Line & Surface Level

4170

This durable line & surface level features a sturdy, aluminum body. Color may vary.

Line & Surface Level	1 oz.	**43778**	**$3.35**
Nylon Mason Line, 500′	9 oz.	**83290**	**$5.95**
		24+	**$4.95**

sēco

SECO Hand Level with 2x Magnification

5620

All brass construction. Features an enclosed bubble vial and extendable eyepiece. 6″L; extends to 7″. Cordura® nylon case included.

Seco Hand Level with 2x Magnification	8 oz.	**37559**	**$133.95**

SOKKIA

Sokkia™ Hand Level with Right Angle Reflector with Brass Tube

5622

No magnification. Right angle reflector enables 90° right angle viewing when reflector is removed from end of tube, inverted, and placed back in tube. Square brass tube with external bubble vial. 6″L.

Sokkia Hand Level with Right Angle Reflector with Brass Tube	5 oz.	**43409**	**$39.95**

We can repair broken or damaged level bubbles for most hand levels. Call 1-800-752-8460 for details.

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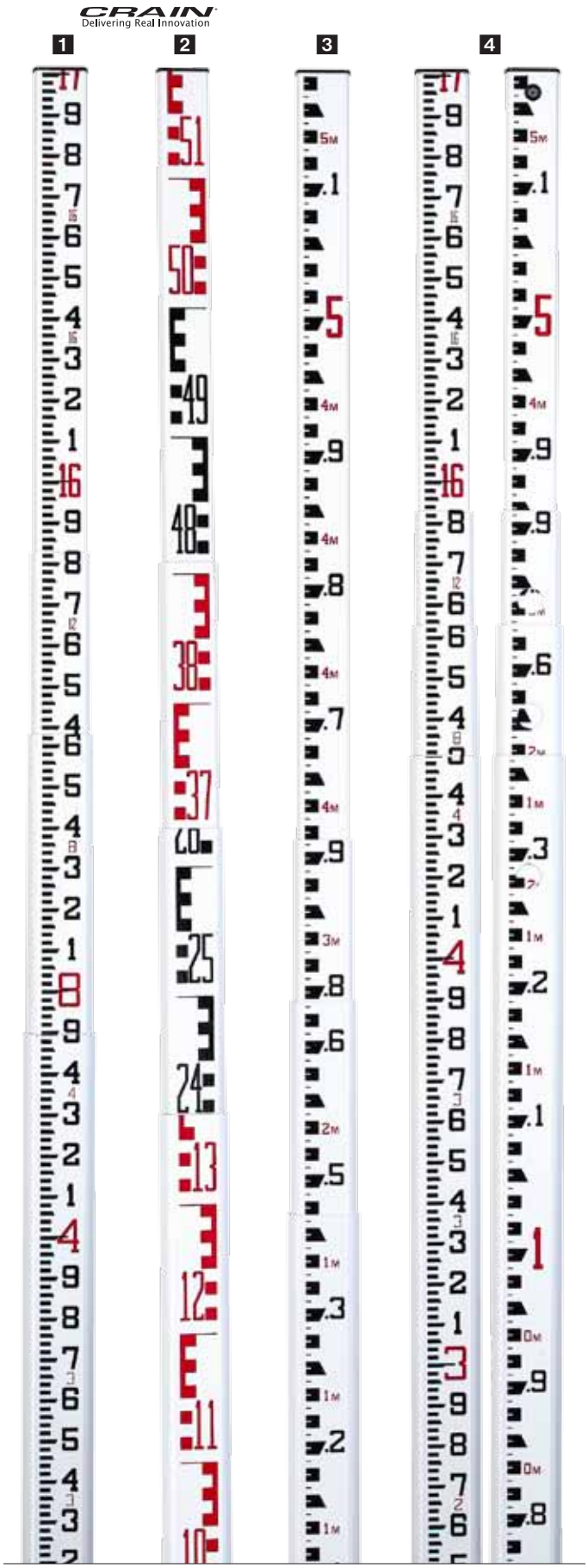

1 Crain® SVR Rectangular-Oval Shaped Telescoping Leveling/Measuring Rods

6411

Three rods in one!

Fiberglass construction with epoxy coating to resist fading and abrasions. Graduations are equal size the full length of rod with red and white markings on back for stadia purposes. Can also be used as measuring rods – measurements are read at eye level. Markings are recessed for wear protection. Snap-together joint sections lock securely and separate easily for maintenance. 17′ model features a square locking mechanism; 25′ model features a round locking mechanism. Includes protective storage case.

17′ in feet/10ths/100ths	E	5 lbs.	**43574**	**$170.95**
25′ in feet/10ths/100ths	E	8 lbs.	**43500**	**$196.25**
			3+	**$186.25**
25′ in feet/inches/8ths	E	7 lbs.	**43501**	**$196.25**
Prism Mounting Adapter 5/8″ x 11		4 oz.	**43704**	**$18.95**
Replacement Lock Set for 17′		7 oz.	**43702**	**$33.75**
Replacement Lock Set for 25′		6 oz.	**43508**	**$40.25**

Crain® Metric SVR Rectangular-Oval Rods

5628

Fiberglass construction with epoxy coating to resist fading and abrasions. Graduations are equal size the full length of rod with red and white markings on back for stadia purposes. Can also be used as measuring rods – measurements are read at eye level. Markings are recessed for wear protection. Snap-together joint sections lock securely and separate easily for maintenance. Includes protective storage case.

2 "E" Style

5.18m in m/dm/cm	M	5 lbs.	**43578**	**$170.95**
7.6m in m/dm/cm	M	7 lbs.	**43503**	**$196.25**

3 Philadelphia Style

5.18m in m/dm/cm	M	4 lbs.	**43581**	**$170.95**
7.6m in m/dm/cm	M	7 lbs.	**43504**	**$196.25**

4 Crain® Metric/English SVR Rectangular-Oval Rods

6412

Same quality rod as Crain® SVR Rectangular-Oval Shaped Telescoping Leveling/Measuring Rod with 1/2 centimeter markings on one side with English markings on the reverse. Includes protective storage case.

17′ in feet/10ths/100ths; m/dm/cm/0.5 cm	C	5 lbs.	**43587**	**$170.95**
25′ in feet/10ths/100ths; m/dm/cm/0.5 cm	C	8 lbs.	**43505**	**$196.25**

Hewlett-Packard HP35s Scientific Calculator

8549

The ultimate RPN scientific programmable calculator! Allows you to switch between RPN (Reverse Polish Notation) and algebraic entry-system logic at any time. The HP 35s is completely programmable and features a two-line display, 31 KB of memory, 100 built-in functions, and the powerful HP Solve application which allows you to solve for any variable without rewriting your equation. The HP35s also uses strong statistics functions for single and two-variable statistics, linear regression and more; it has the power to calculate inverse functions, cube root, logarithms, exponents, factorials and more; a powerful fraction mode plus fraction-to-decimal conversion; and it is permitted for use on SAT Reasoning Test, SAT Subject Tests in Mathematics Level 1 and Level 2, ACT Mathematics Test, PSAT/NMSQT, AP Chemistry/Physics, PLAN, and EXPLORE. A protective case is included.

1 Manufacturer's Warranty 1 Year

Display Size: 2 lines x 14 characters plus indicators. **Contrast:** Adjustable. **Power:** 2 CR2032 batteries (included). **Dimensions:** 3.25″ x 0.5″ x 6.25″. **Warranty:** 1 year from the manufacturer.

HP35s Scientific Calculator		15 oz.	**34035**	**$81.25**

E English
M Metric
C Combination English and Metric

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1 Crain® Rectangular Fiberglass Telescoping Leveling Rod
5633

This rectangular-shaped rod with rounded back corners and recessed graduations is directly compatible with EDM and Laser Level systems. Laser sensor clamp mounts directly to rod without special brackets. Sections stack up for easy extension with reliable, unbreakable buttons that securely lock sections together. Constructed of strong fiberglass with special reinforcing ribs to resist breakage and add stability, this rod will not dent, gall, or kink, and is non-conductive. Scale width is graduated to fill entire face of rod with glare-resistant and wear-protected scales in a variety of graduations. Special measuring scale on back side is alternate red and white allowing user to read overall height at eye-level. Carrying case included.

8′ in feet/inches/8ths	E	3 lbs.	**43510**	**$51.50**
13′ in feet/inches/8ths	E	5 lbs.	**43511**	**$75.95**
16′ in feet/inches/8ths	E	7 lbs.	**43512**	**$113.75**
8′ in feet/10ths/100ths	E	3 lbs.	**43513**	**$51.50**
13′ in feet/10ths/100ths	E	5 lbs.	**43514**	**$75.95**
16′ in feet/10ths/100ths	E	7 lbs.	**43515**	**$113.75**
			3+	**$104.25**
4m in 0.5 cm	M	5 lbs.	**43517**	**$75.95**
5m in 0.5 cm	M	7 lbs.	**43518**	**$115.95**

Crain® Round Telescoping Fiberglass Leveling Rods
5632

Designed for the most demanding field conditions!

Each rod has silk screen printing for durable resistance to abrasions and is protected with a polyurethane coating. Highly engineered locking system consists of molded plastic locks, button and base caps.

2 Standard Model

These accurate, lightweight, economical rods telescope from 5′ to 25′. Carrying case included.

25′ in 10ths/100ths	E	X	5 lbs.	**43623**	**$272.00**
				3+	**$256.00**
7.5m in m/dm/cm/5mm	M	X	4 lbs.	**43633**	**$272.00**

3 Professional Model

These professional quality rods are built of wider, stronger rod sections that telescope from 5′ to 35′ (depending on model) and feature a 5/8″ x 11 thread fitting in tip section. Printed with easy-to-read graduations, these rods include a protective nylon carrying case.

25′ in 10ths/100ths	E	X	7 lbs.	**43602**	**$319.00**
				2+	**$301.00**

4 Sokkia™ SK Oval-Shaped Telescoping Leveling Rods
5631

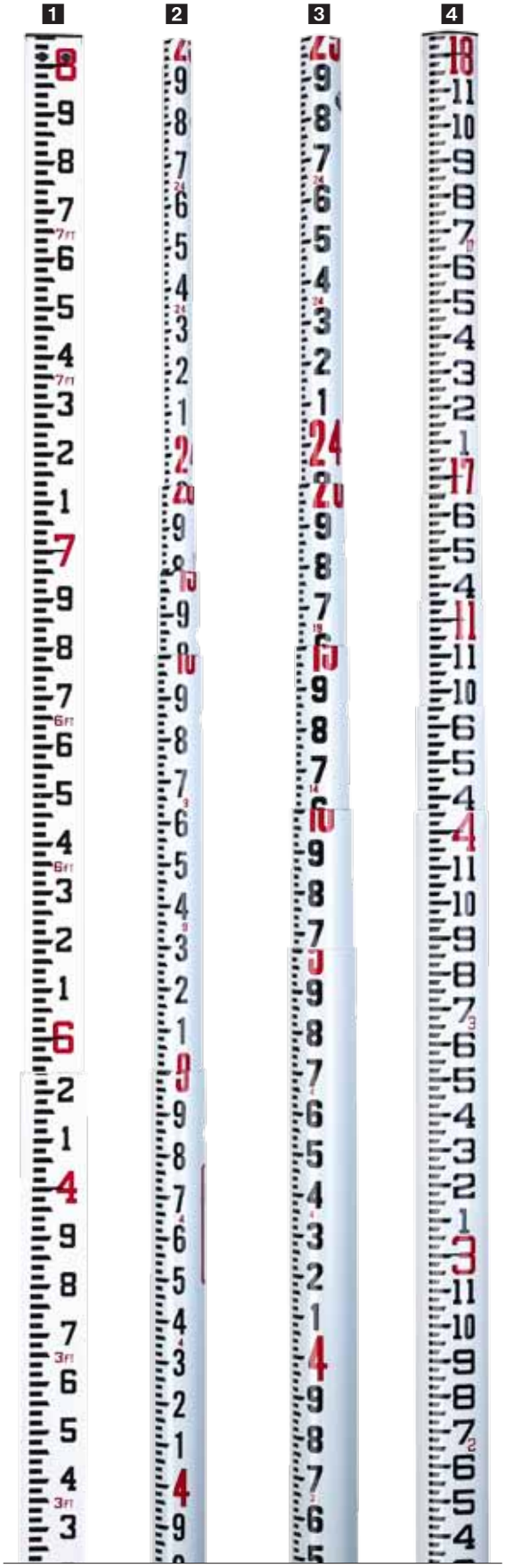
Epoxy coated fiberglass sections telescope from 66″ into rigid rods up to 25′. Multiple sections reduce the number of set-ups required. Graduations are equal size the full length of the rod. Red and white markings on back make them suitable for stadia purposes. Snap-together joint sections. Protective case included with each rod.

18′ in feet/inches	E	4 lbs.	**43257**	**$125.00**
18′ in feet/tenths	E	4 lbs.	**43258**	**$125.00**
25′ in 10ths/100ths	E	6 lbs.	**43259**	**$164.95**
			3+	**$149.00**
Double-Ended 5/8 x 11 Adapter		1 oz.	**43148**	**$16.00**

E English
M Metric
X Items 60″ or more require an additional handling charge.

CRAIN Delivering Real Innovation

SOKKIA



Sokkia™ Rod Level
4646

For use on any type of leveling rod.

Enables you to quickly and accurately determine if level rod is being held vertically. Circular spirit level vial is 3/4″ diameter for fast, easy reading and is securely mounted in a metal head with protective rim. A right angle blade with an angle slot supports the head and gives proper contact against the level rod to ensure accuracy.

Sokkia Rod Level 3 oz.	**43052**	**$13.95**

Crain® Snap-Tite® Rod Levels for SVR & CR Leveling Rods
8543

Features a large, easy-to-read level vial. Snap arms fold for convenient storage in your pocket.

SVR Level Vial – Fits 25 ft. SVR Rods only 2 oz.	**43097**	**$15.95**
CR Level Vial – Fits 16 ft. and 20 ft. CR Rods only 2 oz.	**43098**	**$15.95**

Nylon Rod Carrying Case
6798

Keep your rod dry and scratch-free with this inexpensive protective case. Water-repellent. Velcro® closure. Carrying handle. 6.5′ Long.

Nylon Rod Carrying Case 10 oz.	**39369**	**$19.95**

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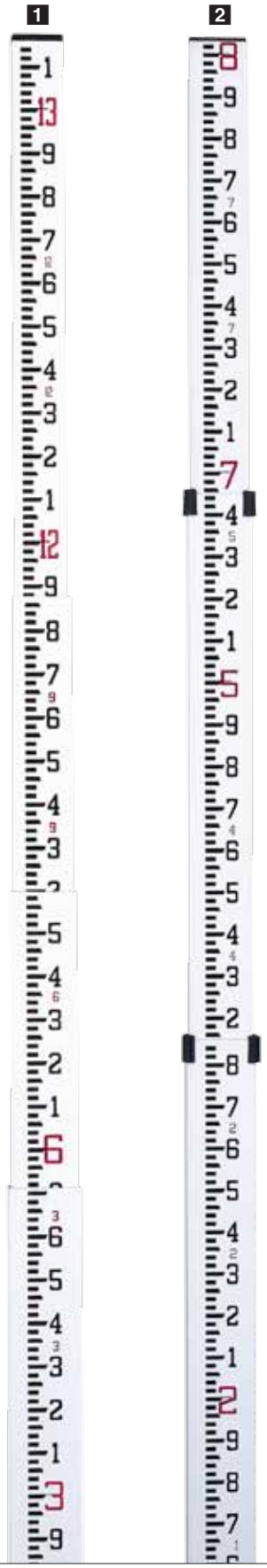
CST/berger



1 CST Rectangular Fiberglass Level Rods

2085

Corrosion-resistant and non-conductive with an abrasive-resistant coating!

These heavy-duty rectangular-shaped level rods have special reinforcement fiberglass ribs which help stop breakage while adding stability. The snug fitting telescoping sections minimize "side to side" and "front to back" play while the easy-to-read graduations and special measuring scale on the backside allow you to read height at eye level. Rods are equipped with reliable, long lasting spring loaded Delrin® buttons and come with a heavy-duty carrying case.

13´L Level Rod Graduated in 10ths	E	4 lbs.	**43476**	**$77.00**
16´L Level Rod Graduated in 10ths	E	6 lbs.	**43478**	**$92.50**
16´L Level Rod Graduated in Inches	E	6 lbs.	**43479**	**$92.50**
25´L Level Rod Graduated in 10ths	E X	10 lbs.	**43480**	**$150.00**
25´L Level Rod Graduated in Inches	E X	9 lbs.	**43481**	**$150.00**

2 CST Telescoping Aluminum Rods

5630

Light, durable aluminum alloy rods feature anodized sections imprinted with special weather- and corrosion-resistant inks. Tight tolerances on extruded aluminum sections allow for smooth extension and prevent unnecessary clattering and sloppiness. Sectional joints are constructed of lightweight, impact-resistant polycarbonate. Wear-resistant polycarbonate buttons lock each section. Easy-to-read graduations and a special measuring scale on the back permit user to read height at eye level.

Telescoping Aluminum Rod, 8´, 3-section in feet/10ths/100ths	E	2 lbs.	**43551**	**$40.50**
13´, 4-section in feet/10ths/100ths	E	3 lbs.	**43553**	**$59.95**
16´, 5-section in feet/10ths/100ths	E	5 lbs.	**43555**	**$48.50**
8´, 3-section in feet/inches	E	3 lbs.	**43552**	**$38.90**
16´, 5-section in feet/inches	E	5 lbs.	**43556**	**$48.50**

Pipe-Mic II

4305

The Pipe-Mic II allows you to take more accurate measurements by measuring with a vertically plumb rod. Simply pull the pin on the Pipe-Mic II to go from 0 to 1´ vertical offset for clearance under the rod. The Pipe-Mic II easily slides on and off the rod with no tools needed for attachment. The 24´ measuring arm can be extended to 36´ by adding an optional 1´ extension. Made of non-rusting aircraft aluminum, the Pipe-Mic II is designed for use with Crain® 25´ SVR and USL Rods.

Pipe-Mic II	3 lbs.	**43208**	**$225.00**
1´ Extension	14 oz.	**43209**	**$75.00**

E English
X Items 60´´ or more require an additional handling charge.

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1 New! SECO Grade/Trenching Rod
4910

This two-in-one rod can be used as both a grade/trenching rod and a standard leveling rod. An internal bungee cord allows for fast cut measurements once the rod is set on the desired grade without ever needing to move the laser receiver. The direct-reading cut measurement is conveniently displayed in three locations on the rod. The 6´ rod extends to 9´ with three 1´ telescoping boots, and a 2.5˝ round foot ensures stability when working in dirt and gravel. Both sides of the rod can be used with laser receivers or optical levels, and the rectangular fiberglass body fits all laser rod clamps. Graduated in feet, tenths, and hundredths.

SECO Grade/Trenching Rod	E X	6 lbs.	**43842**	**$149.95**

2 SECO Ash/Aluminum Direct Elevation Rod
2738

This two-section ash and aluminum rod extends to 10 feet (3 m) and retracts to 5.4 feet (1.6 m). The face section carries a graduated, endless 10-foot stainless steel band which runs over Delrin end rollers to bring any reading into view. The heavy duty band and hardware are stainless steel and do not rust. The back section carries a clamp for holding the rod when extended and a latch for locking the band in any required position. Bold face graduations are in tenths and hundredths.

10´ Ash/Aluminum Direct Elevation Rod, Graduated in 10ths and 100ths	E X	8 lbs.	**43411**	**$239.95**

3 Keson® Pocket Rod Combination Builder's Rod & Surveyor's Pole
5642

Great for foundation work, grading, swimming pools and construction photo records.

To use, completely remove the coated steel blade from the case, and you have a convenient, rigid 6-1/2´ leveling rod! Graduated on two sides with sharp, easy-to-read numerals. Tecron-Tuff Coat™ protects graduations from wear. Not affected by moisture. Built-in-target, heavy-duty end hook.

6-1/2´ in 10ths, 100ths both sides	E	5 oz.	**40046**	**$17.50**
			10+	**$15.95**
6-1/2´ in inches, 8ths both sides	E	5 oz.	**40047**	**$17.50**
			10+	**$15.95**
2 Meters in dm, cm both sides	M	5 oz.	**40052**	**$17.50**
			10+	**$15.95**

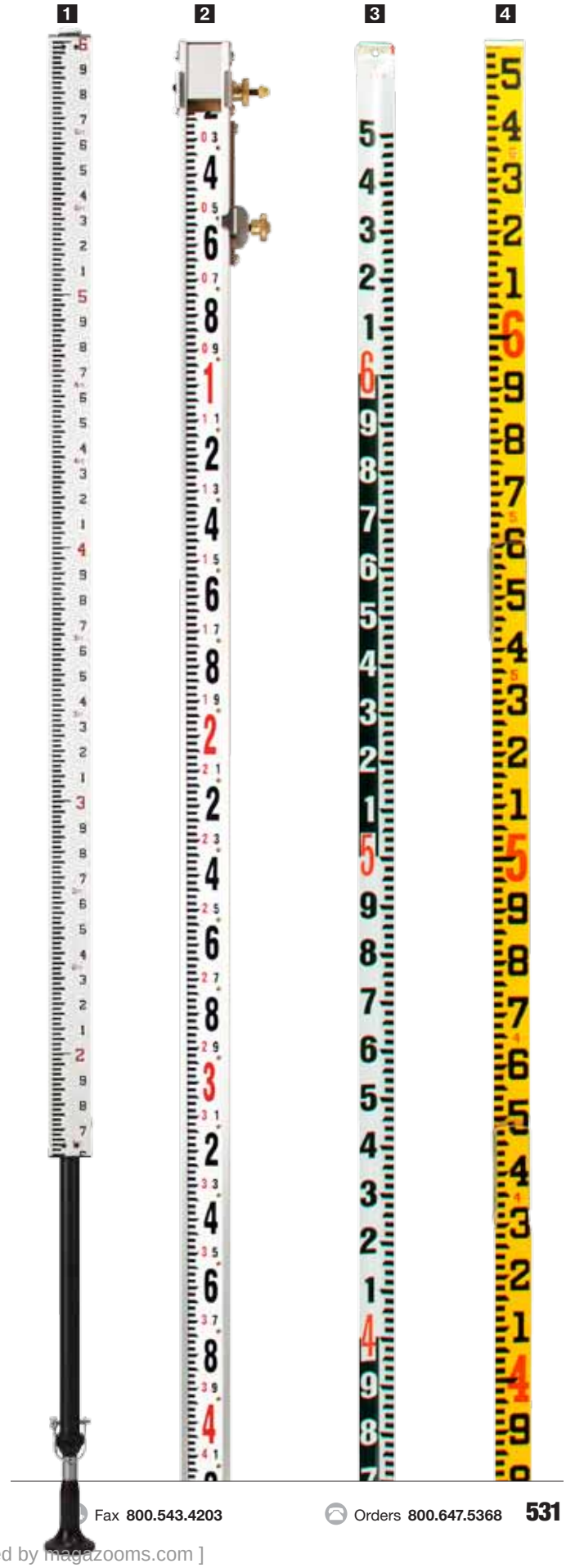
4 Sokkia™ Folding Level Rods
5641

Used on "rough-in" leveling jobs by surveyors, builders, contractors, excavators, landscapers, brick-layers and others.

Yellow background with graduations in black and foot markings in red. Quality hardwood with stainless steel joints, 15/16˝ wide.

6-1/2´ Open, 15-1/2˝ closed, feet, 10ths, 100ths	E	9 oz.	**43424**	**$88.25**
9.8´ Open, 21-1/2˝ closed, feet, 10ths, 100ths	E	13 oz.	**43426**	**$108.95**

M Metric E English X Items 60˝ or more require an additional handling charge.



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SOKKIA

1 Sokkia™ SK Telescoping Measuring Pole

2895

Perfect for obtaining measurements underneath bridges, overhangs, ceilings, and more! This rugged, fiberglass measuring pole telescopes smoothly and measures up to 26 feet. Measurements are shown on the sealed, enclosed tape readout which is located on the bottom tier of the pole for easy viewing. Friction clamps ensure no-slip extension of the pole sections. The pole collapses to 4′8″ and weighs less than 5 pounds. Includes shoulder strap and carrying case.

Sokkia SK Telescoping Measuring Pole Graduated in feet/10ths/100ths	E	5 lbs.	**39439**	**$295.00**
Sokkia SK Telescoping Measuring Pole Graduated in feet/inches/8ths	E	5 lbs.	**39440**	**$295.00**

2 Crain® Fiberglass Telescoping Measuring Rods

5644

Combination English and Metric

These rods feature both English and metric scales as well as a 4-foot rule on the base section! Made of non-conductive fiberglass materials for safety. Telescoping sections are extended for taking measurements and "nest" inside each other for carrying or storage. Nested sections are all concentric and parallel at the top of the stacked rod allowing measurements to be read from any angle or direction. Features direct reading at eye level, positive composite locking buttons, and a 1/4 x 20 threaded tip for accessories. Nylon carrying case and caliper tip included.

Graduations: English, inches – 1/4″ increments; metric, 1/2 centimeter increments. **Three lengths available:** 25′/7.62m, 36′/11m, 50′/15.24m.

25′/7.62m Extended, 51.51″ Retracted	C	5 lbs.	**39688**	**$322.00**
36′/11m Extended, 58.51″ Retracted	C	9 lbs.	**39690**	**$535.95**
50′/15.24m Extended, 66.89″ Retracted	C X	12 lbs.	**39693**	**$749.95**

3 Hastings Non-Conductive Fiberglass Telescoping Measuring Rods

5645

English or Metric

Designed for quick, one-man measurements of vertical or horizontal distances up to 50′. Extends for measurement, retracts to 69″ for storage. Measurements are read directly, no calculations are necessary. Nonconductive. Made of tough, durable fiberglass. Available in English or Metric. Features a Voltage Rating of 100,000 volts per foot per 5 minutes. Excellent for measuring heights of trees, power lines, ceilings, and dimensions of woodpiles. Can also be used to measure horizontal surfaces, such as width of streams or distance between tree seedlings.

English Rods

Graduated in feet, inches, and half-inches. All figures and graduations in red. Background color is yellow.

25′ Extended, 69″ Retracted	E X	4 lbs.	**39358**	**$298.75**
30′ Extended, 69″ Retracted	E X	6 lbs.	**39359**	**$376.25**
35′ Extended, 69″ Retracted	E X	7 lbs.	**39361**	**$456.25**
40′ Extended, 69″ Retracted	E X	10 lbs.	**39362**	**$567.50**
50′ Extended, 69″ Retracted	E X	15 lbs.	**39363**	**$718.95**

Metric Rods

Graduated in meters, decimeters, and centimeters. Figures in red. Background color is yellow.

7.5m Extended, 1.67m Retracted	M X	5 lbs.	**39364**	**$298.75**
10.5m Extended, 1.67m Retracted	M X	8 lbs.	**39365**	**$456.25**
12m Extended, 1.67m Retracted	M X	10 lbs.	**39366**	**$604.95**
15m Extended, 1.76m Retracted	M X	14 lbs.	**39367**	**$699.95**

Telescoping Measuring Rod Carrying Case

For 25′, 30′, 35′, 7.5m, 10.5m rods.
Water-repellent with Velcro® closure.

Nylon Rod Carrying Case	10 oz.	**39369**	**$19.95**

E English M Metric
C Combination English and Metric
X Items 60″ or more require an additional handling charge.

[search engine powered by magazooms.com]

39994

39935

39961

39964

Lufkin

Lufkin® "Tufboy" Fiberglass Tapes

5655

English or Metric

"Football-helmet tough" plastic cases and PVC-coated, 1/2˝W yellow fiberglass lines. High speed rewind – 3:1 gear driven (except 39994). Tapes resist stretch and extreme weather conditions. Nonconductive material, black and red markings on yellow background. Folding rewind handle and folding end hook on all models.

Lufkin® "Tufboy" Fiberglass Tapes

	Graduations		Length	Graduations Side One				Weight	SN	$
English Open Reel	One Side: Feet, inches & 8ths		100´	Feet	inches	8ths	E	2 lbs.	39935	$21.50
			200´	Feet	inches	8ths	E	2 lbs.	39959	$33.25
			300´	Feet	inches	8ths	E	3 lbs.	39963	$53.25
	One Side: Feet, 10ths & 100ths		100´	Feet	10ths	100ths	E	2 lbs.	39938	$21.50
			200´	Feet	10ths	100ths	E	2 lbs.	39961	$33.25
			300´	Feet	10ths	100ths	E	3 lbs.	39964	$53.25
Metric Open Reel	One Side: m, cm & mm		30m	Meters	cm	mm	M	2 lbs.	39941	$21.50
			50m	Meters	cm	mm	M	2 lbs.	39942	$28.50
English Closed Reel	One Side: Feet, inches & 8ths		100´	Feet	inches	8ths	E	1 lb.	39994	$21.25

Lufkin

Lufkin® Pro Series Tape

8518

This fiberglass tape won't bend, break or rust, plus it is waterproof so it can be easily hosed clean! Features include an integrated hook storage in the handle with sliding latch closure; 3 interchangeable end hooks for flexibility, snap-fit lock mechanism for quick changes in the field; a standard folding hook; an appraiser's hook for measurements on large items; a ring snap-fit with stake for 1 person measuring; a large handle opening for working with gloves; and a 3/4˝ ultra-flat blade that resists kinking when rewinding. 3:1 Gear driven rewind saves time. Two-sided blade, graduated in inches and 8ths.

100´ Lufkin Pro Series Tape	E	3 lbs.	39980	$48.95
200´ Lufkin Pro Series Tape	E	4 lbs.	39981	$77.75
300´ Lufkin Pro Series Tape	E	5 lbs.	39982	$93.50

E English
M Metric

KESON
MAKE YOUR MARK

Keson® Surveyor's Rope

5658

English or Metric

Fiberglass surveyor's rope is lightweight, tough, and flexible. Designed to withstand constant use in mud, water, or over abrasive terrain. Not affected by repeated bending or creasing. 7/32˝ wide, 3/32˝ thick. Nonconductive. Printed surface is covered with nonglare, textured vinyl for maximum abrasion resistance.

100´ in 10ths	E	1 lb.	39849	$16.50
200´ in 10ths	E	2 lbs.	39850	$24.50
300´ in 10ths	E	4 lbs.	39851	$31.25
100´ in feet, inches	E	1 lb.	39852	$15.75
200´ in feet, inches	E	2 lbs.	39853	$24.50
300´ in feet, inches	E	3 lbs.	39845	$31.25
30m in meters by 5 cm	M	1 lb.	39848	$19.50
50m in meters by 5 cm	M	2 lbs.	39846	$24.50
100m in meters by 5 cm	M	4 lbs.	39847	$39.95

SOKKIA

Sokkia™ Fiberglass Appraiser's Tape

5659

English

Graduated in feet, 10ths, 100ths on one side (blank on other side). Oversized hook on end to catch the edge of a building. Open reel tape is 100´L, 1/2˝W.

Sokkia Fiberglass Appraiser's Tape	E	1 lb.	39778	$46.25
Refill	E	11 oz.	39779	$27.95

Ideal-Mark Leakproof Indelible Marker
pages 27 & 94

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Keson® Freewheeling Fiberglass Tapes

8621

Oversize, shovel-style handle with tactile rubber grip. Locking pawl enables you to pull out the blade's slack without putting strain on the rewind arm. Freewheeling/engage rewind hub allows for swift tape play out without the potential knuckle-buster. Oversize crank arm handles the toughest environments and the harshest use. Rubber, no-slip tip holds to any surface. Multilayer blade construction ensures corrosion resistance providing at least three times the usual tape life.

Dual-Sided

165′/50M Graduated in ft. and inches one side, Metric other side, FLT18M165	C	3 lbs.	**39911**	**$43.50**
200′/60M Graduated in ft. and inches one side, Metric other side, FLT18M200	C	3 lbs.	**39909**	**$46.50**
50M Graduated 2mm and 5mm, FLT50MM	M	3 lbs.	**39912**	**$41.95**

Keson® Ultra-Glass® Fast Rewind Open Reel Fiberglass Tapes

4396

These single- or dual-sided, two-color measuring tapes feature a tough, molded handle and metal-reinforced crank handle that withstand the roughest use. The shovel handle ensures 3:1 ratio rapid reeling, and double-throat rollers guide the blade return to prevent the tape from twisting. The 1/2″ wide blade is printed with permeating ink for long life and features thousands of extruded fiberglass strands for superior tensile strength.

Dual-side English Open Reel

Graduated Both Sides Feet, 10ths, 100ths one side; feet, inches, 8ths other side.

100′, OTRS-1810-100	E	2 lbs.	**39913**	**$21.95**
200′, OTRS-1810-200	E	3 lbs.	**39903**	**$39.50**
300′, OTRS-1810-300	E	4 lbs.	**39904**	**$48.25**

Single-sided English Open Reel

Graduated Both Edges Feet, 10ths, 100ths one edge; feet, inches, 8ths other edge.

100′, OTRS-10100H	E	2 lbs.	**39900**	**$21.25**
200′, OTRS-10200H	E	2 lbs.	**39901**	**$36.25**

Single-sided English Open Reel

Graduated Feet, 10ths, 100ths.

300′, OTRS-10300H	E	3 lbs.	**39902**	**$47.50**

Keson® Closed Reel Fiberglass Tapes

5654

English, Combination English/Metric

These closed reel tapes encase Keson®'s top quality fiberglass tapes in protective plastic reels. 1/2″ Wide tapes have easy-to-read graduations and folding end hooks. Reels have pop-out rewind cranks and back-mounted carrying handles.

Keson® Closed Reel Fiberglass Tapes

	Graduated		Model	Length	Graduations: Side One			Graduations: Side Two				Weight	SN	$
English	1 Side - Feet, inches & 8ths		MC-18-100	100′	Feet	inches	8ths				E	2 lbs.	**40029**	**$23.50**
			Refill, RF-18-100	100′	Feet	inches	8ths				E	11 oz.	**40030**	**$16.50**
	1 Side - Feet, 10ths & 100ths		MC-10-100	100′	Feet	10ths	100ths				E	2 lbs.	**40033**	**$24.50**
			Refill, RF-10-100	100′	Feet	10ths	100ths				E	12 oz.	**40034**	**$16.50**
English/ Metric	Side one: Ft., 10ths, 100ths Side two: m, cm, 2 mm		MC-10M-50	50′/15m	Feet	10ths	100ths	Meters	cm	2 mm	C	1 lb.	**40116**	**$18.25**
			Refill, RF-10m-50	50′/15m	Feet	10ths	100ths	Meters	cm	2 mm	C	6 oz.	**39969**	**$11.75**
			MC-10M-100	100′/30m	Feet	10ths	100ths	Meters	cm	2 mm	C	2 lbs.	**40118**	**$24.95**
			Refill, RF-10m-100	100′/30m	Feet	10ths	100ths	Meters	cm	2 mm	C	12 oz.	**39971**	**$19.25**

E English M Metric C Combination English and Metric

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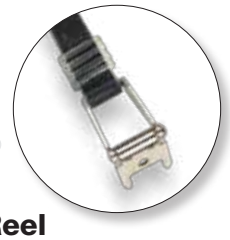

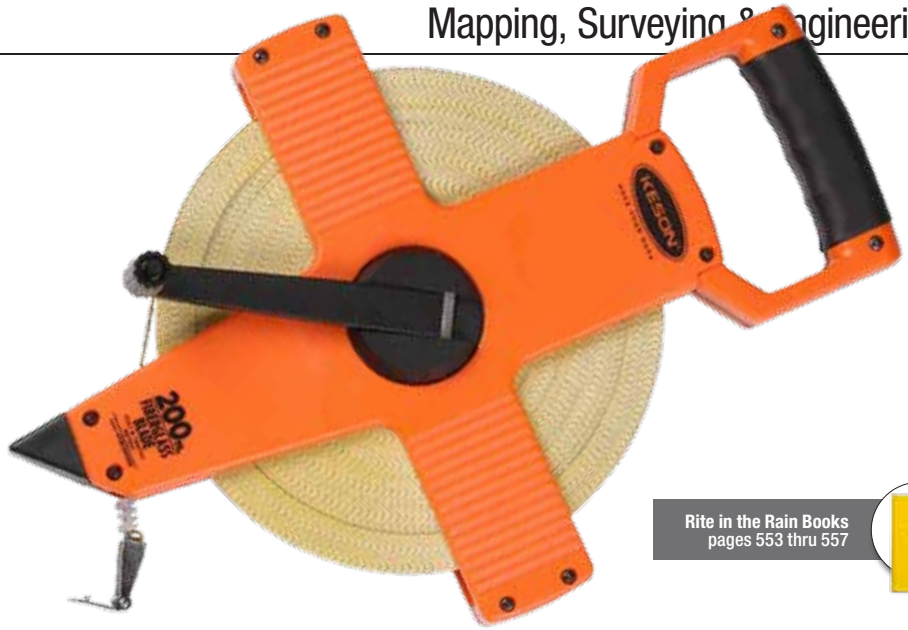

Keson® Open Reel Fiberglass Tapes

5653

English, Metric, & Combination English/Metric

Count on Keson® Fiberglass Tapes for the strength and accuracy you expect on your job. 1/2″ Wide, top-quality, nonconducting fiberglass tapes won't shrink or deteriorate. Easy-to-read permanently bonded graduations. Folding end hook. The cross-arm open reel has a folding rewind handle and a "stake point."

Rite in the Rain Books pages 553 thru 557

Keson® Open Reel Fiberglass Tapes

	Graduated		Model	Length	Graduations: Side One			Graduations: Side Two				Weight	SN	$
English	One side: Feet, inches and 8ths		OTR-18-50	50′	Feet	inches	8ths				E	1 lb.	40013	$16.50
			OTR-18-100	100	Feet	inches	8ths				E	1 lb.	40015	$22.95
			Refill, RF-18-100	100′	Feet	inches	8ths				E	11 oz.	40030	$16.50
			OTR-18-200	200′	Feet	inches	8ths				E	2 lbs.	40019	$36.95
			Refill, RF-18-200	200′	Feet	inches	8ths				E	1 lb.	40020	$38.50
			OTR-18-300	300′	Feet	inches	8ths				E	3 lbs.	40021	$49.50
			Refill, RF-18-300	300′	Feet	inches	8ths				E	2 lbs.	40022	$55.00
	One side: Feet, 10ths and 100ths		OTR-10-50	50′	Feet	10ths	100ths				E	1 lb.	40003	$16.50
			Refill, RF-10-50	50′	Feet	10ths	100ths				E	6 oz.	40032	$10.50
			OTR-10-100	100′	Feet	10ths	100ths				E	1 lb.	40005	$23.25
			Refill, RF-10-100	100′	Feet	10ths	100ths				E	12 oz.	40034	$16.50
			OTR-10-200	200′	Feet	10ths	100ths				E	2 lbs.	40009	$36.95
			Refill, RF-10-200	200′	Feet	10ths	100ths				E	1 lb.	40010	$38.50
			OTR-10-300	300′	Feet	10ths	100ths				E	3 lbs.	40011	$61.75
			Refill, RF-10-300	300′	Feet	10ths	100ths				E	2 lbs.	40012	$55.25
	Both Sides – Side One: Feet, 10ths and 100ths Side two: Feet, inches and 8ths		OTR-1810-100	100′	Feet	10ths	100ths	Feet	inches	8ths	E	1 lb.	40057	$25.50
			Refill, RF-1810-100	100′	Feet	10ths	100ths	Feet	inches	8ths	E	11 oz.	40058	$19.25
			OTR-1810-200	200′	Feet	10ths	100ths	Feet	inches	8ths	E	2 lbs.	40061	$46.50
			Refill, RF-1810-200	200′	Feet	10ths	100ths	Feet	inches	8ths	E	1 lb.	40062	$40.75
			OTR-1810-300	300′	Feet	10ths	100ths	Feet	inches	8ths	E	3 lbs.	40001	$66.95
			Refill, RF-1810-300	300′	Feet	10ths	100ths	Feet	inches	8ths	E	2 lbs.	40002	$43.25
Metric	One side: Meter, cm and 2 mm		OTR-15M	15m	Meter	cm	2 mm				M	1 lb.	40106	$16.50
			OTR-30M	30m	Meter	cm	2 mm				M	1 lb.	40108	$25.50
			OTR-50M	50m	Meter	cm	2 mm				M	2 lbs.	40110	$38.75
	Both Sides – Side one: Meter, cm and 2 mm Side two: Meter, cm and 5 mm		OTR-30 mm	30m	Meter	cm	2 mm	Meter	cm	5 mm	M	1 lb.	39943	$27.50
			Refill, RF-30 mm	30m	Meter	cm	2 mm	Meter	cm	5 mm	M	11 oz.	39944	$20.75
			OTR-50 mm	50m	Meter	cm	2 mm	Meter	cm	5 mm	M	2 lbs.	39945	$39.50
			Refill, RF-50 mm	50m	Meter	cm	2 mm	Meter	cm	5 mm	M	1 lb.	39946	$32.25
			OTR-100 mm	100m	Meter	cm	2 mm	Meter	cm	5 mm	M	3 lbs.	39986	$74.25
			Refill, RF-100 mm	100m	Meter	cm	2 mm	Meter	cm	5 mm	M	2 lbs.	39987	$66.50
English/ Metric	Both Sides – Side one: Meter, cm, and 2 mm Side two: Feet, inches and 8ths		OTR-18m-50	50′/15m	Meter	cm	2 mm	Feet	inches	8ths	C	1 lb.	39974	$17.35
			Refill, RF-18m-50	50′/15m,	Meter	cm	2 mm	Feet	inches	8ths	C	6 oz.	39975	$10.95
			OTR-18m-100	100′/30m	Meter	cm	2 mm	Feet	inches	8ths	C	1 lb.	39976	$26.50
			Refill, RF-18m-100	100′/30m	Meter	cm	2 mm	Feet	inches	8ths	C	12 oz.	39977	$19.25
			OTR-18m-165	165′/50m	Meter	cm	2 mm	Feet	inches	8ths	C	2 lbs.	39978	$44.25
			Refill, RF-18m-165	165′/50m	Meter	cm	2 mm	Feet	inches	8ths	C	1 lb.	39979	$32.75
			OTR-18m-200	200′/60m	Meter	cm	2 mm	Feet	inches	8ths	C	2 lbs.	39988	$54.95
			OTR-18m-300	300′/100m	Meter	cm	2 mm	Feet	inches	8ths	C	3 lbs.	39532	$74.25
			Refill, RF-18m-300	300′/100m	Meter	cm	2 mm	Feet	inches	8ths	C	2 lbs.	39990	$59.25
	Both Sides – Side one: Meter, cm and 2 mm Side two: Feet, 10ths and 100ths		OTR-10m-50	50′/15m	Meter	cm	2 mm	Feet	10ths	100ths	C	1 lb.	39968	$16.75
			Refill, RF-10m-50	50′/15m	Meter	cm	2 mm	Feet	10ths	100ths	C	6 oz.	39969	$11.75
			OTR-10m-100	100′/30m	Meter	cm	2 mm	Feet	10ths	100ths	C	1 lb.	39970	$26.50
			Refill, RF-10m-100	100′/30m	Meter	cm	2 mm	Feet	10ths	100ths	C	12 oz.	39971	$19.25
			OTR-10m-165	165′/50m	Meter	cm	2 mm	Feet	10ths	100ths	C	2 lbs.	39972	$44.25
			Refill, RF-10m-165	165′/50m	Meter	cm	2 mm	Feet	10ths	100ths	C	1 lb.	39973	$32.75
			OTR-10m-200	200′/60m	Meter	cm	2 mm	Feet	10ths	100ths	C	2 lbs.	40023	$54.95
			Refill, RF-10m-200	200′/60m	Meter	cm	2 mm	Feet	10ths	100ths	C	1 lb.	40024	$42.25
			OTR-10m-300	300′/100m	Meter	cm	2 mm	Feet	10ths	100ths	C	3 lbs.	40025	$76.75
			Refill, RF-10m-300	300′/100m	Meter	cm	2 mm	Feet	10ths	100ths	C	2 lbs.	40026	$69.25

E English M Metric C Combination English and Metric

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Temperature Correction Scale

1 Lufkin® Peerless Chrome-Clad Steel Tapes

5650

Chrome-clad steel line is 1/4″ wide. Black markings bonded to steel, recessed below chrome. Zero at end of line. Epoxy coating. Steel reel, two finger rings, and engineers conversion rule included with tape. Line removes from reel. Locking rewind.

C-1276D 100′ in feet, 10ths, 100ths	E	2 lbs.	**39625**	**$269.25**
OC-1276D Refill Line	E	1 lb.	**39627**	**$219.75**
C-1278D 200′ in feet, 10ths, 100ths	E	4 lbs.	**39626**	**$473.75**
OC-1278D Refill Line	E	2 lbs.	**39628**	**$393.50**

2 Lufkin® Engineering and Surveying Tapes and Reels

5649

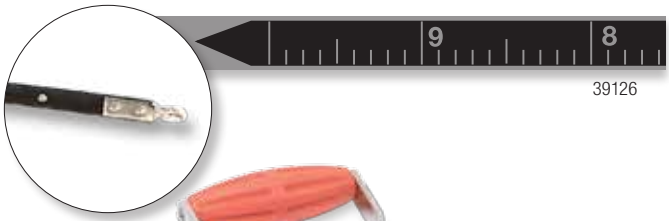
Designed especially for precise measuring such as route surveys, highways and railways, mining, and surveying work.

Heavy-gauge steel lines with markings raised against a black background protected by abrasion-resistant coating provide long life. Each tape is fitted with heavy-gauge end clips at each end for attaching to reel or tensioning device. Supplied with two leather thongs and a temperature correction scale (Fahrenheit). Reels sold separately.

Super Hi-Way Nubian Tapes (Style B)

Bright graduations on black line 5/16″ wide x 0.025″ thick. Railroad half-gauge mark is 2′, 4-1/4″ from zero end. Blank space each end, extra foot before "0" graduated right to left in 10ths and 100ths, remainder graduated every foot except last foot of every 100′ in 100ths. Order reel separately.

100′	E	2 lbs.	**39126**	**$223.25**
300′	E	5 lbs.	**39130**	**$608.95**



39126

Reels for Steel Tapes

Made of high-quality, nickel-plated steel and fitted with a plastic handle. Open design aids in cleaning and drying line. Easy-action winding handle locks line at any point.

Two-arm Reel for 100′ tape	1 lb.	**39104**	**$93.75**
Four-arm Reel for 300′ tape	3 lbs.	**39108**	**$224.25**

Cam-Line Measuring Tape

5652

Determine water depths in wells easily!

Nylon-coated, stainless steel, wind-resistant cable is designed for determining depth of water in wells quickly, in one operation. Rewinds in approximately 75 seconds. Measuring grommets are stamped on line at 1′ intervals. Can also be used by surveyors in the field where trees, crops, or high weeds are a hindrance. Total length for the tape is 300′. Comes complete with handle and lead weight.

300′ Tape	E	3 lbs.	**39125**	**$189.95**
			2+	**$179.95**
300′ Refill	E	1 lb.	**39122**	**$126.95**
Replacement Lead Weight		8 oz.	**39123**	**$9.60**

E English

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Keson® 3/8″ Nylon-Coated Steel Tapes

5662

Open reel nylon-coated steel tape is 3/8″ wide with two-color graduations on a white background. Coating is nonconductive. Markings permeate nylon. All models have high-impact plastic reel with metal-reinforced folding rewind handle except for SN 40044, 40045, and 40016 which have stainless steel reels.

Graduated in Feet, inches, 8ths

NR-18-100; 100′ in feet, inches, 8ths	E	2 lbs.	**40036**	**$46.50**
NR-18-200; 200′ in feet, inches, 8ths	E	3 lbs.	**40040**	**$73.50**

Graduated in Feet, 10ths, 100ths

NR-10-100H; 100′ in feet, 10ths, 100ths	E	2 lbs.	**40038**	**$44.25**
SNR-10-100; 100′ in feet, 10ths, 100ths	E	3 lbs.	**40044**	**$52.25**
NR-10-200H; 200′ in feet, 10ths, 100ths	E	3 lbs.	**40042**	**$73.50**
SNR-10-200; 200′ in feet, 10ths, 100ths	E	5 lbs.	**40045**	**$82.50**
SNR-10-300H; 300′ in feet, 10ths, 100ths	E	7 lbs.	**40016**	**$166.50**
NRF-10-300H; Refill Line	E	3 lbs.	**40064**	**$106.25**

Metric – Graduated in mm, cm & m

Model NR30MH: 30M in mm, cm and m	M	2 lbs.	**40048**	**$46.50**
Model NR60MH: 60M in mm, cm and m	M	3 lbs.	**40049**	**$73.50**

Keson® 3/8″ Nylon Clad Steel Tapes

7542

3/8″ Wide nylon-reinforced steel blade with super fast 3x1 rewind. Blade and housing are rust- and break-resistant. Other features include a rubber shovel handle for non-slip grip, double nylon-coating and steel core for superior strength and accuracy, metal-reinforced crank handle, double-riveted housing, and hi-visibility housing.

Keson® English 3/8″ Nylon Clad Steel Tapes

Graduated in ft., 10ths and 100ths one side.

100′ Tape - Model NRS-10-100H	E	2 lbs.	**40065**	**$31.95**
200′ Tape - Model NRS-10-200H	E	3 lbs.	**40066**	**$64.95**
300′ Tape - Model NRS-10-300H	E	5 lbs.	**40067**	**$94.25**

Keson® Metric 3/8″ Nylon Clad Steel Tapes

Graduated in m and dm one side.

50m Tape - Model NRS-50M	M	3 lbs.	**40068**	**$52.95**
100m Tape - Model NRS-100M	M	5 lbs.	**40069**	**$97.25**

Lufkin® 1/2″ Atlas Ny-Clad Tapes

5661

English, Graduated in Feet, 10ths, 100ths

Line is 1/2″ wide. A 3 to 1 gear ratio allows for faster retrieval. Strong, flexible steel with nylon coating. Bright yellow with black graduations. High-impact plastic open reel.

1806-D; 100′ in feet, 10ths, 100ths	E	2 lbs.	**40102**	**$52.95**
1808-D; 200′ in feet, 10ths, 100ths	E	3 lbs.	**40104**	**$83.50**

CST 1/2″ Pro-Series Zip Line™ Nylon Clad Steel Tapes

6799

These heavy duty tapes are durable and washable. Features accurate, wear-resistant graduations, flexible high tempered steel tape core, impact-resistant ABS plastic open reel, and a chrome-plated handle with metal insert. The nylon coating can withstand extreme temperatures, water, and chemicals. Features a zipline reel with a 3 to 1 rewind ratio. Crank handle folds flat.

English Graduations – Zero begins at end of hook.

100′ in feet, 10ths, 100ths	E	2 lbs.	**39780**	**$39.50**
100′ in feet, inches, 8ths	E	2 lbs.	**39781**	**$39.50**
200′ in feet, 10ths, 100ths	E	4 lbs.	**39782**	**$66.50**
200′ in feet, inches, 8ths	E	4 lbs.	**39783**	**$66.50**
300′ in feet, 10ths, 100ths	E	6 lbs.	**39784**	**$113.95**
300′ in feet, inches, 8ths	E	6 lbs.	**39785**	**$113.95**

Metric Graduations – Zero begins 10″ from end of loop.

50m	M	4 lbs.	**39787**	**$72.25**
100m	M	6 lbs.	**39788**	**$124.25**

Wood Survey Stakes
pages 23, 163 & 560

E English
M Metric

[search engine powered by magazooms.com]

1 Keson® Toggle Series Hi-Vis Measuring Tapes

4734

These highly visible tapes are bright orange and feature a toggle locking mechanism. Blade is nylon-coated for longer life and abrasion resistance.

Model PGT3MV - 3m L x 15mm (5/8″) W, Metric; Top and Bottom graduated in mm & cm.	M	5 oz.	39458	$4.95
Model PGT5MV - 5m L x 25mm (1″)W, Metric; Top and Bottom graduated in mm & cm.	M	9 oz.	39459	$8.25
Model PGT8MV - 8m L x 25mm (1″)W, Metric; Top and Bottom graduated in mm & cm.	M	14 oz.	39460	$10.95
Model PGT18M10V - 10′/3m L x 5/8″W, English/Metric; Top graduated in ft., in., 8ths, & 16ths; Bottom graduated in mm & cm.	C	4 oz.	39461	$4.95
Model PGT18M16V - 16′/5m L x 1″W, English & Metric; Top graduated in ft., in., 8ths, & 16ths; Bottom graduated in mm & cm.	C	10 oz.	39462	$7.50
Model PGT18M25V - 25′/7.5m L x 1″W, English/Metric; Top graduated in ft., in., 8ths, & 16ths; Bottom graduated in mm & cm.	C	13 oz.	39463	$9.95

2 Keson® Professional Series Measuring Tapes

4735

Offering high impact resistance, these tapes feature a slotted rubber grip, a strong tape lock, and a nylon-coated steel blade. Fits easily into a tape holder. High Visibility Orange.

Model PGPRO1812V - 12′L x 5/8″W, English; Graduated in ft., in.,8ths and 16ths (32nds first 12″).	E	5 oz.	39467	$6.95
Model PGPRO1825V - 25′L x 1″W, English Graduated in ft., in., 8ths and 16ths (32nds first 12″).	E	15 oz.	39468	$13.75
Model PGPRO1835V - 35′L x 1″W, English Graduated in ft., in., 8ths and 16ths (32nds first 12″).	E	1 lb.	39469	$18.25

3 Keson® Standard Series Chrome-Plated Measuring Tapes – Metric

5674

These compact tapes have a chrome-plated, rubber-grip housing providing a sure hold even while wearing gloves. The easy slide out and swift return action make them ideal on the jobsite.

Model PG3M - 3m L x 15mm (5/8″)W, Metric; Top and Bottom graduated in mm & cm.	M	4 oz.	39464	$5.75
Model PG5M - 5mL x 25mm (1″)W, Metric Top and Bottom graduated in mm & cm.	M	10 oz.	39465	$9.95
Model PG8M - 8m L x 25mm (1″)W, Metric Top and Bottom graduated in mm & cm.	M	14 oz.	39466	$12.75

4 Keson® Measuring Tapes

5674

These steel tapes have a compact case design that fits the hand with ease. The locking tape rule has a heavy-duty end hook with 3 rivets for extra durability and a "True Zero" for doing inside and outside dimension reading. Additional features include a yellow blade with black and red graduations plus a slide lock-and-reverse button that firmly locks the blade in place for hands free marking. High polish chrome-plated case with plated belt clip. Available in English or English/Metric.

Model PG 10-25; 25′L x 1″W; Grad. ft., 10ths, and 100ths	E	14 oz.	39328 10+	$10.95 $9.95
Model PG 1810-25; 25′L x 1″W; Top grad. in ft., 10ths, and 100ths; Bottom grad. in ft., in., and 16ths	E	14 oz.	39307 10+	$10.95 $9.95
Model PG 10M-25; 25′L x 1″W; Top grad. in ft., 10ths, and 100ths; Bottom grad. in mm and cm with every 10th centimeter highlighted in red	C	14 oz.	39280 10+	$10.95 $9.95
Model PG 1810-12; 12′L x 5/8″W; Top grad. in ft., 10ths, and 100ths; Bottom grad. in ft., in., and 16ths	E	5 oz.	39371 6+	$5.75 $5.25

5 Keson® Pro Series Autolock Measuring Tapes

7851

Features include a stainless-steel housing, nylon-coated blades for extended blade life, a true zero 4-riveted hook for superior strength, a "bumper" blade return, and a positive blade lock and reverse button. All tapes have a handy belt clip and a 1″ blade with 16 inch center and 19.3 inch rafter markings.

Model PG1825AL, 25′L x 1″W; graduated in feet, inches & 16ths	E	13 oz.	39372 6+	$12.50 $11.50
Model PG181025AL, 25′L x 1″W; Top grad. in feet, 10ths & 100ths, Bottom grad. in ft., in. & 16ths	E	14 oz.	39373 6+	$12.95 $12.50
Model PG10M25AL, 25′L x 1″W; Top grad. in ft., in. & 10ths, Bottom grad. in mm & cm	C	14 oz.	39374 6+	$15.50 $14.75

E English M Metric C Combination English and Metric

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1 Lufkin® Chrome Tapes
4724

Lufkin®

Lightweight, high strength chrome finished case is designed to fit perfectly in the hand. Bright yellow blade has clear easy-to-read numerals.

Other features include a toggle lock positioned for convenient operation that holds the blade securely, a cushioned blade return, and a removable belt clip.

13´L x 3/4˝W (4m L x 19mm W), English/Metric; Top graduated in ft., in. & 16ths; Bottom graduated in mm, cm & m.	C	7 oz.	39410	$13.95
			6+	$12.95
26´L x 1˝W (8m L x 25mm W), English/Metric; Top graduated in ft., in. & 16ths (first 12˝ in 32nds); Bottom graduated in mm, cm & m.	C	1 lb.	39438	$19.95
			6+	$18.25
12´L x 3/4˝W, Engineer's/English; Top graduated in 10ths & 100ths; Bottom graduated in ft., in., & 16ths.	E	7 oz.	39433	$13.95
			6+	$12.95

2 Lufkin® HI-VIZ® Tapes
4723

The Hi-Viz orange case of these tapes makes them easy to find on the job! Features include a rubber cushion case exterior for impact protection and grip, bright yellow blade with clear easy-to-read numerals, toggle lock that holds the blade securely in any position, a cushioned blade return, and a removable belt clip. Convenient size fits easily into most tape holsters.

HI-VIZ Tape, 12´L x 3/4˝W English, Top graduated in ft., in. & 16ths; Bottom graduated in ft., in. & 16ths (first 12˝ in 32nds).	E	7 oz.	39407	$10.75
			6+	$9.75
HI-VIZ Tape, 25´L x 1˝W English, Top and bottom graduated in ft., in. & 16ths.	E	16 oz.	39422	$15.95
			4+	$14.75
HI-VIZ Tape, 33´L x 1W English, Top and bottom graduated in ft., in. & 16ths.	E	1 lb.	39408	$19.25
			6+	$17.50
HI-VIZ Tape, 16´L x 3/4˝W (5m L x 19mm W) English/Metric, Top graduated in ft., in. & 16ths, Bottom graduated in mm, cm & m.	E	8 oz.	39418	$13.15
			6+	$12.00
HI-VIZ Tape, 25´L x 1˝W Engineer's Scale, Top graduated in 10ths and 100ths; Bottom graduated in ft., in. & 16ths.	E	1 lb.	39423	$15.95
			6+	$15.25
HI-VIZ Tape, 5m L x 19mm W Metric, Top and Bottom graduated in mm & cm.	M	8 oz.	39419	$13.15
			6+	$12.00
HI-VIZ Tape, 8m L x 25mm W Metric, Top and Bottom graduated in mm & cm.	M	1 lb.	39421	$16.25
			6+	$15.25
HI-VIZ Tape, 26´L x 1˝W (8m L x 25mm W) English/Metric, Top graduated in ft., in. & 16ths, Bottom graduated in mm, cm & m.	C	1 lb.	39420	$16.25
			4+	$15.25

3 Lufkin Lever Lock Tape
8482

New blade design achieves 10´ stand-out, allowing you to make longer measurements. Other features include a soft touch lock button for better feel and control, a rubber cushion absorbs impact and provides improved grip, Clearcoat blade protection, 4-rivet reinforced end hook increases strength for long blade life, non-slip slide lock for positive blade locking, and an easy on/off belt clip for fast attachment to belt.

English – Graduated in inches and 8ths.

Model XL8525 - 1-3/16˝W x 25´L blade	E	1 lb.	39303	$15.25
			4+	$14.25

Engineer's – Dual scale Engineer's blade graduated in 10ths.

Model XL8525D - 1-3/16˝W x 25´L blade	E	1 lb.	39304	$15.25
			4+	$14.25

4 Lufkin® Mezurall Cased Tapes
5669

English or Combination English/Metric

These non-locking tapes are inspected 100% for quality and accuracy. Common features of each tape include a steel yellow blade with wear-resistant coating, a long lasting reinforced end hook, and a lightweight, high-strength chrome case.

Engineer's Tape

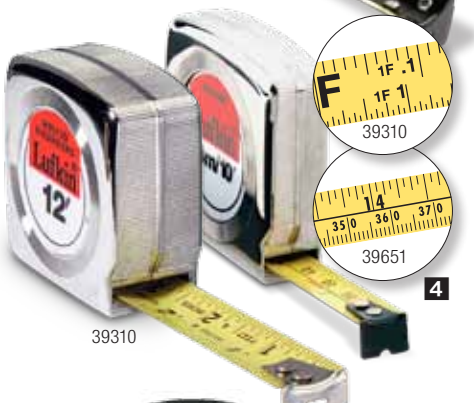
The top edge is graduated in feet, 10ths, and 100ths. The bottom edge is graduated in feet, inches, and 16ths.

Model W9312D; 3/4˝W x 12´L blade	E	6 oz.	39310	$20.95
			6+	$16.75

English/Metric Tape

The top edge is graduated in inches and 16ths with the first 12˝ in 32nds and every 12˝ mark printed in red. The bottom edge is graduated in millimeters with every 100th millimeter highlighted in red.

Model W9210ME; 1/2˝W x 10´L (3m) blade	C	4 oz.	39651	$15.25
			6+	$13.75



5 Lufkin® Closed Reel Yellow Clad Steel Tapes
5667

Closed reel 3/8˝ steel tapes have rust-resistant, vinyl-covered metal cases, pop out cranks with easy wind drums, and roller guides to ensure smooth blade returns. Fine, abrasion-resistant steel yellow clad blades feature easy-to-read markings and folding end hooks.

Engineer's Tape

Graduated in feet, tenths, and 100ths.

Model HW223D; 3/8˝W x 50´L blade	E	15 oz.	39416	$37.50
Model HW226D; 3/8˝W x 100´L blade	E	2 lbs.	39417	$54.50

English/Metric Tape

Graduated on both sides. The front side is graduated in feet, inches, and 8ths. Black diamonds appear every 16˝ on the front side. The back side is graduated in meters and millimeters. Foot and meter marks are highlighted in red.

Model HW223ME; 3/8˝W x 50´L (15m) blade	C	1 lb.	39665	$37.50
Model HW226ME; 3/8˝W x 100´L (30m) blade	C	2 lbs.	39666	$54.25

E English M Metric C Combination English and Metric

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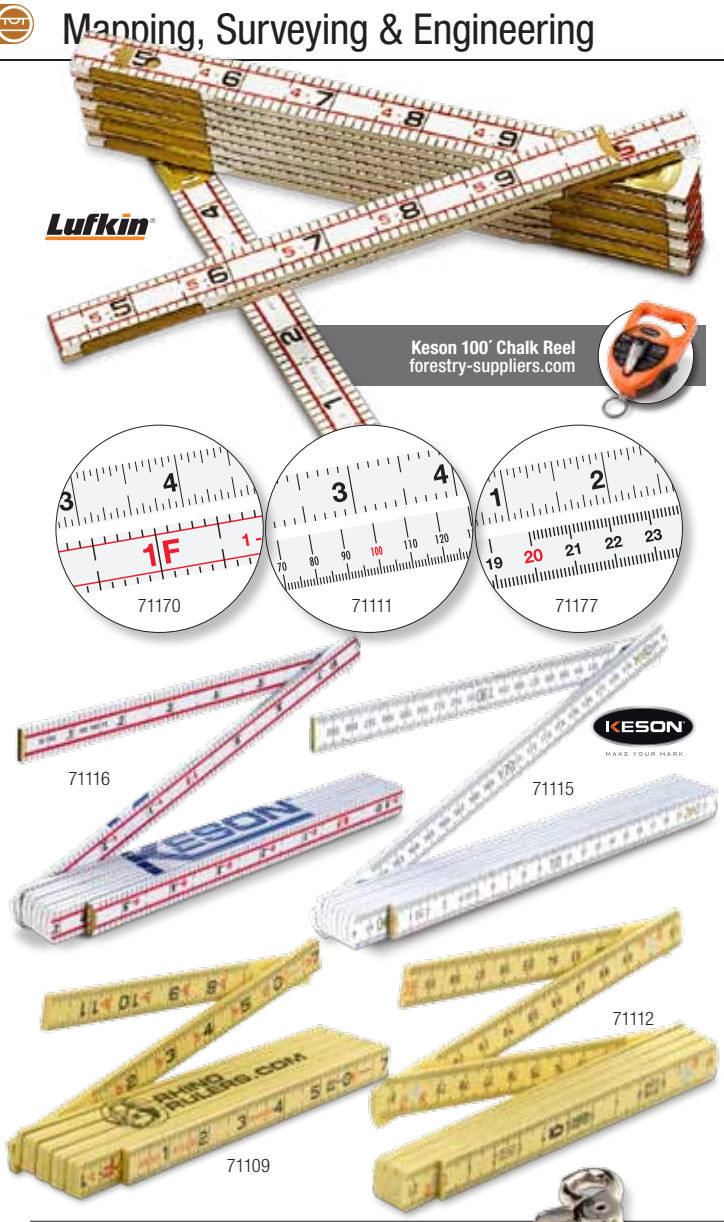


Lufkin® Red End Engineer's Folding Rules
5683

Feature bold markings embedded in wood, not just printed. Markings are black and red on a white background with an epoxy coating. Decimal points on engineer's scale prevent reading errors. Available in English or English/Metric.

Heavy-Duty Model, English/Metric – 6-1/2´ (2m) Long, graduated in feet, 10ths, and 100ths one side, millimeters other side.

Model 1066DM, Heavy-Duty Contractor's Model with thick blades and strong joints.	C	7 oz.	**71111**	**$22.25**
			6+	**$20.25**

Heavy-Duty Model, English – 6´L in feet, inches, and 16ths one side, feet, 10ths, and 100ths other side. Foot number in red, repeated each inch and 10th foot.

Model 1066D, Heavy-Duty Contractor's Model with thick blades and strong joints.	E	6 oz.	**71170**	**$22.50**
			6+	**$20.25**

Lufkin® Red End Folding Rule
6800

Combination English/Metric

One side is graduated consecutive inches to 16ths (upper and lower edge). Other side is graduated decimeters to millimeters with decimeters in red (lower edge only). 78-3/4´L (2m) x 5/8˝W (16 mm).

Model 062CME	C	7 oz.	**71177**	**$16.50**
			6+	**$15.25**

Keson® Folding Rules
7543

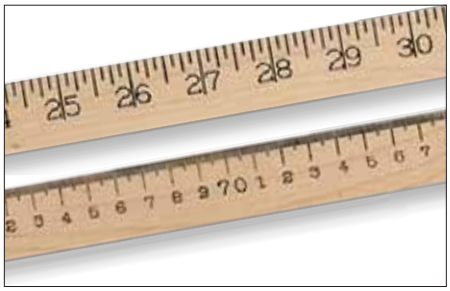
Made from specially selected fine Beechwood. Weather-resistant markings have a tough, clear protective coating. Steel springs have a precision lock action for extra strength when extended. Cleanly machined edges allow the rule to be snapped together easily and hold it stiff while measuring.

6-1/2' (2M) Long with ft., ins., 16ths one side; mm, cm and dm other side	C	5 oz.	**71115**	**$11.50**
			10+	**$9.95**
6-1/2' Long with ft., 10ths and 100ths one side; ft., inches, 16ths other side	E	4 oz.	**71116**	**$11.50**
			10+	**$9.95**

Rhino Rulers™ Fiberglass Folding Rulers
3674

These heavy duty, waterproof rulers are designed to withstand extreme weather conditions. Flexible and washable, the durable rulers are built to outlast traditional wood rulers. Graduations are engraved into the fiberglass to resist scratching.

6´ Carpenter's Ruler with 16ths and inches on both sides	E	7 oz.	**71108**	**$18.35**
			6+	**$16.35**
6´ Engineer's Ruler with 10ths and 100ths one side, inches and 8ths other side	E	7 oz.	**71109**	**$19.95**
			6+	**$17.95**
2m Metric/English Ruler with mm one side, 8ths and inches other side	C	5 oz.	**71112**	**$19.95**
			6+	**$17.95**



Wood Meter Stick
6802

Combination English/Metric

High-quality hardwood meter stick. Metric side is graduated in millimeters and numbered in centimeters. Upper edge of the English side is consecutive 39˝ to 8ths. Stick is 1m long x 25 mm wide x 6.35 mm tall. Brass covered tips.

Model 7112ME	C	5 oz.	**71166**	**$29.95**
			10+	**$27.95**

E English
C Combination English and Metric

Spencer® Engineer's Protape®
5671

English

Manufactured to the same demanding standards as Spencer®'s famous logger's tapes! The yellow clad steel blade is ClearSight coated and has easy-to-read black markings on both sides. Features include powerful automatic rewind, open spool design to resist jamming, and engineer's end ring. Both sides are graduated in feet, inches, and 8ths. Tape has stud and truss markings.

Model 900; 3/8˝W x 100´L blade	E	2 lbs.	**39377**	**$55.25**
Replacement line for Model 900	E	12 oz.	**39378**	**$26.95**

Lufkin® Executive Thinline Pocket Tape
5668

Combination English/Metric, 6´

Convenient pocket-sized tape has a chrome case, steel yellow blade, and textured edges for easy handling. The top edge is graduated in 16ths and numbered consecutively in inches. The bottom edge is graduated in millimeters and numbered every 10th millimeter.

Model W606ME; 1/4˝W x 6´ (2m) L blade	C	2 oz.	**39309**	**$18.95**

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FORESTRY SUPPLIERS

Forestry Suppliers' Hip Chain®
5708

For preliminary surveying, stakeout, distance verification, sampling grid layout, reconnaissance, timber cruising, and more!

Tie the line to a tree or other object and set the meter to zero. As you walk, the meter measures the length of line pulled out giving you the distance you've traveled. Your hands are free for other tasks. After use, simply break and discard the disposable line, reset the counter, and you're ready to measure again! High-impact plastic housing with belt loops to fit belts up to 2-1/4″ wide. Precision counting meter resets to zero. Line included. Replacement line sold separately.

Measuring capacity (without resetting meter): Feet to 99,999, meters to 9,999.9. **Accuracy:** within ±0.2%.

Measures 99,999′ in feet with 8,125′ of line (included)	E	1 lb.	**39027**	**$140.50**
			3+	**$128.25**
Measures 9,999.9m in m/dm with 2,476m of line (included)	M	1 lb.	**39028**	**$134.25**
			3+	**$122.50**

Walktax® Distance Measurer
5704

Measure distance just by walking!

Tie end of line (not included) to the starting point, walk to the ending point, and read the distance measured through the viewing window– it's that simple! Measures up to 9,999 in feet, yards, or meters with an accuracy of ±0.2%. Spool capacity 9,000′. External string cutting edge and counter reset. Fits belts up to 2-1/4″ wide. 6″ x 3-1/2″ x 3-1/4″. Line sold separately.

Measures to 9,999′ in feet	E	11 oz.	**39058**	**$130.95**
			3+	**$120.75**
Measures to 9,999.9m in meters and decimeters	M	11 oz.	**39056**	**$130.95**
			3+	**$120.75**

DigiRoller™ Plus II Digital Measuring Wheel
5700

1 Manufacturer's Warranty 1 Year

The ideal tool for obtaining fast, accurate measurements!

This digital measuring wheel allows you to easily calculate and store intermediate and total lengths and also find square areas, cubic volumes, and more for up to nine different areas. Measurements can be displayed in feet-inches, decimal feet, decimal inches, yards, meters, and acres. The AutoCount feature counts preset distance increments, or use the push-button counter for totaling of items. A built-in user memory accumulates counts or measurements. Cubic volumes are calculated from rolled length, width, and height. Measurements are displayed to 999,999.9 feet (or meters, yards, inches) with full display spell-outs. Other features include backlit LCD display, 1m circumference measuring wheel, convenient kickstand which folds out of the way when not needed, and start/stop key to prevent accidental measurements. One-year manufacturer's warranty.

Wheel circumference: 1m (39.37 inches). **Accuracy:** ±0.5%. **Power:** 4 AAA batteries (included).

DigiRoller Plus II Digital Measuring Wheel 6 lbs.	C	**39031**	**$169.95**

C Combination English and Metric

Replacement Line for Hip-Chain® and Walktax®
5706, 5707

Select the line that meets your needs! White and Orange replacement lines are 9,000 feet /2,740 meters; Red Head replacement line is white with red run-out warning on the last 300′. Natural biodegradable line is 6,000 feet/1,828.8 meters.

White	Orange	Red Head	Degradable	Weight	Each	36+	72+
39052				3 oz.	**$6.20**	**$5.35**	**$4.50**
	39053			4 oz.	**$7.15**	**$6.20**	**$5.70**
		39054		3 oz.	**$7.30**	**$6.35**	**$5.85**
			39062	3 oz.	**$6.75**	**$5.85**	**$4.95**

Replacement Thread for Fieldranger Distance Measurer
5709

Two-strand, unwaxed polyester, photodegradeable, 18,000 feet. White.

Fieldranger Replacement Thread	8 oz.	**39064**	**$9.55**
		24+	**$8.00**

New! Suunto® KB-14 Precision Global Compasses
1301

Features optical adjustment. Heavy-duty impact and corrosion resistant aluminum housings are flat and compact with no protruding or adjustable parts. Needle cards are immersed in a clear, low-viscosity liquid damping for smooth, vibration-free movement. Needle cards pivot on polished sapphire bearing. Azimuth models graduated to 1/2°; estimate to 1/4°. Quadrant models are graduated in 1° units. Cotangent table printed on back. Balanced for global use. Black nylon case included. **Dimensions:** 3″ x 2″ x 9/16″.

Global KB-14/360RG, Azimuth 0-360° without Declination Adjustment	7 oz.	**37070**	**$117.25**
		3+	**$110.50**
Global KB-14/360QG, Quadrant 0-90-0° without Declination Adjustment	7 oz.	**37075**	**$117.25**
		3+	**$110.50**

E English M Metric

Rolatape® Distance Measuring Wheels page 544

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Keson® Steel Professional Digital Measuring Wheel

8430

2 Manufacturer's Warranty 2 Year

The only electronic wheel with a steel frame! Digital display shows measurements up to 99,999 ft., 11 in. or 99,999.9 in tenths and metric. Magnetic sensors ensure reliable input. Other features include a backlight LCD, auto shut-off, add wheel radius for wall-to-wall measuring, 3/4″ steel tubing frame, a built-in kickstand, and the handle folds down for compact storage.

Wheel Circumference: 4 ft. **Accuracy:** 2″ in 100′, 99.8%. **Memory:** 8 measurement recall. **Power:** 2 "AA" Batteries (not included). **Dimensions:** 42″L Extended, 21″L Folded. **Warranty:** 2 years from the manufacturer.

Keson Steel Professional Digital Measuring Wheel	C	8 lbs.	**39129**	**$184.75**
Nylon Case for Measuring Wheel		1 lb.	**35014**	**$24.75**

Keson® Professional Measuring Wheels

3718

6 Manufacturer's Warranty 6 Year

These durable measuring wheels roll easily over the roughest terrain and feature large, easy-to-read counter numbers for quick reading at a glance. The fold-down design allows the measuring wheel to fold in half for easy storage. A barrel clamp locks the handle upright and releases in a second. Features include 3/4″ steel tubing construction, rubber wheel, molded rubber handgrip, and a stationary kickstand. Six-year manufacturer's warranty.

Model MP301

Wheel circumference: 3 ft.; Measures in feet to a maximum of 99,999′.

Model MP301	E	7 lbs.	**35013**	**$113.25**

Model MP401

Wheel circumference: 4 ft.; Measures in feet to a maximum of 9,999′.

Model MP401	E	8 lbs.	**39013**	**$135.75**

Model MP415 with Solid Wheel

Wheel circumference: 4 ft.; Measures in feet, in. and ft., and 10ths to a maximum of 99,999′.

Model MP415 with Solid Wheel	E	8 lbs.	**38943**	**$141.75**

Accessories

Nylon Case for Measuring Wheel		1 lb.	**35014**	**$24.75**

E English
M Metric
C Combination English and Metric

Keson® RoadRunner® 1′ Measuring Wheels

8184

6 Manufacturer's Warranty 6 Year

These handy measuring wheels measure curved, horizontal, and asymmetrical surfaces. Weighing less than 2 lbs., the 3-section handle telescopes up to 38″ for measuring without bending, and it telescopes down to 17″ to fit into a toolbox or standard briefcase. Measures 9,999 feet, 11 inches (or 9/10ths of a foot with the engineer's model) without resetting, plus it adds while rolling forward and subtracts when pulled in reverse. **Wheel Circumference:** 1 ft.

Model RR112, feet and inches	E	1 lb.	**39007**	**$31.95**
Model RR110, feet and tenths	E	1 lb.	**38989**	**$31.95**

Keson® RoadRunner® Distance Measuring Wheels

5699

6 Manufacturer's Warranty 6 Year

Telescopic aluminum handles adjust to any length between 24″ and 35″, allowing you to select an operating height that's just right for you. Other features include a plastic-covered, five-digit counter that measures nearly two miles (1.89 mi.) in inches and feet or feet and tenths of a foot, completely enclosed gears, zero reset button, kick stand, and vinyl hand grip with molded, hang-up eyelet. All models are manufactured in the U.S.A. and backed by a six-year warranty from Keson®.

Four Foot Single Wheel Measuring Wheels

Four Foot Circumference Wheel – features a large, heavy-duty polycast wheel that makes this RoadRunner® ideal for outdoor use over large areas of rough terrain. **Wheel circumference:** 4 ft.

Model RR-418 – measures to 9,999 feet in inches and feet	E	5 lbs.	**39010**	**$83.50**
			2+	**$75.50**
Model RR-410 – measures to 9,999 feet in feet and tenths of a foot	E	5 lbs.	**39011**	**$83.50**
			2+	**$75.50**

One Meter Single Wheel Measuring Wheels

One Meter (39.37 inch) Circumference Wheels – these measuring wheels feature a smaller wheel than the Model RR-418 above. These 1m wheels are made of the same heavy-duty polycast as the larger wheel, and they are also great for outdoor use over rough terrain. Measure in either inches and feet, feet and tenths of a foot, or meters and decimeters. **Wheel circumference:** 1m (39.37 inches).

Model RR-3M – measures to 9,999.9m in meters and decimeters	M	4 lbs.	**39026**	**$69.25**
Model RR-318 – measures to 9,999 feet in inches and feet	E	4 lbs.	**39024**	**$69.25**
Model RR-310 – measures to 9,999.9 ft. in feet and tenths of a foot	E	4 lbs.	**39025**	**$69.25**

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KESON MAKE YOUR MARK

Keson® RoadRunner® Measuring Wheel

7541

Model RRT12 & RRT6 Series

2 Manufacturer's Warranty 2 Year

The enhanced grip pistol-type handle of this measuring wheel allows you to reset the count without bending over and the brake stops counting instantly without adding lengths accidentally. Other features include a fail-safe collapsing hinge that snaps into extended lock with the flick of the wrist, a center-line handle design with a 5-digit counter on top of the wheel, gear and shaft transmission, and a handle lock. Two-year warranty from the manufacturer.

Model RRT6

Wheel circumference: 1 ft.

Model RRT6, Measures in feet and inches to 9,999 feet, 11 inches.	E	3 lbs.	**38981**	**$75.50**
Model RRT610, Measures in feet and tenths to 9,999.9 feet.	E	3 lbs.	**38977**	**$75.50**

Model RRT12

Wheel circumference: 3 ft.

Model RRT12, Measures in feet and inches to 9,999 feet, 11 inches.	E	5 lbs.	**38994**	**$96.95**
Model RRT1210, Measures in feet and tenths to 9,999.9 feet.	E	5 lbs.	**38993**	**$96.95**

KESON MAKE YOUR MARK

1 Manufacturer's Warranty 1 Year

Keson® Roadrunner Paint Applicator and Measuring Wheel

3717

Simply set the counter to zero and start walking. Measure up to 10,000 feet without resetting. Paint applicator's trigger is in the handle. Made of tough injection molded A.B.S. plastic with chrome plated metal handle. Includes a paint can sleeve that fits all standard US-style inverted aerosol paint cans. 1-year manufacturer's warranty.

Keson Roadrunner Paint Applicator and Measuring Wheel 2 lbs.	**57550**	**$39.50**

E English
C Combination English and Metric

US TAPE

U.S. Tape® DuraWheel™ Measuring Wheels

8760

L Manufacturer's Warranty Lifetime

Innovative and rugged! Features include a balanced in-line design, a belt-driven counter, a pistol grip, sealed roller bearings, and a hi-traction tire. Measure to 9,999 feet in feet and tenths. Lifetime warranty from the manufacturer.

DuraWheel 500

Ideal for indoor and limited outdoor applications.
The sturdy, tri-fold handle features a hefty pistol grip.

Wheel Diameter: 6″. **Tread Width:** 0.857″. **Folded Length:** 16″. **Extended Length:** 38″. **Weight:** 3 lbs.

DuraWheel 500	E	3 lbs.	**39334**	**$107.00**

DuraWheel Pro

Heavy-duty, commercial-grade measuring wheel designed and built for professional users! Strong, oval-shaped tube provides superior quality. Folding handle has a hefty pistol grip which features a counter clear control and a brake operation trigger. Other features include a heavy-duty chassis, a debris scraper, and a wide stance folding stand.

Wheel Diameter: 12.5″. **Tread Width:** 0.857″. **Folded Length:** 19″. **Extended Length:** 37″. **Weight:** 6 lbs.

DuraWheel Pro	E	7 lbs.	**39333**	**$177.25**

DuraWheel 1000

A great choice for long distances over rough surfaces.
Sturdy, tri-fold handle with hefty pistol grip.

Wheel Diameter: 12.5″. **Tread Width:** 0.857″. **Folded Length:** 19″. **Extended Length:** 37″. **Weight:** 6 lbs.

DuraWheel 1000	E	5 lbs.	**39345**	**$131.00**

DuraWheel Digi-Pro

Ideal for long distances over rough surfaces! At the push of a button, the digital counter allows you to convert to different units of measure including feet, feet/inches, feet/tenths, meters, meters/centimeters, meters/decimeters, yards, and yards/inches. Features include a 12.5″ diameter wheel, pistol grip trigger operated brake, measurement to 9,999 feet, balanced in-line design, heavy-duty chassis, debris scraper, belt-driven long-life counter, wide stance folding kick stand, sealed roller bearings, auto shut-off, and it folds for easy carrying. Requires 2 AA batteries (not included).

DuraWheel Digi-Pro	C	6 lbs.	**39348**	**$199.95**

Rite in the Rain® Field Books
page 553

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ROLATAPE PROFESSIONAL SERIES

Model 300 | Model 400 | Model 401 | Model 415 | Model 600 | Model 623 | Digital Model

Rolatape® Distance Measuring Wheels

5687

5 Manufacturer's Warranty 5 Year

Model 300, 300M

All steel construction ensures durability. Folds easily for compact storage. English or metric models. Both outfitted with a single counter.

400 Series

Reliable outdoor measurements over most terrain. English models outfitted with single or dual counters. Dual counter: one counter measures individual segments of long runs while the second measures accumulated total. Folding handle, automatic brake, a neoprene wheel, and built-in stand.

Model 401 Professional

Durable and built to last, these professional steel wheels feature 1-in. or 1-cm accuracy (depending on model) and are ideal for use on pavement, dirt and rough surfaces. Other features include automatic Belt Drive, large magnified counter, wheel brake, folding handle, and compact size for transport and storage. English model measures to 1 inch. Metric model measures to 1 cm.

Model 415

Same as the 400 series, except with a coated steel disc wheel. Disc wheels move through undergrowth and brush easier than ordinary spoked wheels. English model features 1/2″ increments on one side and 1/20″ on the other side of the wheel.

Model 600

Strong, double T-handle folds for easy storage and convenient carrying. Tough, all steel construction stands up to rugged use. Neoprene tire. Equipped with a single counter measuring in feet.

Model 623

For heavy-duty, long distance measuring. Includes a folding Double T-handle, a steel axle plate, and a built-in stand.

Rolatape® Digital Measuring Wheel

7620

This digital measuring wheel features an illuminated digital display that measures to 1″, 1/100th of a foot, and/or 1 cm increments. The display is located on the ergonomic handle providing easy-to-read measurements at a glance. The digital brake stops wheel measuring with a push of a button. Memory stores up to four measurement values for quick recall. Other features include an aluminum shaft, kickstand, and wide rubber wheel for all terrains and surfaces. **Accuracy:** 1″ at 100′ (25.4 mm at 30 m). **Range:** Up to 9999′11″ or 9999.99 m. **Wheel Diameter:** 12″ (30 cm). **Counter Reading:** Ft/In, Ft/100ths, Metric.

Accessories

Carrying Case	2 lbs.	**39332**	**$27.25**
Replacement Counter, 2 required for Dual Counter models	3 oz.	**39000**	**$32.25**
Replacement Lever Arm Assembly	1 oz.	**39001**	**$7.10**

Rolatape® Distance Measuring Wheels Specifications

Model	Counter	Circumference	Diameter	Range			Weight	SN	Each
300	Single	3′	11-1/4″	100,000′ in feet	E		5 lbs.	**39023**	**$95.25**
300M	Single	3′	11-1/4″	100,000m in meters	M		6 lbs.	**39084**	**$95.25**
400	Single	4′	15-1/2″	100,000′ in feet	E		9 lbs.	**39035**	**$129.50**
400D	Dual	4′	15-1/2″	100,000′ in feet	E	O	9 lbs.	**39034**	**$215.50**
401 English	Single	4′	15-1/2″	9,999′, 11″ in inches	E		10 lbs.	**39012**	**$149.95**
401 Metric	Single	4′	32.05 cm	10,000m in cm	M		8 lbs.	**39032**	**$174.95**
415	Single	4′	15-1/2″	100,000′ in feet	E		12 lbs.	**39038**	**$143.50**
600	Single	6′	23″	100,000′ in feet	E	O	9 lbs.	**39039**	**$176.75**
623	Single	6′	23″	100,000′ in feet	E	O	11 lbs.	**39330**	**$203.95**
Digital	Combination	2.5′	12″ (30 cm)	9999′11″/9999.99 m	C		5 lbs.	**39088**	**$99.95**

E English
M Metric
C Combination English and Metric
O Oversize. Ships at Oversize rate. See Shipping Information for details.

[search engine powered by magazooms.com]

Jamar Technologies RAC Plus Series Vehicle Distance Measurers

7623

Accurate, reliable and easy to operate, these RAC Plus Series distance measuring instruments (DMIs) allow personnel to measure distance, accurate to 1 foot per mile, while driving as fast or slow as necessary. Results can be read directly off the DMI's display. Easy to install with the Distance Sensors, they provide the best combination of accuracy and convenience. Other features include a lightweight, high-impact ABS plastic case (7.8″W x 2.3″H x1.2″D); dual 6-digit LED displays; four brightness levels; menu driven for selecting various operational capabilities; quick, simple automatic calibration on all vehicles - stores four separate vehicle calibration numbers for multi-vehicle usage; distance measurements accurate to 1 foot per mile, even at slow speeds; pre-distance if starting at a known point, count up/down or add/subtract distance from current display; count and display hold function; displays distance intervals between points of interest; and distance conversion from feet to miles to kilometers. **Note:** Also works with Nu-Metrics.

Jamar Technologies RAC Plus I DMI w/Vehicle Kit & Sensor

Comes with the RAC Plus I instrument, manual and all equipment needed to install in a vehicle, including distance sensor, installation cables and brackets.

RAC Plus I DMI w/Vehicle Kit & Modular Sensor	2 lbs.	**01200**	**$595.00**
		2+	**$575.00**
RAC Plus I DMI w/Vehicle Kit & Magnetic Sensor	2 lbs.	**01201**	**$630.00**
		2+	**$605.00**

Jamar Technologies RAC Plus Series Accessories

RAC Plus I DMI	15 oz.	**01204**	**$430.00**
Modular Distance Sensor and Vehicle Kit	12 oz.	**01206**	**$195.00**
Magnetic Sensor and Vehicle Kit	1 lb.	**01207**	**$230.00**

New! Jamar Technologies RAC Geo II DMI GPS-Based Distance Measurer

7623

The RAC Geo II uses an internal GPS receiver to track vehicle movement and provides distance measurements with no external distance sensor needed! To use, simply plug the device into your vehicle's 12-volt power outlet. No under-hood wiring or calibration is required, and the portable device can be easily moved from vehicle to vehicle. Measurement accuracy is approximately 5 feet per mile. Because the RAC Geo II uses a GPS receiver to track the distance traveled, the device also provides GPS coordinates for mapping, highway and sign inventory, and more. The RAC Geo II features a rugged, high-impact ABS plastic housing (7.8″W x 2.3″H x 1.2″D) and dual 6-digit LED display windows with four brightness levels. Other features include menu-driven commands, count up/down or add/subtract distance functions from current display, count and display hold functions, and distance conversion from feet to miles to kilometers. Includes RAC Geo II instrument, mounting brackets, auto adapter power supply, external GPS antenna, and user manual.

RAC Geo II DMI GPS-Based Distance Measurer	1 lb.	**01211**	**$798.00**

Nu-Metrics® Nitestar™ DMI Vehicle Distance Measurer

5722

The most accurate distance measurements from any road vehicle within an accuracy of one foot per mile!

The average survey can be completed simply by using the four large keys on the left side of the instrument. Ideal for measuring highways, school bus routes, telephone pole spacing, gas pipelines, E-911 addressing, cable TV length, postal routes, railway length, field crop length, etc. Features include non-volatile, unlimited internal memory for storing numerous events along with the distance they occur; auto calibration memory for up to 4 vehicles; speed trap function; unlimited event memory for inventory, including event names; special functions for computing material needs (area, volume, tonnage); back-lit keypad and display; and an interval distance display for logging distance between events. A sensor and a vehicle installation kit or appropriate cable kit are required for use (sold separately).

Accuracy: ±1′. **Resolution:** 1′. **Speed:** display vehicle speed 0-199 (MPH, Kmh, F/S). **Count:** Bi-directional Up/Down. **Calibration:** automatic, manual, four vehicle memory. **Automatic distance conversion:** feet, miles, kilometers. **Count hold:** stops distance count. **Display hold:** freeze display count with out loss of accumulating distance. **Automatic error correction:** compensates for sensor error due to vehicle's dynamic motion. **Operating temperature:** 0°C to 70°C. **Power:** 9 to 16 VDC, negative ground 90 ma @ 12 VDC (max). **Case:** high heat resistive ABS. **Dimensions:** 7.5″ x 2.25″ x 0.88″. **Weight:** 7 oz.

Nitestar DMI	15 oz.	**01000**	**$470.00**
		2+	**$450.00**

Nitestar DMI with RS-232 Interface

Same as the Nitestar DMI, but with RS-232 interface capabilities. Utilizing specially developed programs by Nu-Metrics, it is capable of conducting complete highway inventory surveys when used with a laptop computer.

Communications: RS-232 in/out, selectable baud rate (300-9,600). **Accuracy:** ±1′. **Resolution:** 1′. **Speed:** display vehicle speed 0-199 (MPH, Kmh, F/S). **Count:** Bi-directional Up/Down. **Calibration:** automatic, manual, four vehicle memory. **Automatic distance conversion:** feet, miles, kilometers. **Count hold:** stops distance count. **Display hold:** freeze display count without loss of accumulating distance. **Automatic error correction:** compensates for sensor error due to vehicle's dynamic motion. **Operating temperature:** 0°C to 70°C. **Power:** 9 to 16 VDC, negative ground 90 ma @ 12 VDC (max). **Case:** high heat resistive ABS. **Dimensions:** 7.5″ x 2.25″ x 0.88″. **Weight:** 7 oz.

Nitestar DMI	15 oz.	**01001**	**$630.00**
with RS-232 Interface		2+	**$610.00**
RS-232 Download Cable	6 oz.	**01023**	**$52.10**

Nu-Metrics TCI200 OBD-II Adapter

Allows the DMI to be used in virtually any vehicle with an OBDII port, without the need to hook up any additional wiring to the vehicle. Translates On-Board Diagnostics-II (OBD-II) vehicle speed data from the vehicle's Engine Control Unit (ECU) into a frequency of digital pulses for use by the NiteStar Distance Measuring Instrument (DMr).

Nu-Metrics TCI200 OBD-II	10 oz.	**01090**	**$550.00**
Adapter		2+	**$530.00**

Nu-Metrics® Nitestar™ DMI Accessories

Vehicle Installation Kit, for use with 01082	8 oz.	**01030**	**$72.50**
Proximity Sensor	1 lb.	**01082**	**$216.25**
Target Kit – for use with the Proximity Sensor (01082)	6 oz.	**01084**	**$118.95**
SS-10 Universal Speed Sensor	8 oz.	**01075**	**$187.50**
Cable Kit for 01075	11 oz.	**01020**	**$84.75**

Note: A sensor and a vehicle installation kit or appropriate cable kit are required for use.
On some vehicles–specifically trucks–the OBDII adapter will not report the proper speed to the DMI display, resulting in lower than actual distances measured. For the vehicles on which this problem has been observed, the distance recorded will be less than 10% of actual.

Sensors are sold with the understanding that it will be installed by a professional installer who has the required expertise and supporting documentation such as Mitchell or Motor electrical service manuals or equivalent. Users who attempt to install or install a sensor assume all responsibility for problems caused by incorrect or improper installation.

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Leica

Leica DISTO D2 Laser Distance Measurer

8517

Stores last 10 measurements and can recall them at any time. Ultra-compact, this unit fits in a pocket and is easy to operate! Shortcut keys for addition, subtraction, area, volume, Pythagoras (simple, partial, partial height), room angle, stake out, and room calculator calculations are done simply without requiring a separate calculator. An integrated inclination sensor (±45°) allows for grade and slope measurements (% or degrees) and one additional Pythagoras function. Other features include continuous minimum and maximum measuring functions; an automatic illuminated display/measurement button; multi-functional end piece; timer function; and it is dust- and splash-proof to IP54 standards. Supplied with 2 AAA batteries, a nylon belt pouch, a hand loop, and a user's manual.

Range: 2″ to 197′ (0.05m to 60m). **Accuracy:** ±1/6″ (±1.5mm). **Units of measure:** meters, feet, and inches. User selectable display rounds value to nearest 1/32″, 1/16″ or 1/8″. **Power:** 2 AAA batteries (included). **Battery Life:** up to 5,000 measurements. **Dimensions:** 4.25″ x 1.7″ x 1.0″. **Weight (including batteries):** 3.8 oz.

DISTO D2 10 oz.	C R	38950	$179.00

Note: Target plates are available for the DISTO D2 by special order. Call for details.

JIM-GEM® 8-Pocket Class 2 Mesh Vests pages 7 and 574

R Cannot be sold outside of North America

Sonin Combo Pro Electronic Distance Measurer

5702

Ideal for surveyors, engineers, foresters, contractors, architects, and more!

All you need is an unobstructed line of sight! Measures in feet, inches and 1/4 inches or, at the push of a button, meters and centimeters. Two internal memories allow you to manipulate measurements, add distances, obtain area (sq. ft.) and volume (cu. ft.) and add or subtract areas and volumes.

How to use:

To use the Sonin Combo Pro, place the electronic target at the end of the distance to be measured, aim the receiver at the target and press the button. The distance from the back of the receiver to the back of the target is displayed.

Can be used with or without an electronic target. Measures up to 60′ without target, up to 250′ with target. Use the electronic target to receive a beam of infrared light and return the signal for processing, computation and display. For indoor or outdoor use. You must have a direct and unobstructed line of sight between the sending unit and the target. Target is threaded for mounting on a tripod.

Current consumption: Approximately 50 hours continuous use with a new 9V alkaline battery. **Ultrasonic frequency:** Sonin 60 Pro - 40 KHz, Sonin Combo Pro - 25 KHz. **Air temperature compensation:** automatic compensation for variation of the speed of sound caused by air temperature. Fast automatic adjustment for differences between unit and ambient temperature, usually less than one minute. **Accuracy (at sea level and 53% RH):** 99.85% in still air at 32° to 100°F (0° to 40°C), 99% at 5-10 mph wind, 98% at 10-20 mph wind. **Resolution:** Distance-1/4″ or 1 cm. Area-0.1 sq. ft. or 0.01 sq. m. Volume-0.1 cu. ft. or 0.01 cu. m. **Display:** LCD with six digits and 14 function indicators. **Memories:** multiplication, addition and subtraction to calculate areas and volumes and to make differential measurements. **Special functions:** select feet and inches or meters and centimeters, low battery indicator, out-of-range indicator, auto shut-off. **Power:** 9V battery, one for Sonin 60 Pro; two for Sonin Combo Pro (batteries not included). **Size:** 5″ x 3″ x 1.2″.

Sonin Combo Pro with Electronic Target Unit	C	1 lb.	09715 2+	$114.50 $103.75
9V Alkaline Battery, single		3 oz.	02179	$3.20
Extension Tripod, 19.5″ to 48″		2 lbs.	37250	$126.75

Fast-Tach Distance Measuring Device

2969

Easy to install and use, this device measures distance or speed based on each turn of a vehicle's tire. Using the included brackets and suction cups, attach the pulse wheel to your vehicle so that the wheel rides against the sidewall of one tire. The high-speed friction drive wheel ensures accuracy. The Fast-Tach plugs into a 12 volt power outlet, features a hold count function, and can easily be moved from vehicle to vehicle.

Fast-Tach Distance Measuring Device	4 lbs.	01101	$475.00

C Combination English and Metric

Vehicle Distance Measurer

7173

Mounts easily on the dashboard! Designed to help contractors quickly and accurately measure parking lots, roads, utilities, and more in the comfort of a vehicle at up to highway speeds with unparalleled accuracy. Can also be mounted on ATV's, concrete saws, crack routers, striping machines, etc. Measures in feet or meters and displays mph, kph or feet per minute. Calibration is quick and easy. Other features include a hold count feature, reset count to zero on the fly, and it only measures 3″W x 1.5″H x 1.75″D.

Vehicle Distance Measurer	1 lb.	01100	$399.00

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Leica® DISTO™ D810 touch Laser Distance Measurer

8733

The world's first laser distance meter with a touchscreen, the D810 touch allows for easy, intuitive operation! In addition, the innovative "measure with a picture" feature determines width, height, area, and diameter of an object using a single measurement. The specific dimension is indicated on the touchscreen using two arrows in the picture, and the measured value is displayed. A built-in camera captures pictures or screen shots which can then be downloaded to your computer via USB interface. For added flexibility, Bluetooth® Smart supports the free Leica DISTO sketch 2.0 app that allows measurement data to be transferred to any iOS or Windows 8 program. The sketch app also lets you create scaled sketches, dimension objects in a photo, and check drawings. An integrated digital Pointfinder with 4x zoom ensures accurate measurements even in unfavorable light conditions. The D810 touch also features a 360° tilt sensor, Smart Horizontal Mode™, and height tracking. IP 54 rated. Includes holster, hand loop, USB charger with four plugs, USB cable, manual/safety instructions on CD, and quick start guide.

Range: 2″ to 650′ (0.05m to 200m). **Accuracy:** ±1/25″ (±1mm). **Units of measure:** meters, feet, inches. **Power:** Li-ion rechargeable. **Tripod Thread:** Yes. **Dimensions:** 6.5″ x 2.4″ x 1.2″. **Weight (including batteries):** 8.4 oz.

Leica DISTO D810 touch Laser Distance Measurer — C R — 1 lb. **38959** **$849.00**

New! Leica DISTO D810 touch Package, Includes Leica DISTO D810 touch, tripod, tripod adapter, and rugged carrying case. — C R — 4 lbs. **38960** **$1079.00**

Leica® DISTO™ E7400x Distance Measurer

2853

Combining multi-functionality and exceptional ruggedness, the E7400x provides reliable measurements even in the harshest work environments. An integrated 360° tilt sensor allows for precise determination of vertical or horizontal distances from remote locations, even over obstructions. A multi-function end-piece ensures automatic detection. The E7400x also features min/max measurement, continuous measurement, stake out function (two values), addition/subtraction, area/volume calculations, triangle area function, painter function, Pythagoras function (three points, partial height), Smart Horizontal Mode™ (including indirect height), height tracking, and Power Range Technology™. Measurements are shown on an illuminated four-line display, and the last 20 values are stored in memory. The rubber-coated, fiberglass-reinforced housing is IP65 rated, and the meter has been drop tested from a height of 6 feet. Supplied with a holster, hand loop, 2 AAA batteries, manual/safety instructions, and quick start guide.

Range: 2″ to 265′. **Accuracy:** ±1/16″ (±1.0mm). **Units of measure:** meters, feet, and inches. **Power:** 2 AAA batteries (included). **Battery Life:** up to 5,000 measurements. **Dimensions:** 4.8″ x 2.2″ x 1.2″. **Weight (including batteries):** 5.5 oz.

Leica DISTO E7400x Distance Measurer — C R — 11 oz. **38957** **$279.00**

New! Leica® DISTO™ E7100i Laser Distance Measurer

4949

The compact E7100i measures distance, calculates area, and features integrated Bluetooth® Smart that automatically sends measurements to your mobile device. With the free Leica DISTO™ sketch app, you can create sketches, generate floor plans, and document your measurements with images using a smartphone or a tablet. To measure the square footage of a space, simply press the "Area" button and then take two shots. IP54 certified (dust and splash water protected). Supplied with removable pocket clip, holster, and 2 AAA batteries.

Range: 6″ to 200′ (0.15m to 61m). **Accuracy:** ±1/16″ (±1.6mm). **Units of measure:** meters, feet, and inches. **Power:** 2 AAA batteries (included). **Battery Life:** up to 5,000 measurements. **Dimensions:** 4.72″ x 1.46″ x 0.91″. **Weight (including batteries):** 3.25 oz.

Leica DISTO E7100i Laser Distance Measurer — C R — 8 oz. **38969** **$149.00**

Leica® DISTO™ E7500i Laser Distance Measurer

4671

Equipped with a high-accuracy 360° tilt sensor and a digital Pointfinder, the E7500i measures angles and true horizontal distances quickly without using a reflective target point. The Pointfinder with 4x zoom lets you see the target in the crosshairs on the display, allowing for precise outdoor targeting even if the red laser point is not visible due to unfavorable light conditions. In addition, integrated Bluetooth® Smart Technology allows for convenient transfer of measurement data. With the free Leica DISTO Sketch app, you can create floor plans or data tables on your iPhone or iPad (supports Apple devices with BT 4.0 including iPhone 4S/5, Third Generation iPad, and iPad mini). Dimensions can be easily entered onto photographs. Using the efficient height profile measurement function, distances and height differences are displayed to an established reference point, making it easy to determine profile measurements. The E7500i includes the following functions: minimum/maximum measurements, area/volume measurement, triangle/room angle function, painter function, trapezium measurements, Pythagoras functions (two points and three points), inclination tracking, Smart Horizontal Mode™, sloped object measurement, height tracking, height profile measurements, stake-out function, and subtraction/addition. Simple to operate, the E7500i features a Help key and two programmable favorite keys for fast access to the functions you use the most. IP65 certified construction. Supplied with a holster, hand loop, 2 AA batteries, manual/safety instructions, and quick start guide.

Range: 650′ (0.05m to 200m). **Accuracy:** ±1/25″ (±1mm). **Units of Measure:** meters, feet, inches, and yards. **Power:** 2 AA batteries (included). **Tripod Thread:** Yes. **Dimensions:** 5.6″ x 2.28″ x 1.14″. **Weight (including batteries):** 6.37 oz.

Leica DISTO E7500i Laser Distance Measurer — C R — 12 oz. **38958** **$599.00**

R Cannot be sold outside of North America

C Combination English and Metric

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LASER TECHNOLOGY INC
Measurably Superior™

1

1 TruPulse® 200L Rangefinder/Hypsometer

4707

Affordable and reliable, the TruPulse 200L measures up to 3,280 feet (1,000 meters) without a reflector and offers an accuracy of ±3 feet (±1 meter) to any target at any range. Results are displayed in feet, yards, or meters on the in-scope LCD display. The rangefinder/hypsometer features a built-in inclinometer and provides vertical and horizontal distance measurements as well as slope distance and inclination measurements. The TruPulse 200L features flexible, two- or three-point height routines and two-dimensional Missing Line routine with auto sequencing. Choose from four advanced target modes: Closest (distinguishes near and far objects and identifies the closest target), Farthest (allows you to lock on the farthest target and shoot distant features through brush and foliage), Continuous (provides constant updates while locking on multiple targets), or Filter mode. The rugged housing is IP 54 rated for water- and dust-resistance.

Distance: Accuracy, ±3 ft. (±1 m) to any target at any range; Resolution, 1 ft./yd./m; Range, 3 ft. to 3,280 ft. (1 m to 1,000 m) typical to non-reflective targets, 3 ft. to 5,740 ft. (1 m to 1,750 m) to reflective targets; Measures in feet, yards, and meters. **Inclination:** Accuracy, ±0.5°; Resolution, 0.5°, 1%; Range, ±90°; Measures in degrees and % slope. **Magnification:** 4x. **Eye Safety:** FDA Class I (CFR 21). **Operating Temperature:** -4°F to 140°F (-20°C to 60°C). **Power:** 3.0V DC nominal; 1 type CR123A battery. **Battery Life:** 8 hours continuous use. **Dimensions:** 4.5˝ x 2˝ x 4˝. **Weight:** 10 oz.

TruPulse 200L Rangefinder/Hypsometer	C	15 oz.	**91568**	**$449.00**
Foliage Filter, Use to measure through foliage and detect pulses returned from a reflective target only		1 oz.	**90998**	**$57.50**

TruPulse® Rangefinder/Hypsometers

3872

Bluetooth® Capable

Crystal clear optics and outstanding ±1 ft. accuracy!

Compact and lightweight, TruPulse rangefinders/hypsometers allow you to view through the lens so that you can pinpoint the laser directly along your line of sight. And because measurements are displayed through the viewfinder, you never have to take your eyes off the target.

The TruPulse can measure distances up to 3,280´ (1,000m) without a reflective target. Results are displayed in feet, yards, or meters. An integrated tilt sensor allows you to measure horizontal or vertical distance and calculate an object's height instantly by using the built-in three-shot routine. The "Closest" operating mode distinguishes near and far objects and identifies the closest target, and the "Farthest" mode allows you to lock on the furthest target and shoot distant features through brush and foliage. "Continuous" mode provides constant updates while locking on multiple targets.

The TruPulse also features a "Brush Filter" mode. The TruPulse diopter is adjustable for comfortable viewing – even for eyeglass wearers. The housing is IP 54 rated for water- and dust-resistance, and features an RS 232 serial port to download data (Bluetooth® capability also available). Includes carrying case, lens cloth, neck strap, and operating manual.

TruPulse® Accessories

Foliage Filter, Use to measure through foliage and detect pulses returned from a reflective target only	1 oz.	**90998**	**$57.50**
4-pin to 4-pin Cable, Connects Criterion RD 1000 to TruPulse	1 oz.	**90997**	**$53.25**
Data Cable, For TruPulse Series Instruments	1 oz.	**90992**	**$73.50**

2

2 TruPulse® 200 Rangefinder/Hypsometer

Distance: Accuracy, ±1´ (±0.3m); Resolution, 0.5´ (0.1m); Range, 0 to 3,280´ (1,000m) typical, 6,560´ (2,000m) maximum to reflective target; Measures in feet, yards, and meters. **Inclination:** Accuracy, ±0.25°; Range, ±90°. **Magnification:** 7x. **Field of view:** 330´ at 1,000 yds. **Eye relief:** 21mm. **Eye safety:** FDA Class I (CFR 21). **Communication:** serial, via wired RS 232. **Operating temperature:** -4°F to 140°F (-20°C to 60°C). **Power:** 3.0V DC nominal, 2 AA batteries, or 1 type CRV3 (not included). **Dimensions:** 5˝ x 2˝ x 3.5˝. **Weight:** 8 oz.

TruPulse 200 Rangefinder/Hypsometer	C	1 lb.	**91182**	**$795.00**
TruPulse 200 Rangefinder/Hypsometer with Bluetooth	C	2 lbs.	**92855**	**$895.00**

3

TruPulse® 360° Rangefinder/Hypsometer

In addition to the features of the TruPulse 200, the TruPulse 360° includes a built-in digital compass sensor which allows you to shoot from any angle. TruVector™ technology provides the best possible compass accuracy regardless of the laser's orientation. The instrument can be tilted or rolled – even used upside down – making the TruPulse 360° ideal for taking measurements in difficult areas. The TruPulse 360° also features a calibration warning, and can be easily calibrated in the field. **Compass range:** 0 to 359.9°. **Compass accuracy:** ±1° typical.

TruPulse 360° Rangefinder/Hypsometer	C	2 lbs.	**92856**	**$1595.00**
TruPulse 360° Rangefinder/Hypsometer with Bluetooth	C	2 lbs.	**92857**	**$1695.00**

3 TruPulse® 360°R Rangefinder/Hypsometer

The ultimate in rugged functionality! Offering the same features as the TruPulse 360°, the 360°R utilizes a horizontal, binocular-style design that is easy to handle and a rugged, waterproof housing that provides excellent protection in harsh conditions. Waterproof to IP56. Bluetooth® capable.

TruPulse 360°R Rangefinder/Hypsometer with Bluetooth	C	1 lb.	**91567**	**$1795.00**

4

4 TruPulse® 200X Rangefinder/Hypsometer

The TruPulse 200X calculates horizontal and vertical distances as well as slope distance and inclination. This precision rangefinder/hypsometer obtains distance measurements up to 6,233 feet (1,900 meters) without a reflector, provides ±2˝ (±4 cm) accuracy, features a built-in inclinometer, and offers on-board routines (three-point height calculations and two-dimensional Missing Line). A bright red LED display provides outstanding visibility in all lighting conditions, and measurements are shown in feet/inches, yards, or meters/centimeters. TruTargeting automatically provides the best possible accuracy and acquisition distance to a given target. Choose from four advanced target modes: Closest (distinguishes near and far objects and identifies the closest target), Farthest (allows you to lock on the farthest target and shoot distant features through brush and foliage), Continuous (provides constant updates while locking on multiple targets), or Filter mode. The waterproof housing is IP56 rated for impact- and dust-resistance.

Distance: Accuracy, ±2˝ (±4 cm) to typical targets, ±1 ft. (±30 cm) to distant or weak targets; Resolution, 1˝/0.1 yd./1 cm; Range, 0 to 6,233 ft. (1,900 m) typical to non-reflective targets, 0 to 8,200 ft. (2,500 m) to reflective targets; Measures in feet/inches, yards, and meters/centimeters. **Inclination:** Accuracy, ±0.1° typical; Resolution, 0.1°, 0.1%; Range, ±90°; Measures in degrees and % slope. **Magnification:** 7x. **Field of View:** 330 ft. at 1,000 yds. (100 m at 915 m away). **Eye Safety:** FDA Class I (CFR 21). **Communication:** Serial port and Bluetooth. **Operating Temperature:** -4°F to 140°F (-20°C to 60°C). **Power:** 3.0V DC nominal; 1 type CR123A battery. **Battery Life:** 12 hours continuous use. **Dimensions:** 5˝ x 2˝ x 4.5˝. **Weight:** 13.5 oz.

TruPulse 200X Rangefinder/Hypsometer	C	2 lbs.	**91569**	**$1795.00**

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1 New! Nikon® Aculon Laser Rangefinder
4891

Designed for exceptional portability, this ultra-compact rangefinder weighs just 4.4 ounces and measures 3.6″ x 2.9″ x 1.5″. Multilayer coatings ensure light transmittance across the entire visible light spectrum to provide a more natural, clearer view. The rangefinder's Distant Target Priority Mode displays the range of the furthest target among a group of targets measured. Ranges are shown in 1-meter/yard intervals on the easy-to-view, uncluttered display. With single-button operation, the rangefinder provides fast measurements and automatically powers off after 8 seconds to increase battery life. The high-eyepoint design offers a full field of view when ranging targets even if you're wearing eyeglasses.

Measurement Range: 6 yds. to 550 yds. **Increment Reading (yds.):** 1. **Magnification:** 6x. **Angular Field of View (Real):** 6 degrees. **Angular Field of View (Apparent):** 43 degrees. **Eye Relief:** 18mm. **Diopter Adjustment:** ±4 degrees. **Objective Diameter:** 20mm. **Exit Pupil:** 3.3mm. **Power Source:** 1 CR2 Lithium battery. **Dimensions:** 3.6″L x 2.9″H x 1.5″W. **Weight (without batteries):** 4.4 oz.

Nikon Aculon Laser Rangefinder	C	11 oz.	**91586**	**$169.95**

1

2 New! Nikon® ProStaff® 3i Laser Rangefinder
7953

The ProStaff 3i utilizes ID (Incline/Decline) Technology to display horizontal distance in addition to actual distance. Simply press the Power On/Measurement button to begin measuring. Continue pressing the button to obtain constant measurements for up to 8 seconds, ideal for measuring the distance to a moving target. First Target Priority Mode displays the distance to the closest subject and is useful for measuring the distance to a subject in front of an overlapping background. Distant Target Priority Mode displays the farthest subject's distance. The rangefinder features a 6x monocular with multilayer coating for bright, clear images, and the long eye relief allows for easy viewing even if you're wearing eyeglasses. In addition to a compact, ergonomic design, the rangefinder features rainproof construction (IPX4 equivalent).

Measurement Range: 8 yds. to 650 yds. (7.3m to 590m). **Increment Reading:** Every 0.1 yd./m. **Magnification:** 6x. **Actual Field of View:** 7.5 degrees. **Eye Relief:** 18.3mm. **Objective Diameter:** 21mm. **Exit Pupil:** 3.5mm. **Power Source:** 1 CR2 Lithium battery. **Dimensions:** 4.4″L x 2.8″H x 1.4″W. **Weight (without batteries):** 5.6 oz.

Nikon ProStaff 3i Laser Rangefinder	C	6 oz.	**91590**	**$229.95**

2

3 New! Nikon® ProStaff® 7 Laser Rangefinder
7954

Featuring ID (Incline/Decline) Technology, the ProStaff 7 displays horizontal distance in addition to actual distance. The rangefinder provides single or continuous measurements (up to 8 seconds) at the touch of a button, and the LED backlit display allows for easy viewing in dark conditions. First Target Priority Mode displays the distance to the closest subject and is ideal for measuring the distance to a subject in front of an overlapping background. Distant Target Priority Mode displays the farthest subject's distance. The rangefinder combines Nikon's legendary multicoated optics, a 6x monocular, and long eye relief for convenient viewing even if you're wearing eyeglasses. Offering a compact, ergonomic design, the rangefinder is fogproof and waterproof (up to 1m for 10 minutes) for outstanding durability.

Measurement Range: 5 yds. to 600 yds. (4.5m to 550m). **Increment Reading:** Every 0.1 yd./m. **Magnification:** 6x. **Actual Field of View:** 7.5 degrees. **Eye Relief:** 18.3mm. **Objective Diameter:** 21mm. **Exit Pupil:** 3.5mm. **Power Source:** 1 CR2 Lithium battery. **Dimensions:** 4.4″L x 2.8″H x 1.5″W. **Weight (without batteries):** 6.2 oz.

Nikon ProStaff 7 Laser Rangefinder	C	6 oz.	**91591**	**$299.95**

3

4 Nikon® Monarch® Gold Laser1200 Long Range Rangefinder
3726

The Monarch's Tru-Target™ Ranging System and digital processor allow you to prioritize both small and hard to range targets with the push of a button. The First Target Priority mode allows you to range small objects and obtain an instant reading. The Distant Target Priority mode displays the range to the farthest target among the targets measured. Other features include a backlit LCD display, multicoated optics, and tripod adaptability. Guaranteed waterproof and fogproof, each Monarch is nitrogen-purged and O-ring sealed. Belt case, neck lanyard, and battery included.

Range: 11 yards to 1,200 yards. **Accuracy:** 1/2 yard at 550 yds. **Focusing system:** diopter ±4. **Magnification:** 7x. **Objective diameter:** 25mm. **Field of view at 1,000 yards:** 262′. **Close ranging distance:** 11 yards. **Exit pupil:** 3.6mm. **Relative brightness:** 12.9. **Eye relief:** 18.6mm. **Dimensions:** 5.7″x 3.2″. **Weight (without batteries):** 9.8 oz.

Monarch Gold Laser1200 Long Range	C	1 lb.	**91192**	**$443.00**

4

5 Nikon® Forestry PRO Laser Rangefinder/Hypsometer
7852

The ultimate forestry tool, this precision rangefinder/hypsometer provides accurate range, height, and angle measurements. The Forestry PRO features a three-point height measurement function that allows for accurate measurements even in dense areas of thick brush. Provided with a clear line of sight to a point on the stem, the unit calculates horizontal distance, then captures two other points to create an angle, and accurately calculates height. First Target Priority Mode allows you to range small objects and obtain an instant reading. Distant Target Priority Mode displays the range to the farthest target among the targets measured. The Forestry PRO features 6x magnification and provides several measurement readout options including actual distance, angle compensated distance (horizontal distance), angle (degrees), and height. Results are displayed in yards, meters, or feet. Featuring both an internal display and an external LCD display, reading the measurement data is easy. The Forestry PRO is waterproof and comes complete with a field case, quick start guide, and battery.

Range: 11 to 550 yds.; 10 to 500m; 33 to 999 ft. **Resolution:** 0.5 yds.; 0.5m; 1 ft. **Accuracy:** ±1/2 yd. out to 99 yds.; ±1 yd. from 100 to 550 yds. **Power:** one 3V CR2 battery (included).

Nikon® Forestry PRO Laser Rangefinder/Hypsometer		1 lb.	**91140**	**$399.95**
CR2, 3V Lithium Battery, single		1 oz.	**92490**	**$8.75**

5

C Combination English and Metric

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Bushnell®

New! Bushnell® G-Force® DX ARC Laser Rangefinder

2791

Equipped with a 2nd Generation E.S.P.™ (Extreme. Speed. Precision.) Turboprocessor, this rangefinder delivers 1/2-yard accuracy and 1/10-yard display precision. Vivid Display Technology™ (VDT) ensures bright, clear distance readings even in low light with an effective range of 5 to 1,300 yards. Angle Range Compensation (ARC) accounts for the terrain angle when calculating distance, enabling you to know precisely how to shoot the range. The rangefinder boasts 6x optics and patented RainGuard® HD lens coating. In addition to BullsEye™, Brush™, and Scan modes, the rangefinder also features Bow Mode and Rifle Mode. VSI™ (Variable Sight-In) offers shot angle information from -90° to +90°. This fully waterproof rangefinder features rubber-armored metal housing, diopter adjustment, a Posi-Thread™ battery door, and a built-in tripod mount.

Range: 5 to 1,300 yards. **Magnification:** 6x. **Ranging Performance:** Reflective, 1,300 yards; Tree, 900 yards; Deer, 600 yards. **Accuracy:** ±1/2 yard. **Power:** 3-volt CR2 battery (included). **Weight:** 8 oz. **Dimensions:** 1.3″ x 4″ x 2.9″.

Bushnell G-Force DX ARC Laser Rangefinder	C	14 oz.	**91344**	**$399.00**

Bushnell®

New! Bushnell® Elite® 1 Mile ARC Rangefinder

7791

Rugged and reliable, this rangefinder provides true horizontal distance up to 1,000 yards. ARC (Angle Range Compensation) instantly accounts for the angle when calculating distance to deliver superior precision. Second Generation E.S.P.™ (Extreme. Speed. Precision.) ensures 1/2-yard accuracy from 5 to 199 yards, and the rangefinder offers one-yard accuracy out to one mile. You can select from three selective targeting modes. Automatic Scan Mode scans across the landscape and provides continuously updated distance information. BullsEye™ Mode acquires distances to closer-range targets without inadvertently measuring targets in the background. Brush™ Mode ignores objects in the foreground and instead provides distance measurements to background objects only. Vivid Display Technology improves contrast, clarity, and light transmission to allow for rapid identification in all lighting conditions. VSI™ (Variable Sight-In) offers shot angle information from -90° to +90°. This fully waterproof rangefinder also features 7x magnification, multi-coated optics, diopter adjustment, a built-in tripod mount, and a Posi-Thread™ battery door.

Range: 5 to 1,760 yards. **Magnification:** 7x. **Ranging Performance:** Reflective, 1,760 yards; Tree, 1,000 yards; Deer, 500 yards. **Accuracy:** ±1/2 yd. **Laser:** Class 1 (invisible/eye safe). **Power:** 3V CR123 battery (included). **Weight:** 12.1 oz. **Dimensions:** 1.7″ x 5.1″ x 3.7″.

Bushnell Elite 1 Mile ARC Rangefinder	C	2 lbs.	**91141**	**$599.00**

Bushnell®

Bushnell® Scout® DX 1000 ARC Laser Rangefinder

4777

Featuring an E.S.P.™ (Extreme. Speed. Precision.) turboprocessor, this compact rangefinder offers lightning-fast target acquisition! The Scout DX 1000 features 6x magnification, a measurement range of 5 to 1,000 yards, up to 1/2 yard accuracy, and 1/10th yard display precision. The patented ARC (Angle Range Compensation) calculates compensated distance based on terrain angle to provide accurate "shoots like" readings out to 99 yards. Other features include VSI™ (Variable Sight-In) function, three modes (BullsEye™, Brush™, and Scan), diopter adjustment to ensure crystal clear viewing, a Posi-Thread™ battery door, a built-in tripod mount, and 100% waterproof, rubber-armored construction. Carrying case, battery, and neck strap included.

Range: 5 to 1,000 yards. **Magnification:** 6x. **Ranging Performance:** Reflective, 1,000 yards; Tree, 650 yards; Deer, 325 yards. **Accuracy:** ±1/2 yard. **Power:** 3-volt CR2 battery (included). **Weight:** 6.6 oz. **Dimensions:** 1.3″ x 4″ x 2.9″.

Bushnell Scout DX 1000 ARC Laser Rangefinder	C	14 oz.	**91184**	**$332.25**

Bushnell®

Bushnell® Sport® 850 Rangefinder

7790

Lightweight and compact, the Sport 850 provides lightning fast distance measurements from 5 to 850 yards and features 4x magnification. The bright, crystal-clear optics ensure sharp viewing even in low light, and the anti-slip finish on the rainproof housing provides a sure grip. The Sport 850 features a battery life indicator and a Posi-Thread™ battery door that offers the ultimate in battery security and fast replacement. Carry case, battery, and neck strap included.

Range: 5 yd. minimum; 200 yds. to a deer; 600 yds. to a tree; 850 yds. reflective. **Accuracy:** ±1 yd. **Laser:** Class 1 (invisible/eye safe). **Magnification:** 4x. **Power:** 3V battery (included). **Weight:** 6.0 oz. **Dimensions:** 1.4″ x 3.8″ x 2.9″.

Bushnell Sport 850 Rangefinder	C	12 oz.	**91126**	**$220.00**

C Combination English and Metric

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LEUPOLD

Leupold® RX-600i Rangefinder

7329

The RX-600i with DNA™ (Digitally eNhanced Accuracy) technology combines affordability and accuracy in one reliable rangefinder! Third Generation infrared laser technology and the advanced signal processing of the DNA engine provide increased ranging dependability on soft, non-reflective targets. In addition, the RX-600i offers outstanding ranging speed and accuracy (within 1/2 yard to 125 yards) regardless of target color. Measurements are shown in yards or meters, and the 6x magnification provides plenty of power with a wide field of view. Rugged and completely weatherproof, the RX-600i features an intuitive quick set menu, three user-selectable aiming reticles, fully multicoated optics, and a fold-down rubber eyecup for use with or without eyeglasses.

Range: Maximum, 600 yds. (548.6m); Minimum, 6 yds. (5.5m). **Magnification:** 6x. **Field of view (at 1,000 yds.):** 325′. **Eye relief:** 21mm. **Objective lens diameter:** 23mm. **Angular field of view:** 6°. **Exit pupil:** 3.8mm. **Weight:** 6.8 oz. **Dimensions:** 4.2″ x 3.0″ x 1.6″.

Leupold RX-600i Rangefinder	C	11 oz.	**90970**	**$280.00**

LEUPOLD

Leupold® RX-800i Rangefinder

7329

Third Generation infrared laser technology and the advanced signal processing of the DNA™ (Digitally eNhanced Accuracy) engine provide excellent ranging reliability on soft, non-reflective targets. The RX-800i offers outstanding ranging speed and accuracy (within 1/2 yard to 125 yards) regardless of target color. The Trophy Scale feature allows you to quickly and accurately judge the width and/or height of a target. After setting the baseline measurement you are looking for (between 10 and 60 inches), the rangefinder alerts you if a target measures up. The RX-800i displays measurements in yards or meters, and 6x magnification provides plenty of power. The waterproof RX-800i features an intuitive quick set menu, three user-selectable aiming reticles, fully multicoated optics, and a fold-down rubber eyecup for use with or without eyeglasses.

Range: Maximum, 800 yds. (731.5m); Minimum, 5.9 yds. (5.4m). **Magnification:** 6x. **Field of view (at 1,000 yds.):** 320′. **Eye relief:** 14mm. **Objective lens diameter:** 22mm. **Angular field of view:** 6°. **Exit pupil:** 3.6mm. **Weight:** 7.0 oz. **Dimensions:** 4.2″ x 3.0″ x 1.6″.

Leupold RX-800i Rangefinder	C	11 oz.	**90971**	**$340.00**

OPTI-LOGIC CORPORATION

Opti-Logic Laser InSight™ Hypsometers and Rangefinders with Internal LED Display

7101

Accurate, affordable measurements (heights, distances, and angles) in seconds – in feet, yards, or meters!

InSight™ Rangefinders with Internal LED Display

Accurately measures distances in feet, meters, or yards quickly using an eye-safe laser. This economical, reliable rangefinder has simple, one-button operation. An audible target acquisition indicator emits a chirping sound as you home in on target. Audible target indicator can be turned off. Distance measurements are shown on both external and internal displays. Features include LED red dot sighting system, low battery indicator, and ergonomic plastic shell. Completely eyesafe and conforms to all provisions of US21 CRF 1040.1 (CDRH Class I Laser Product). RoHS compliant.

Accuracy: ±3 ft. **Power:** 9 Volt battery. **Dimensions:** 4-1/4″ x 5″ x 1-7/8″.

400XL Laser Rangefinder, Range: 400 yds.; 999 yds. with reflective target	C	1 lb.	**91097**	**$244.95**
1000XL Laser Rangefinder, Range: 1,000 yds.; 1,500 yds. with reflective target	C	1 lb.	**91397**	**$263.95**
9V Alkaline Battery, single		3 oz.	**02179**	**$3.20**

InSight™ Hypsometers with Internal LED Display

The internal electronic tilt sensor provides quick vertical angle measurements for easy determination of heights of trees and other objects. Each precision instrument measures line of sight distance, horizontal distance, and two- and three-point height as well as reading angles in degrees and percent. Measurement results are shown on both external and internal displays so that you can continue looking through the viewfinder and still see angle, distance, and height measurements. Housed in a rugged injection-molded plastic shell, the hypsometer/rangefinder offers simple, one-button operation. Using the red dot aiming system, simply aim at a reference point on the object to determine the distance to the reference point. Next, aim the instrument at the top of the object and then at the base to obtain an angle measurement. The height from the base to the top of the object is automatically calculated and displayed in feet, meters, or yards. Other features include: LED red dot sighting system, high tech hidden lens design, and low battery indicator. Completely eyesafe and conforms to all provisions of US21 CRF 1040.1 (CDRH Class I Laser Product). RoHS compliant.

Units: Distance: feet, meters, or yards; **Angle:** degrees or percent grade. **Resolution:** 0.5′. **Accuracy: Distance:** ±1 yd.; **Angle:** ±0.2°; **Height:** ±1 ft. (plus 5% of reading). **Angle resolution:** 0.5°. **Power:** 9 Volt battery (included). **Weight:** 11 oz. **Dimensions:** 4″ x 5-1/4″ x 1-3/4″.

400LH Laser Hypsometer, Range: 400 yds.; 999 yds. with reflective target	C	1 lb.	**91125**	**$249.95**
1000LH Laser Hypsometer, Range: 1,000 yds.; 1,500 yds. with reflective target	C	1 lb.	**91047**	**$329.95**
9V Alkaline Battery, single		3 oz.	**02179**	**$3.20**

C Combination English and Metric

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Forestry Suppliers Weather-Resistant Field Books

Forestry Suppliers Field Book
5735

Left page has horizontal lines and six vertical columns. Right page has 4 x 4 lines and vertical center line. 80 Leaves. Hardback cover.

FB842 – 50% rag paper, 4-1/2″ x 7-1/4″	9 oz.	**49352**	**$8.25**
		12+	**$7.95**

Forestry Suppliers Cross Section Books
5739

80 Leaves of 50% rag paper, hardback cover. Each book measures 6-1/2″ x 8-1/2″.

CB802 – English, both pages have 10 x 10 lines with inch lines slightly heavier	14 oz.	**49357**	**$16.20**
		12+	**$14.70**

Forestry Suppliers Mining Transit Book
5744

Left page has horizontal lines with six vertical columns. Right page has 8 x 8 lines and center vertical line. Hardback cover. 80 Leaves.

MB802 – 50% rag paper, 4-5/8″ x 7-1/4″	9 oz.	**49362**	**$11.25**
		12+	**$10.25**

Forestry Suppliers Level Books
5737

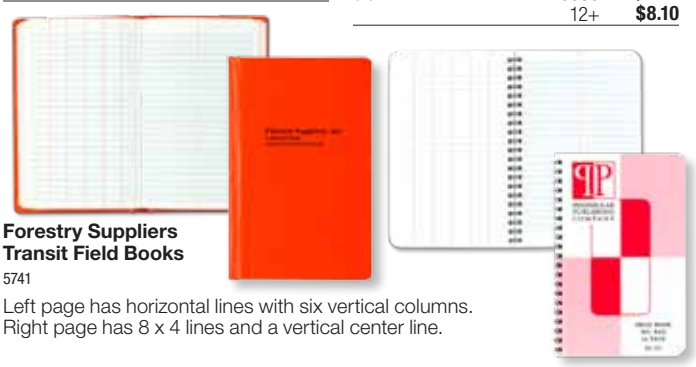
Both pages have horizontal lines with six vertical columns. 50% rag paper. Hardback cover.

LB822 – 80 Leaves, 4-5/8″ x 7-1/4″	10 oz.	**49354**	**$8.25**
		12+	**$7.95**
LB802 – 60 Leaves, 4-1/8″ x 6-1/2″	8 oz.	**49355**	**$8.50**
		12+	**$8.10**

Forestry Suppliers Transit Books
5740

Left page has horizontal lines with six vertical columns. Right page has 10 x 10 lines with 10th vertical line and every 5th horizontal line slightly heavier. Vertical center line.

TB802 (English) – 80 Leaves of 50% rag paper, hardback cover, 4-3/8″ x 7-1/4″	E	9 oz.	**49361**	**$8.95**
			12+	**$8.65**
MTB02 (Metric) – 80 Leaves of 50% rag paper, hardback cover, 4-3/8″ x 7-1/4″	M	10 oz.	**49301**	**$11.25**
			12+	**$10.25**



Forestry Suppliers Transit Field Books
5741

Left page has horizontal lines with six vertical columns. Right page has 8 x 4 lines and a vertical center line.

FB802 – Hardback cover, 80 leaves, 50% rag paper, 4-5/8″ x 7-1/4″	10 oz.	**49358**	**$8.25**
		12+	**$7.95**
FB352 – Wire bound heavy board cover, 32 leaves, 50% rag paper, 4-5/8″ x 7-1/4″	3 oz.	**49359**	**$5.65**
		12+	**$5.25**

SOKKIA

Sokkia™ Mining Transit Book
4645

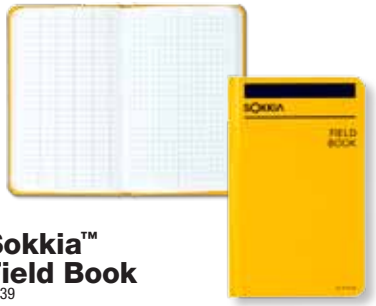
Hardback cover, 80 leaves, 50% rag paper, 4-1/2″ x 7-1/4″. Durable, acid-free. **Left Page:** 6 columns. **Right Page:** 8x8 grid.

8152-20 Sokkia Mining Transit Book	8 oz.	**49469**	**$11.75**
		6+	**$10.95**

Sokkia™ Cross Section Book
4644

Hardback cover, 80 leaves, 50% rag paper, 6-1/2″ x 8-1/2″. Weatherproof, durable. Both pages have 10 x 10 blue lines with inch lines slightly heavier.

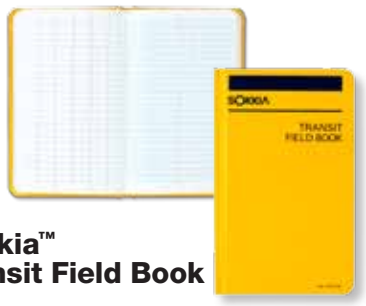
8152-75 Sokkia Cross Section Book	13 oz.	**49470**	**$10.95**
		6+	**$9.95**



Sokkia™ Field Book
6839

Hardback cover, 80 leaves, high wet strength paper, 4-5/8″ x 7-1/2″.

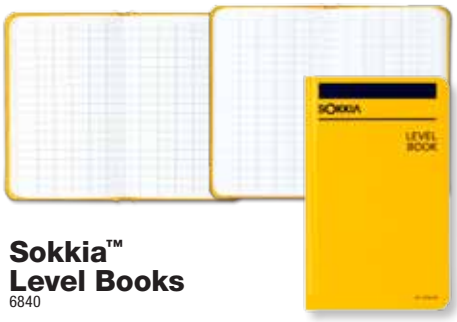
8152-60 Sokkia Field Book	9 oz.	**49334**	**$7.90**
		6+	**$7.40**



Sokkia™ Transit Field Book
6841

Hardback cover, 80 leaves, 50% rag paper, 4-5/8″ x 7-1/2″.

8152-00 – Transit Field Book	9 oz.	**49331**	**$7.90**
		6+	**$7.40**



Sokkia™ Level Books
6840

Hardback cover, 80 leaves, high wet strength paper.

8152-50 – 4-1/4″ x 6-3/4″ Level Book	7 oz.	**49332**	**$7.90**
		6+	**$7.40**
8152-55 – 4-5/8″ x 7-1/2″ Level Book	9 oz.	**49333**	**$7.90**
		6+	**$7.40**

E English M Metric

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Rite in the Rain® Field Books

The perfect paper for those involved in outdoor data collection.

Rite in the Rain® field books allow you to work efficiently in any weather and still protect your valuable data. Available in a variety of sizes for your specific requirements.

Rite in the Rain® ALL-WEATHER WRITING PAPER

Bound Books
5726

The "professional's" bound book. This is the only bound book manufactured with true outdoor components. The cover, even the glue, is designed to survive. Durable polyethylene or Fabrikoid (hardbound cloth).

Pocket-Sized Bound Book
5732

This bound book conveniently slips into your pocket. Includes a title and contents page. Fabrikoid cover (hardbound cloth). 80 Leaves. 4-1/4″ x 6-3/4″.

Spiral Notebooks
5725

Ideal for jobs that don't require a bound book. Folds back cover to cover. Popular for student field trips. Poly cover, wire-o spiral. 32 Leaves. 4-5/8″ x 7″.

Notebooks
5723

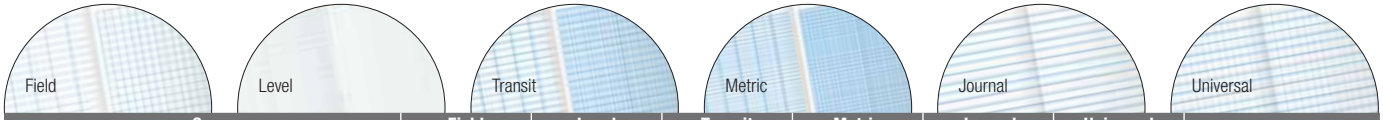
The most popular field notebook in history. High quality yet economical. Yellow tagboard cover, staple stitched.

Optional Clear Vinyl Cover		
1 oz.	**43422**	**$2.65**
	12+	**$2.00**

Field-Flex Notebooks With Universal Pattern page 556

Mini-Notebooks
5724

A very popular shirt pocket notebook. Lowest price, yet still made to the same exacting standards as the entire Rite-in-the-Rain line. **Sold in pack of 12.**



	Cover				Field		Level		Transit		Metric		Journal		Universal				
	Cover	Color	Size	Lvs	Model	SN	Model	SN	Model	SN	Model	SN	Model	SN	Model	SN	Weight	Each	12+
Bound Books	Polyethylene	Yellow	4-5/8″ x 7-1/2″	80	350	**49328**	310	**49326**	300	**49323**	360 Ⓜ	**49322**	390	**49321**			10 oz.	**$18.95**	**$18.25**
	Polyethylene	Yellow	4-5/8″ x 7-1/2″	80	350N*	**49344**							390N*	**49345**			10 oz.	**$20.95**	**$20.25**
	Fabrikoid	Yellow	4-3/4″ x 7-1/2″	80	350F	**49493**	310F	**49492**	300F	**49491**	360F Ⓜ	**49494**	390F	**49495**			11 oz.	**$18.95**	**$18.25**
	Fabrikoid	Yellow	4-3/4″ x 7-1/2″	80	350NF*	**49496**							390NF*	**49497**			11 oz.	**$20.95**	**$20.25**
	Fabrikoid	Yellow	4-1/4″ x 6-3/4″	80									390-4F	**49253**			9 oz.	**$17.95**	**$17.25**
New!	Fabrikoid	Black	4-3/4″ x 7-1/2″	80											770F	**49499**	9 oz.	**$18.95**	
New!	Fabrikoid	Black	8-1/2″ x 11″	80											770F-MX	**49500**	2 lbs.	**$29.95**	
Spiral Notebooks	Polyethylene	Yellow	4-5/8″ x 7″	32	353	**49319**					363 Ⓜ	**49272**	393	**49320**			4 oz.	**$7.70**	**$6.95**
	Polyethylene	Yellow	4-5/8″ x 7″	32			313	**49318**	303	**49317**							4 oz.	**$7.70**	**$6.95**
	Polyethylene	Yellow	4-5/8″ x 7″	32	353N*	**49296**							393N*	**49298**			4 oz.	**$8.60**	**$7.95**
	Polyethylene	Yellow	4-5/8″ x 7″	32											373	**49374**	4 oz.	**$7.70**	**$6.95**
	Polyethylene	Tan	4-5/8″ x 7″	32											973T	**49443**	4 oz.	**$7.25**	**$6.95**
New!	Polyethylene	Black	4-5/8″ x 7″	32											733	**49502**	3 oz.	**$7.70**	**$6.95**
Notebooks	Tagboard	Yellow	4-5/8″ x 7″	24	351	**49329**	311	**43421**	301	**43417**	361 Ⓜ	**49271**	391	**49342**			3 oz.	**$4.15**	**$3.85**
	Tagboard	Yellow	4-5/8″ x 7″	24											371*	**49368**	3 oz.	**$4.15**	**$3.85**
Mini-Notebooks	Tagboard	Yellow	3-1/4″ x 4-5/8″	12			311-M	**49327**					391-M	**49316**			8 oz.	**$25.85/12 pk.**	
	Tagboard	Yellow	3-1/4″ x 4-5/8″	12											371-M*	**49369**	9 oz.	**$25.85/12 pk.**	

Note: N* indicates numbered pages. F* indicates a Fabrikoid cover.

Forestry Suppliers' Surveyor's Job Book
5747

Convenient eight-leaf (16-page) softcover book designed to hold information for one job, then to be placed in file. Right page: 8 x 4 grid. Left page: six columns. 50% Rag, water-resistant paper. Pages measure 4-5/8″ x 7-1/4″. Transit pattern. Pack of 6.

Surveyor's Job Book, pack of 6	6 oz.	**49365**	**$13.25**
	6+		**$11.95**
	10+		**$10.25**

Ⓜ Metric

Rite in the Rain® Cordura® Notebook Covers
4309

Each Cordura® notebook cover holds up to four writing utensils and features a rugged zipper closure.

Model	Color	Fits	Weight	SN	Each
No. C935B	Black	3″ x 5″ top spiral notebooks	2 oz.	**49356**	**$13.95**
No. C935	Tan		2 oz.	**49195**	**$13.95**
New! No. C935M	Camo		2 oz.	**49505**	**$13.95**
No. C946B	Black	4″ x 6″ top spiral notebooks	3 oz.	**49370**	**$14.95**
No. C946	Tan		3 oz.	**49196**	**$14.95**
New! No. C946M	Camo		2 oz.	**49506**	**$14.95**
No. C980B	Black	4-5/8″ x 7″ Spiral Notebooks, 4-5/8″ x 7-1/4″ Field-Flex Books, Pocket-Sized, and Regular-Sized Bound Books	3 oz.	**49353**	**$17.95**
No. C980	Tan		3 oz.	**49199**	**$17.95**
New! No. C980M	Camo		3 oz.	**49508**	**$17.95**

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Rite in the Rain® Cordura Belt Pouch
2952

Cordura® pouch holds the 4″ x 6″ top spiral journals as well as other essential gear. Features a rugged buckle closure and belt loops. Closed size: 5-1/2″ x 7″. **Color:** Tan.

C1700, Cordura Belt Pouch
3 oz. **49351** **$17.95**

Rite in the Rain® Cordura® Notebook Covers
4309

Each Cordura® notebook cover holds up to four writing utensils and features a rugged zipper closure.

No. C935B – Black, Fits all 3″ x 5″ top spiral notebooks.
2 oz. **49356** **$13.95**

No. C935 – Tan, Fits all 3″ x 5″ top spiral notebooks.
2 oz. **49195** **$13.95**

New! No. C935M – MultiCam® Camo, Fits all 3″ x 5″ top spiral notebooks.
2 oz. **49505** **$13.95**

No. C946B – Black, Fits all 4″ x 6″ top spiral notebooks.
3 oz. **49370** **$14.95**

No. C946 – Tan, Fits all 4″ x 6″ top spiral notebooks.
3 oz. **49196** **$14.95**

New! No. C946M – MultiCam® Camo, Fits all 4″ x 6″ top spiral notebooks.
2 oz. **49506** **$14.95**

No. C980B – Black, Fits all 4-5/8″ x 7″ Spiral Notebooks, 4-5/8″ x 7-1/4″ Field-Flex Books, Pocket-Sized, and Regular-Sized Bound Books.
3 oz. **49353** **$17.95**

No. C980 – Tan, Fits all 4-5/8″ x 7″ Spiral Notebooks, 4-5/8″ x 7-1/4″ Field-Flex Books, Pocket-Sized, and Regular-Sized Bound Books.
3 oz. **49199** **$17.95**

New! No. C980M – MultiCam® Camo, Fits all 4-5/8″ x 7″ Spiral Notebooks, 4-5/8″ x 7-1/4″ Field-Flex Books, Pocket-Sized, and Regular-Sized Bound Books.
3 oz. **49508** **$17.95**

Rite in the Rain® Memo Books
5733

Keep one of these Memo Books handy for use in any kind of weather!

New! No. 735 – Black, 3″ x 5″ Top Spiral Memo, Universal pattern, black polydura cover, 50 dark gray-tinted leaves (100 Pages).
4 oz. **49503** **$4.70**
12+ **$3.95**

No. 135 – Yellow, 3″ x 5″ Top Spiral Memo, Universal pattern, yellow polydura cover, 50 leaves (100 Pages).
3 oz. **49241** **$4.70**
12+ **$3.95**

No. 935 – Green, 3″ x 5″ Top Spiral Memo, Universal pattern, tactical green polydura cover, 50 green-tinted leaves (100 Pages).
2 oz. **49256** **$4.70**
12+ **$3.95**

No. 935T – Tan, 3″ x 5″ Top Spiral Memo, Universal pattern, tactical tan polydura cover, 50 tan-tinted leaves (100 Pages).
2 oz. **49442** **$4.75**
12+ **$3.95**

New! No. 746 – Black, 4″ x 6″ Top Spiral Memo, Universal pattern, black polydura cover, 50 dark gray-tinted leaves (100 Pages).
3 oz. **49504** **$4.85**
12+ **$4.25**

No. 146 – Yellow, 4″ x 6″ Top Spiral Memo, Universal pattern, yellow polydura cover, 50 leaves (100 Pages).
4 oz. **49242** **$5.25**
12+ **$4.75**

No. 946 – Green, 4″ x 6″ Top Spiral Memo, Universal pattern, tactical green polydura cover, 50 green-tinted leaves (100 Pages).
3 oz. **49423** **$4.95**
12+ **$4.50**

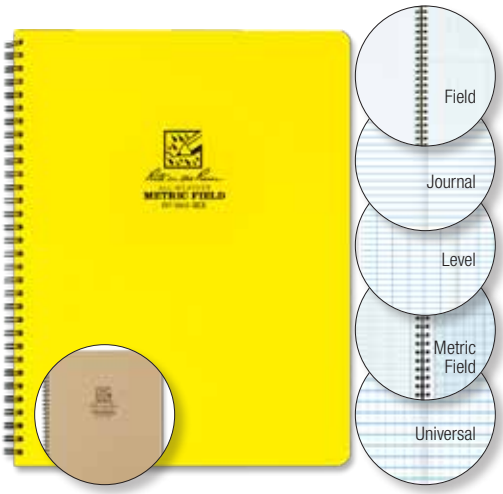
No. 946T – Tan, 4″ x 6″ Top Spiral Memo, Universal pattern, tactical tan polydura cover, 50 tan-tinted leaves (100 Pages).
3 oz. **49424** **$4.95**

No. 100 – 3-1/4″ x 5-1/4″ Top Bound Memo, Journal pattern, perforated sheets, 25 leaves (50 Pages).
2 oz. **49343** **$4.70**
12+ **$3.95**

No. 393-M – 3-1/4″ x 5″ Mini-Side Spiral Memo, Journal pattern, yellow polydura cover, 50 leaves (100 Pages).
2 oz. **49438** **$4.25**
12+ **$3.75**

No. 169 – 6″ x 9″ Steno-Sized Top Spiral Memo, Universal Pattern, yellow polydura cover, 50 leaves (100 Pages).
7 oz. **49466** **$9.95**
12+ **$9.25**

No. 185 – 8-1/2″ x 11″ Top Spiral Notebook, Universal pattern, yellow polydura cover, 42 leaves (84 Pages).
15 oz. **49244** **$14.95**



Rite in the Rain® Maxi-Spiral Notebook
5728

Large format notebook. Poly cover. Wire-o spiral bound. 42 Leaves. 8-1/2″ x 11″.

No. 353-MX – Field Pattern	15 oz.	**49245**	**$16.40**
		12+	**$14.95**
No. 393-MX – Journal Pattern	14 oz.	**49233**	**$16.40**
		12+	**$14.95**
No. 313-MX – Level Pattern	15 oz.	**49236**	**$16.40**
		6+	**$14.95**
No. 373-MX – Universal Pattern, Yellow Cover	13 oz.	**49375**	**$16.40**
		6+	**$14.95**
No. 363-MX – Metric Field Pattern (M)	14 oz.	**49376**	**$16.40**
		12+	**$14.95**
No. 973T-MX – Universal Pattern, Tan Cover	13 oz.	**49433**	**$16.40**
		12+	**$14.95**

(M) Metric

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Rite in the Rain ALL-WEATHER WRITING PAPER

Rite in the Rain® Ring Binders
5730

Field tough, yellow polyethylene covers. Chrome, rust-resistant metals. Clear storage pocket. Holds standard 4-5/8″ x 7″ six-ring loose leaf paper.

No. 200 – Yellow, 1/2″ Capacity	5 oz.	**43455**	**$10.95**
No. 210 – Yellow, 1″ Capacity	6 oz.	**49313**	**$11.95**
No. 9200 – Green, 1/2″ Capacity	5 oz.	**49440**	**$10.95**
No. 9200T – Tan, 1/2″ Capacity	5 oz.	**49441**	**$10.95**

Rite in the Rain® Binder Cover
4538

This Cordura® Binder Cover fits 1/2″ capacity Rite in the Rain® Ring Binders. It has a rugged zipper closure and holds up to 4 writing utensils!

No. C9200 – Ring Binder Cover, Tan, Fits the No. 200, 204, 9200, and 9200T Rite in the Rain Field Binders	4 oz.	**49197**	**$17.95**
No. C9200B – Ring Binder Cover, Black, Fits the No. 200, 204, 9200, and 9200T Rite in the Rain Field Binders	4 oz.	**49371**	**$17.95**
New! No. C9200M – Ring Binder Cover, MultiCam Camo, Fits the No. 200, 204, 9200, and 9200T Rite in the Rain Field Binders	3 oz.	**49507**	**$17.95**

Loose Leaf Copier Paper
4310

Each sheet of 8-1/2″ x 11″ laser/photo copier paper has two 4-5/8″ x 7″ pre-perforated loose leaf sheets. Simply print your own format on a laser printer or photocopier and then punch out the loose leaf sheets. Box of 150 master sheets yields 300 six-hole loose leaf sheets.

Loose Leaf Copier Paper	3 lbs.	**43454**	**$39.50**

Rite in the Rain® Loose Leaf Paper
5731

These are the loose leaf sheets used by the pros. Special 6-slot round punches fit Rite in the Rain Ring Binders No. 200 (43455) and No. 210 (49313). 4-5/8″ x 7″ Sheet size. Pack of 100 sheets.

No. 302 – Transit	10 oz.	**43461**	**$13.95**
No. 312 – Level	9 oz.	**43462**	**$13.95**
No. 342 – Cruiser's Transit	9 oz.	**43465**	**$13.95**
No. 352 – Field	10 oz.	**43466**	**$13.95**
No. 362 – Metric Field (M)	10 oz.	**49314**	**$13.95**
No. 382 – 5mm Metric Grid (M)	10 oz.	**43457**	**$13.95**
No. 392 – Journal	10 oz.	**43468**	**$13.95**
No. 395 – Blank Pattern	9 oz.	**49430**	**$13.95**
No. 372 – Universal Pattern	10 oz.	**49366**	**$13.95**
No. 982 – Green, Universal Pattern	9 oz.	**49431**	**$13.95**
No. 982T – Tan, Universal Pattern	9 oz.	**49432**	**$13.95**

Gerber Impromptu Tactical Pen
page 19

(M) Metric

Rite in the Rain® All-Weather Pens
5727

The ideal ballpoint pen for use outdoors and even underwater!

Writes underwater, upside down, and in temperatures as low as -30°F. **Temperature Range:** -30°F to 250°F.

No. 37, No. 47 and No. 57 All-Weather Standard Clicker Pen

Chrome/plastic barrel. 5-1/4″ Long.

No. 37 – Standard Pen, Black Ink	1 oz.	**49237**	**$10.95**
		12+	**$9.95**
No. 47 – Standard Pen, Blue Ink	1 oz.	**49239**	**$10.95**
		12+	**$9.95**
No. 57 – Standard Pen, Red Ink	1 oz.	**49226**	**$10.95**
		12+	**$9.95**
No. C97 – Standard Pen Holster, Black Cordura holster with adjustable Velcro® and elastic strap	1 oz.	**49445**	**$7.65**

No. 97 All-Weather Tactical Clicker Pen

All-weather, tactical clicker pen. Flat black steel casing. 5-1/4″ Long.

Tactical Pen No. 97, Black Ink	1 oz.	**49232**	**$15.95**
		12+	**$14.95**
Tactical Pen No. 97B, Blue Ink	1 oz.	**49234**	**$15.95**
		12+	**$14.95**

Refills for Standard and Tactical Clicker Pens

Choose black, blue or red ink. Refills work with Standard and Tactical Pens.

No. 37R, Black Ink Refill	1 oz.	**49238**	**$8.25**
		12+	**$6.95**
No. 47R, Blue Ink Refill	1 oz.	**49235**	**$8.25**
		12+	**$6.95**
No. 57R, Red Ink Refill	1 oz.	**49227**	**$6.95**
		12+	**$6.25**

Silver Bullet All-Weather Pen
5727

Closes to only 3-3/4″ long. Silver metal barrel. Black ink.

No. 36, Bullet Pen, Silver	1 oz.	**49337**	**$25.95**
		12+	**$24.75**

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Rite in the Rain® ALL-WEATHER WRITING PAPER

Rite in the Rain® Index Card Wallet Kit
2956

Durable and tough CORDURA® fabric wallet comes with 100 - 3″ x 5″ Rite in the Rain No. 991T tactical index cards (tan) and a No. 97 All-Weather Pen.

No. 991T-Kit Index Card Wallet Kit 8 oz.	**49425**	**$39.95**
No. 991 – Tactical Index Cards, Pack of 100, Green, 3″ x 5″ 6 oz.	**49426**	**$10.95**
No. 991T – Tactical Index Cards, Pack of 100, Tan, 3″ x 5″ 6 oz.	**49427**	**$10.95**

Rite in the Rain® Geology Field Book Cover
4585

This Cordura® Cover fits the 540F Geology Field Book and features pockets to hold an acid bottle, pens, pencils, and a scale. It also has a rugged buckle closure and belt clips that easily attach to a waistband.

Geology Field Book Cover 5 oz.	**49198**	**$25.75**

DESKTOP. TABLET. MOBILE.
THE NEW
FORESTRY-SUPPLIERS.COM

New! Rite in the Rain® No. 99 Mechanical Pencil
4946

Tough and reliable! This mechanical pencil's tip is designed to prevent the lead from breaking, wobbling, twisting, or falling out in the field. The strong resin barrel fits comfortably in your hand when you're writing. Seven 1.1 mm leads and two extra erasers included. **Length:** 5-3/4″. **Weight:** .05 oz.

No. BK99 Black Pencil with Black Lead	1 oz.	**49520**	**$10.95**
No. RD99 Red Pencil with Red Lead	1 oz.	**49521**	**$10.95**
No. YE99 Yellow Pencil with Black Lead	1 oz.	**49522**	**$10.95**
No. 99BR Black Lead Refill, Pack of 12	1 oz.	**49523**	**$6.50**
		12+	**$5.95**
No. 99RR Red Lead Refill, Pack of 12	1 oz.	**49524**	**$6.50**
		12+	**$5.95**
No. 99ER Replacement Erasers, Pack of 3	1 oz.	**49525**	**$6.50**
		12+	**$5.95**

Rite in the Rain® Field-Flex Notebooks with Universal Pattern
7093

Rite in the Rain paper sheds water to protect important notes. Softbound Field-Flex cover is as tough as hardbound books, yet flexible.

Field-Flex Pocket, Yellow, No. 374-M, 3-1/2″ x 5″, 56 Leaves	3 oz.	**49364**	**$4.85**
		12+	**$4.25**
New! Field-Flex Pocket, Black Cover and Dark Gray-Tinted Pages, No. 754, 3-1/2″ x 5″, 56 Leaves	2 oz.	**49501**	**$4.85**
		12+	**$4.25**
Field-Flex Bound Field Book, Yellow, No. 374, 4-5/8″ x 7-1/4″, 64 Leaves	7 oz.	**49367**	**$14.95**
		12+	**$13.95**
Field-Flex Maxi, Yellow, No. 374-MX, 8-1/2″ x 11″, 64 Leaves	1 lb.	**49363**	**$18.95**

4-5/8″ x 7-1/4″, 80 Leaves – The tough Field-Flex cover withstands the rigors of battle while the convenient size fits comfortably in a pocket. Pages are printed on 4-5/8″ x 7-1/4″ non-glare 32# Rite in the Rain All-Weather Paper. Each sheet is perforated for easy removal. The Universal pattern is ideal for notes and scaled drawings. Also contains 16 pages of tactical reference material, including: Sector sketch preparation, unit symbol charts, mission graphics, call for fire procedure and much more. 160 pages (80 leaves).

Field-Flex Bound Field Book, Green Cover and Pages, No. 980, 4-5/8″ x 7-1/4″, 80 Leaves	8 oz.	**49418**	**$15.95**
Field-Flex Bound Field Book, Tan Cover and Pages, No. 980T, 4-5/8″ x 7-1/4″, 80 Leaves	8 oz.	**49419**	**$15.95**

Rite in the Rain® Tally Book
7709

This standard-sized tally book is great for travel anywhere! Filled with 70 leaves printed with Tally Book page pattern. Perfect binding with Field Flex yellow cover. 3-1/2″ x 8″.

Rite-in-the-Rain No. 324, Tally Book	5 oz.	**53612**	**$7.95**
		12+	**$7.50**

Rite in the Rain® Field Books with Reference
3274

Rite in the Rain® Environmental Field Books with Reference

Environmental field books meet EPA requirements for legally defensible field books and include helpful reference information such as unified soil classification systems, sampling guidelines for liquids and solids, volumes of water in casings and holes, common field data error codes, and measurement conversions. Handy page headings also allow you to keep notes of a job's date, field team, weather conditions and task. Choose pocket-sized or regular-sized books. Pocket-size books have a hardbound cloth cover; regular-size books are available with polyethylene or hardbound cloth cover.

No. 550 Field – Regular sized field book, polyethylene cover, 78 Leaves, 4-3/4″ x 7-1/2″	10 oz.	**49349**	**$21.95**
		12+	**$21.25**
No. 550F Field – Regular sized field book, hardbound cloth cover, 78 Leaves, 4-3/4″ x 7-1/2″	11 oz.	**49325**	**$21.95**
		12+	**$21.25**
No. 550-4F Field – Pocket sized field book, hardbound cloth cover, 38 Leaves, 4-1/4″ x 6-3/4″	5 oz.	**49311**	**$18.95**
		12+	**$17.25**

Rite in the Rain® Geology Field Book with Reference

This handy field book features abbreviations for field notes, grain-size scales, graphs for determining the size of sedimentary particles, comparison charts for estimating percentage composition, soil classification charts, metamorphic rock chart, geologic map symbols and measurement conversions. Page headings allow you to document each page with location, date and project/client. Hardbound cloth cover provides rugged durability.

No. 540F Field - Regular-sized field book, hardbound cloth cover, 78 Leaves, 4-3/4″ x 7-1/2″	11 oz.	**49217**	**$21.95**
		12+	**$21.25**

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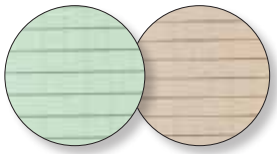


Rite in the Rain Tactical Memo Books
2957

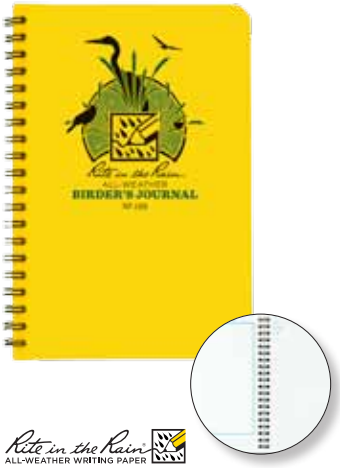
Bound with a Field-Flex cover, these small and flexible memo books fit into the ACU slanted breast and shoulder pocket. Useful reference material is printed on the back and inside covers. The book is printed on 20# Rite in the Rain.

No. 954 – Memo book, Green, 3-1/2″ x 5″, 56 Sheets	3 oz.	**49434**	**$4.95**
		12+	**$4.50**
No. 954T – Memo book, Tan, 3-1/2″ x 5″, 56 Sheets	3 oz.	**49436**	**$4.95**
No. 964 – Memo book, Green, 3-1/2″ x 6″, 60 Sheets	3 oz.	**49435**	**$5.95**
		12+	**$4.95**
No. 964T – Memo book, Tan, 3-1/2″ x 6″, 60 Sheets	3 oz.	**49437**	**$5.95**
		12+	**$5.10**

Rite in the Rain® Fire Incident Report Notebook
7521

Designed to assist first responders in collecting fire scene data and help determine whether the fire is suspected of being criminal. 50 sheets (100 pages) of a Fire Incident Report form. Top spiral binding. Polydura cover. 3″ x 5″.

No. 125, Fire Incident Report Notebook			
2 oz.		**49262**	**$4.45**
		12+	**$4.05**



Rite in the Rain® Birder's Field Book
5192

Avoid disorganized, water-logged field notes!

Designed to keep up with birding enthusiasts, from the backyard bird watcher to the active birder. Each book has a durable side spiral binding and polyethylene cover. Inside, the book has helpful reference guides and plenty of space for sketching and field notes. Measures 4-5/8″ x 7″. 32 Leaves.

No.195, Birder's Field Notebook,			
4 oz.		**61055**	**$8.95**
		12+	**$7.95**

Rite in the Rain® Pesticide Application Record Book
7933

Designed for keeping record of pesticide application. Information can be recorded for location/field name; crop, commodity or site; pesticide and EPA registration number; rate; size of area treated; date and time of application completed and time of re-entry; applicator's name and certificate number; and room for additional notes. 8-1/2″ x 11″ Maxi-Spiral Notebook. 42 Leaves.

No.1639, Pesticide Application Records Maxi-Spiral Notebook			
15 oz.		**49377**	**$18.50**
		12+	**$16.95**

Rite in the Rain® Incident Command System Unit Log Notebook
4093

This notebook contains 16 sets of two-paged ICS (Incident Command System) forms on Rite in the Rain all-weather paper. 4-5/8″ x 6-5/8″ spiral notebook.

No. 214, Incident Command System Unit Log Notebook			
4 oz.		**49260**	**$9.95**
		12+	**$8.95**

Rite in the Rain® Work Site Notebooks
2953

OSHA suggests proper preparation as the best prevention of workplace injuries. These notebooks help make job education and workplace analysis easier. Notebooks are 4″ x 6″, top spiral bound and contain 50, two-page forms (50 sheets).

Job Hazard Analysis Notebook, 4 X 6

The Job Hazard Analysis Notebook form contains spaces for a task list, hazard identification, controls and signatures.

No. 154 – Job Hazard Analysis Notebook			
3 oz.		**49429**	**$5.95**

Rite in the Rain® Job Briefing Notebook

This Job Briefing Notebook form walks you through the eight pre-job points and has a spot to collect signatures.

No. 151 – Job Briefing Notebook			
3 oz.		**49428**	**$5.95**

Rite in the Rain® Work Site Daily Log Book

This daily log book is an easy-to-use work site diary.

No. 157 – Daily Log book			
3 oz.		**49372**	**$5.95**

Rite in the Rain® LCES Shirt Pocket Notebook
8143

Designed especially for wildland firefighters, this 3″ x 5″ shirt pocket notebook features the LCES logo on the front cover and the "18" and "10" on the inside of the front cover. 50 sheets of universal pattern paper.

No. X-461, LCES Shirt Pocket Notebook			
2 oz.		**49261**	**$4.80**
		12+	**$3.95**

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Rite in the Rain® Sketch Book
2958

The Sketch Book for serious outdoor artists. A little rain won't prevent you from capturing every detail and nuance on the unique, pencil friendly Rite in the Rain surface. 8-1/2″ x 11″, 42 sheets.

No. 186 – Sketch Book 15 oz.		49444	$14.95

Rite in the Rain® All-Weather Calendar
2951

This 5″ x 7″ pocket calendar is made with a Polydura cover and side wire-o binding. Includes 12 generic monthly tabs (including 2 pages for notes per month), 4-year overview, and 4-year future planner.

No. 9263MT, All-Weather Calendar 3 oz.		49225	$19.95

Rite in the Rain® 2-Part Carbonless Copier Paper
2950

Copy or laser print your own multi-part forms! 26# Rite in the Rain White Paper on top protects the standard 20# Canary bottom sheet. Run both sheets through your laser printer or photocopier. Sold in packs of 100, 2-sheet sets (200 sheets total). **Page Size:** 8-1/2″ x 11″. **Page Pattern:** blank.

No. CB8511-2, 2-Part Carbonless Copier Paper 3 lbs.		49335	$43.80

Rite in the Rain ALL-WEATHER WRITING PAPER

Rite in the Rain® Copier Paper
5751

Copy your own all-weather forms, charts, and field worksheets!

Ideal for any field note-taking situation. Works in most copiers and laser printers. Not for ink-jet printers.

No. 8511-M – White, 8-1/2″ x 11″, Pack of 25	7 oz.	49246	$10.95
No. 8511 – White, 8-1/2″ x 11″, Pack of 200	3 lbs.	49247	$32.95
		8+	$31.50
No. 8517-M – White, 11″ x 17″, Pack of 25	1 lb.	49341	$21.75
No 8517 – White, 11″ x 17″, Pack of 200	6 lbs.	49312	$65.90
		4+	$63.25
No. 9511T – Tan, 8-1/2″ x11″, Pack of 200	3 lbs.	49350	$32.95
		8+	$31.50
No. 9517T – Tan, 11″ x 17″, Pack of 200	6 lbs.	49348	$65.90
		4+	$63.25
No. 9511 – Green, 8-1/2″ x 11″, Pack of 200	3 lbs.	49347	$32.95
		8+	$31.50
No. 9517 – Green, 11″ x 17″, Pack of 200	6 lbs.	49346	$65.90
		4+	$63.25

DuraCopy™ Waterproof Copier/Laser Printer Paper
2190

From the maker of Rite in the Rain® all-weather writing paper!

Ideal for use in the most extreme environments, this paper allows you to copy or print your own waterproof forms. The opaque paper is tear-proof, heat stable, moisture-repellent, and soil- and dust-resistant. Not for ink-jet printers.

No. 6517 – Pack of 100 Sheets, 11″ x 17″	4 lbs.	49373	$129.95
		4+	$123.50
No. 6517-M – Pack of 25 Sheets, 11″ x 17″	1 lb.	49378	$38.25
No. 6511 – Pack of 100 Sheets, 8-1/2″ x 11″	2 lbs.	53624	$64.95
		4+	$61.75
No. 6511-M – Pack of 25 Sheets, 8-1/2″ x 11″	1 lb.	53604	$18.50

Rite in the Rain® Grid Paper
5752

Rite in the Rain ledger. Printed one side, blue ink, 8-1/2″ x 11″ sheet size. Padded in 50's, three-hole punched for standard ring binders. 100 Sheets per pack.

No. 1110 – Cross Section 1/10″ grid		2 lbs.	49113	$15.95
			5+	$15.25
No. 1140 – Metric Cross Section 2 mm grid	M	2 lbs.	49116	$15.95
			5+	$15.25
No. 1150 – Metric Cross Section 5 mm grid	M	2 lbs.	49115	$15.95
			5+	$15.25

Alvin® Grid Paper
8634

These papers are 20# basis, acid-free, versatile layout bond. Smooth, opaque surface suitable for pencil or ink. Laser, copier and inkjet compatible. 8-1/2″ x 11″.

Quadrille Drawing Paper

Printed with a non-reproducible blue grid on one side with 10x10 squares per inch.

Quadrille Drawing Paper, 100 sheets	1 lb.	45181	$13.25
		10+	$11.95

Cross Section Drawing Paper

Printed with a non-reproducible blue grid on one side with 10x10 squares per inch and inch squares accentuated.

Cross-Section Drawing Paper, 50-Sheet Pad	11 oz.	45188	$7.75
		10+	$6.75

M Metric

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NALGENE®

Nalgene® Waterproof Polyolefin Notebook

5943

Takes the roughest field treatment without obliteration of notes. Pages can be washed, dried flat. Polyolefin paper can be used with copiers, markers, ball point pens, gel pens, technical markers, and laser and inkjet printers. The paper does not accept pencil marks. Printed both sides in 4 x 4 green grid to the inch, spiral bound, blue cover, 96 numbered pages, 9-1/4″ x 11-1/4″.

Field Notebook	1 lb.	**53615**	**$81.95**

DuraRite Loose Leaf Paper

2954

DuraRite is a synthetic paper created for use in extreme conditions. It is actually waterproof and can even be used under water. 4-5/8″ x 7″ Paper fits the following binders: Yellow - No. 200, No. 210; Green - No. 9200; and Tan - No. 9200T, No. 9210T. Pack of 100 Sheets.

No. 652 – Field Pattern	8 oz.	**49396**	**$20.25**
No. 692 – Journal Pattern	8 oz.	**49399**	**$20.25**
No. 612 – Level Pattern	8 oz.	**49410**	**$20.25**
No. 662 – Metric Field Pattern	8 oz.	**49411**	**$20.25**
No. 602 – Transit Pattern	7 oz.	**49412**	**$20.25**

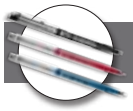
WeatherJet Waterproof Inkjet Paper

4074

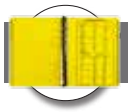
This premium synthetic, high resolution surface paper was designed for use with all Inkjet and Bubble Jet printers. When printed, the ink becomes waterproof on the waterproof, tear-resistant paper.

No. 7511M, WeatherJet Mini Pack, Pack of 25, 8-1/2″ x 11″	9 oz.	**53632**	**$22.50**
No. 7511, WeatherJet Waterproof Paper, Pack of 100, 8-1/2″ x 11″	2 lbs.	**53633**	**$82.95**
No. 7517M, WeatherJet Waterproof Copier Paper, Pack of 25, 11″ x 17″	1 lb.	**49450**	**$44.95**
No. 7517, WeatherJet Waterproof Copier Paper, Pack of 100, 11″ x 17″	4 lbs.	**49449**	**$164.95**

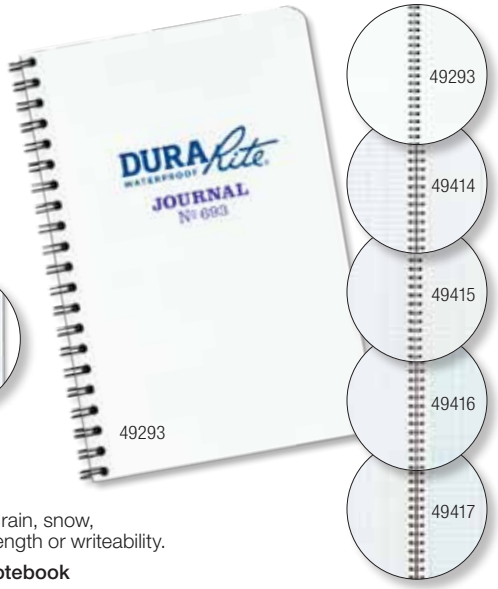
Note: Not for use in laser printers or copy machines.



Rite in the Rain® All-Weather Pens
page 555



Rite in the Rain® Ring Binders
page 555



DuraRite® Synthetic Notebooks

5749

Prevent wet, illegible field notes with these synthetic papers.

Designed specifically for writing field notes in extreme weather conditions and continuous exposure to rain, snow, or other wet conditions, these papers can withstand long periods of immersion without losing their strength or writeability.

DuraRite® Shirt Pocket Memo Book

3″ x 5″ White Polyethylene Cover.
Wire-O Bound top spiral. 50 Leaf (100 pages).

DuraRite Shirt Pocket Memo - No. 635	3 oz.	**49291**	**$6.35**
		12+	**$5.75**

Pocket Notebook

Convenient, 4″ x 6″ size fits in your pocket!
100 Universal Pattern pages (50 sheets).

Pocket Notebook, 4″ x 6″, No. 646	3 oz.	**49393**	**$7.25**
		12+	**$6.50**

DuraRite® Spiral Notebook

This Wire-O bound side spiral notebook features a polyethylene cover and is printed both sides with a journal pattern. 4-5/8″ x 7″. 32 Leaves (64 Pages).

No. 693 – Journal	3 oz.	**49293**	**$10.25**
		12+	**$9.25**
No. 653 – Field	3 oz.	**49414**	**$10.25**
		12+	**$9.25**
No. 613 – Level	3 oz.	**49415**	**$10.25**
		12+	**$9.25**
No. 663 – Metric Field	3 oz.	**49416**	**$10.25**
		12+	**$9.25**
No. 603 – Transit	3 oz.	**49417**	**$10.25**
		12+	**$9.25**

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Vinyl Roll Flagging
page 24

Stake-Pro Stake Drivers
7748

Drive stakes safely and efficiently. Transfers the impact from each hammer blow through the continuous steel shaft making stake driving faster and easier. The tool shaft slides securely over the top of each stake ensuring a greater degree of angle control and accuracy. **Caution:** Always use appropriate safety gear when driving stakes of any type.

1″x 1″Stake Driver	2 lbs.	**39541**	**$21.95**
1″x 2″Stake Driver	2 lbs.	**39542**	**$21.95**
2″x 2″Stake Driver	3 lbs.	**39544**	**$23.99**
2″x 4″Stake Driver	4 lbs.	**39543**	**$23.99**

Estwing

Estwing® 48 oz. Engineer's Hammer
8527

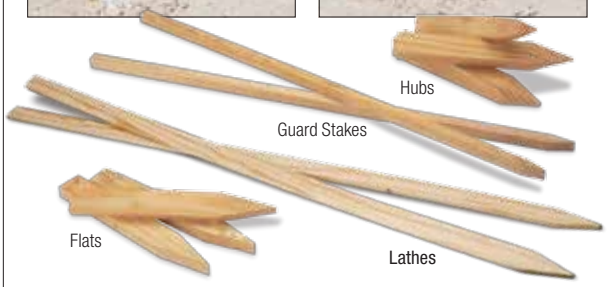
Bonded and molded Shock Reduction Grip® offers superior comfort and durability while also reducing the vibrations caused by impact. Head and handle forged in one piece. 48 oz. Head. 16″L.

Estwing 48 oz. Engineer's Hammer	4 lbs.	**67243**	**$32.25**

Jackson® Professional Tools Three-Pound Engineer Hammer
5786

A double-face, forged steel hammer head makes this tool perfect for heavy hammering, demolition work, and driving spikes or wedges. Three-pound head with 16″ hickory handle.

Jackson Three-Pound Engineer Hammer	4 lbs.	**67233**	**$16.50**
		4+	**$15.25**



GAD Stake
4306

Used for making a pilot hole in compact or frozen soils. Each is made of high grade tool steel. Rectangle-shaped stake measures 3/4″x 1-1/2″x 18″ and has a hardened steel tip.

GAD Stake	5 lbs.	**39524**	**$29.90**

Frost Pin
4306

Used for making a pilot hole in compact or frozen soils. Each is made of high grade tool steel. Round pin measures 1″x 19-1/2″. Features a 2-1/4″button top and hardened diamond point tip.

Frost Pin	4 lbs.	**39530**	**$22.75**
		6+	**$21.50**

Wood Survey Stakes
1129

Durable, long-lasting stakes are cut from Southern yellow pine. Points are saw-formed to ensure all sides are equal so stakes drive straight.

Note: Due to manufacturing tolerances, the dimensions of these items may not be exact.

Type	Bundle	Nominal Size	Weight	SN	Per Bundle	5+ Bundles
Flats	50	1″x 2″x 6″	6 lbs.	**39515**	**$12.25**	**$11.25**
	50	1″x 2″x 12″	13 lbs.	**39514**	**$12.50**	**$11.10**
	50	1″x 2″x 18″	20 lbs.	**39516**	**$16.75**	**$14.40**
	50	1″x 2″x 36″	40 lbs.	**39520**	**$31.25**	**$28.15**
	50	1″x 2″x 48″	54 lbs.	**39523**	**$39.95**	**$36.65**
Hubs	25	2″x 2″x 6″	4 lbs.	**39511**	**$11.75**	**$10.50**
	25	2″x 2″x 12″	11 lbs.	**39512**	**$11.50**	**$10.25**
	25	2″x 2″x 18″	18 lbs.	**39513**	**$15.25**	**$13.95**
Guard Stakes	50	1″x 1″x 36″	16 lbs.	**39517**	**$24.25**	**$21.95**
	50	1″x 1″x 48″	22 lbs.	**39519**	**$32.25**	**$29.95**
	50	1″x 1″x 58″	30 lbs.	**39518**	**$41.75**	**$39.25**
Lathes	50	3/8″x 2″x 18″	11 lbs.	**39536**	**$12.50**	**$10.95**
	50	3/8″x 2″x 48″	26 lbs.	**39535**	**$26.95**	**$24.95**

Plastake® Survey Stakes
5780

Lightweight stakes are made of tough, highly visible plastic in a variety of colors. Can be written on with waterproof felt tip pens. Drive easily and are reusable; more economical than wood. 18″x 2″dia. head.

Heavy-Duty Plastic Survey Stakes
5781

Tough PVC stakes are rustproof, rotproof, and shatterproof. Special design prevents shearing and walking off center. Drive straight in hard or spongy ground. 16″L x 2″dia. head.

Plastake® and Plastic Survey Stakes

	Weight	Red	Pink	Yellow	Blue	Orange	White	Each	100+	200+	500+
Plastake	2 oz.	**39502**	**39504**	**39533**	**39534**			**$2.75**	**$2.15**	**$1.85**	**$1.70**
Heavy-Duty Plastic	7 oz.					**39503**	**39501**	**$4.40**	**$3.60**	**$3.20**	**$3.00**

Note: For price break on quantities greater than 500, call TOLL-FREE 1-800-647-5368!

Stake Whiskers
1128

Identify surveyed points or construction locations of highways, roads, or buildings.

The 5-1/2″flexible plastic tops spring back if run over, eliminating the time and expense of re-staking. Fit all wood stakes. Bundle of 25.

Weight	Blue	Red	Pink	Yellow	Orange	Green	Each	20+	50+
5 oz.	**33775**	**33776**	**33780**	**33777**	**33778**	**33779**	**$3.45**	**$2.95**	**$2.85**

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Forestry Suppliers Cordura® Stake Bag
1123

Heavy-duty, water-resistant Cordura nylon bag is 18˝L x 8˝W x 12˝D. Adjustable shoulder strap. Outside pockets for hub tacks, pencils or miscellaneous items.

Cordura Stake Bag	15 oz.	39200	$46.75
		5+	$43.75

seco

SECO Heavy Duty Stake Bag
8207

Designed to be tough, this bag withstands all kinds of use and abuse. The main compartment is made of super-tough Rhinotek™ while the five outer pockets are 1000 denier Cordura®. Other features include a center divider, a hammer loop, an adjustable shoulder strap, and brass grommet drain holes at both ends of the bag. Holds 18-inch (45.72 cm) stakes or rebar. 26˝ x 7-1/2˝ x 12˝.

SECO Heavy Duty Stake Bag	2 lbs.	43434	$51.95

seco

SECO Plan Holder
4739

Hang this handy organizer on the back or front of any vehicle seat for storing job site materials! Features include slots that hold four 6˝ Diameter plans, a front pocket for accommodating a note pad, phone or other small items, and a strap that holds pens, pencils, markers and other tools. **Color:** Blue.

SECO Plan Holder	14 oz.	39201	$35.50

seco

SECO Heavy Duty Lath Carrier
4518

Holds up to 50 laths - plus, it can handle rebar, too! Made of 1000 denier Cordura and has a thick, reinforced bottom of leather and Rhinotek abrasive-resistant material. Exterior features include a hammer loop, paint can holder, marker pen slots, and a miscellaneous gear pocket. **Dimensions:** 9˝W x 38˝L.

SECO Heavy Duty Lath Carrier	2 lbs.	43433	$73.95

seco

SECO Lath Bag
7444

Heavy-duty construction with abrasion-resistant Rhinotek™ material around the bottom of the bag and 6 inches up the side. Features a sturdy, adjustable shoulder strap and hand loop to carry the load. Also has three 8 x 10-inch, pleated outside pockets for paint, markers, etc.

36˝ Lath Bag, Inside Dimensions: 8˝ x 33˝	2 lbs.	43432	$39.95
48˝ Lath Bag, Inside Dimensions: 8˝ x 45˝	2 lbs.	43435	$46.95

seco

SECO Monster Gear Bag
2962

This bag is big enough to carry tools, gear, and clothes! Features two interior pockets (14˝ x 12˝ x 2˝) with hook-and-loop closures, two front zippered pockets, and two side zippered pockets. Heavy-duty nylon webbing carrying straps. **Dimensions:** 30˝ x 14˝ x 20˝. **Weight:** 3.4 lbs.

SECO Monster Gear Bag	4 lbs.	43420	$124.25

Fiberglass Survey, Field & Utility Markers
5784

Ideal for identifying property boundaries, gas pipelines, telephone cables, valve boxes, manholes, right of way easements, meter locations, golf courses, etc. Weather-resistant, each marker is made of lightweight, continuous glass fiber reinforced composite which is extremely UV resistant and temperature stable. For easy installation, use the optional post driver (sold separately). Custom labels and colors can be special ordered. Call for details.

Marker	Dimensions	Color	X	Weight	SN	Each	20+	50+
Fiberglass Survey Marker	66˝L x 2-5/8˝W	Orange	X	2 lbs.	39220	$18.95	$15.95	$14.75
Fiberglass Wetland Marker	66˝L x 3-3/4˝W	Brown	X	3 lbs.	38852	$21.95	$18.95	$17.60
New! Fiberglass Caution Gas Pipeline Marker	66˝L x 3-15/16˝W	Yellow	X	3 lbs.	38853	$21.95	$18.95	$17.60
Fiberglass Caution Sewer Utility Marker	66˝L x 3-3/4˝W	Green	X	3 lbs.	38851	$21.95	$18.95	$17.60
Fiberglass Caution Water Utility Marker	66˝L x 3-3/4˝W	Blue	X	3 lbs.	38850	$21.95	$18.95	$17.60
Fiberglass Utility Marker	66˝L x 3-3/4˝W	Orange	X	3 lbs.	39221	$19.95	$16.85	$15.60
Fiberglass Utility Marker	66˝L x 3-3/4˝W	Green	X	3 lbs.	38847	$19.95	$16.85	$15.60
Fiberglass Utility Marker	66˝L x 3-3/4˝W	Blue	X	3 lbs.	38848	$19.95	$16.85	$15.60
Fiberglass Utility Marker	66˝L x 3-3/4˝W	Red	X	3 lbs.	38849	$19.95	$16.85	$15.60

Note: "Survey," "Wetland," "Caution Gas Pipeline," "Caution Sewer Pipeline," and "Caution Water Pipeline" Markers include label.

X Items 60˝ or more require an additional handling charge.

Post Driver
5785

Use for installing your fiberglass boundary and utility markers (sold separately). Just insert the marker into the driver with the pointed end exposed. Then, rotate the driver into installation position and drive the marker into the soil with a series of light taps until you reach the desired depth.

Post Driver	20 lbs.	39222	$175.95

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Chaining Pins (Steel Arrows)
5771

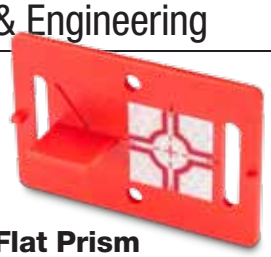
Hardened round steel, painted red and white. 7/32″ Dia., 14″L. Set of 11 pins.

Chaining Pins (Steel Arrows)		
2 lbs.	**39167**	**$21.50**
	4+	**$19.95**
Chaining Pin Carrier		
6 oz.	**39272**	**$13.75**
	4+	**$11.75**
Leather Quiver for Chaining Pins		
5 oz.	**39170**	**$21.50**
	4+	**$19.25**
SECO Chaining Pin Quiver		
3 oz.	**39275**	**$10.95**

Gammon Reel®
5756

Attaches to your plumb bob and provides you with instant rewind of your plumb bob string, up and down adjustment, and an accurate sighting target.

Gammon Reel with 6-1/2′ Red String		
2 oz.	**39350**	**$13.95**
	6+	**$12.95**
Gammon Reel with 12′ Orange String		
4 oz.	**39360**	**$16.95**
	6+	**$16.25**



Flat Prism Level Target
4673

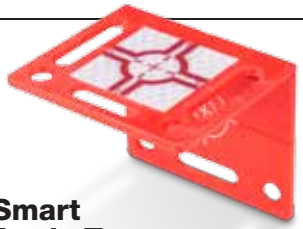
The combination target plate allows for quick positioning, angle and distance measurements with tachymeter and all common measuring devices. Temperature- and UV-resistant. Can be mounted even on difficult surfaces. **Range:** approx. 80 m (262 ft).

Model RS30R - Flat Prism Level Target with 30 X 30 mm Reflector		
1 oz.	**39559**	**$6.75**
	10+	**$6.25**

Flat Prism Smart Targets
4673

For quick positioning with tachymeter and all common measuring devices. Temperature- and UV-resistant. Can be mounted even on difficult surfaces. **Range:** approx. 100 m (328 ft).

Model RS60R - Flat Prism Target with 40 X 40 mm Reflector		
1 oz.	**39560**	**$7.95**
	10+	**$7.50**



Smart Angle Target
4673

Thanks to the 90° angle, this target enables measurements and monitoring to be carried out in difficult surveying locations or when there is a shortage of space. Temperature- and UV-resistant. **Range:** approx. 100 m (328 ft).

Model RS80R - Smart Angle Target with Two 40 X 40 mm Target Reflectors		
1 oz.	**39572**	**$18.75**
	10+	**$17.25**

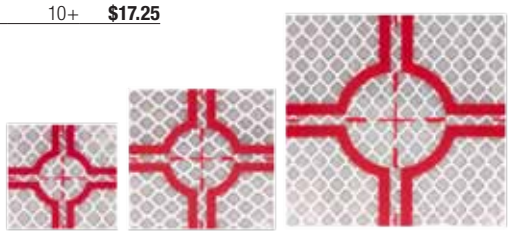
Mini Survey Target Adapter with Reflective Angle Targets
4673

When using these reflective angle targets, measurement and monitoring are possible from almost any angle at locations which are difficult to access. Roads no longer need to be closed or obstacles crossed as every measurement point can be checked from a distance of up to 200 m (range depends on the measurement equipment). **Range:** approx. 80 m (262 ft).

Model RSAK130 - Mini Survey Target Adapter with two 30 x 30 mm Reflective Angle Targets	1 oz.	**39555**	**$18.75**
		10+	**$17.25**

Smart Target Adhesive Reflectors
4673

Use these retro reflective survey targets for fast, accurate construction layout! Great for backsights, check shots, elevation references and monitoring situations, plus they save crew time, keep employees out of danger, and allow you to get better data.



Smart Target Adhesive Reflectors 30 X 30 mm

Model RSZ3 - Target reflectors with cross hair 30 x 30 mm. **Range:** approx. 80 m (262 ft). Pack of 10.

Model RSZ3 – 30 X 30 mm		
1 oz.	**39538**	**$26.25**
	4+	**$20.25**

Smart Target Adhesive Reflectors 40 X 40 mm

Model RSZ4 - Target reflectors with cross hair 40 x 40 mm. **Range:** approx. 100 m (328 ft). Pack of 10.

Model RSZ4 – 40 X 40 mm		
1 oz.	**39539**	**$31.75**
	4+	**$25.25**

Smart Target Adhesive Reflectors 60 X 60 mm

Model RSZ6 - Target reflectors with cross hair 60 x 60 mm. **Range:** approx. 120 m (393 ft). Pack of 4.

Model RSZ6 – 60 X 60 mm		
2 oz.	**39554**	**$22.95**
	4+	**$17.95**

The ranges are average values and will be greatly exceeded by the majority of current total stations, some of them need a minimum distance of 10 meters.

Plumb Bobs
5759

Machined from solid brass. Screw caps and steel points are fitted with standard threads.

Plumb Bob	10 oz.	12 oz.	14 oz.	16 oz.	18 oz.
Weight	11 oz.	14 oz.	1 lb.	1 lb.	1 lb.
SN	**43733**	**43734**	**43735**	**43736**	**43737**
$	**$16.75**	**$17.75**	**$21.95**	**$24.95**	**$22.75**

Plumb Bob Accessories

Replacement Cap	1 oz.	**43739**	**$1.95**
Replacement Point	1 oz.	**43741**	**$1.40**
Plumb Bob Cord, 25 yds.	3 oz.	**39576**	**$8.75**
		2+	**$7.75**
Nylon Mason Line, 500′	9 oz.	**83290**	**$5.95**
		24+	**$4.95**

Plumb Bob Sheath
5758

Can be used with all makes of plumb bobs. Heavy-duty quality leather.

For 6 to 12 oz. bobs	3 oz.	**43858**	**$7.50**
For 14 to 18 oz. bobs	3 oz.	**43859**	**$7.50**

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Mag Spike
8418

The most durable survey marker you can buy!

Made of premium steel, this survey marker is magnetized for easy detection. With a large center point and 1″ diameter head, the Mag Spike is ideal for control points and property corners. Box of 25.

3/8″ x 3″		
3 lbs.	**79293**	**$32.75**
	4+	**$31.25**
3/8″ x 4-1/2″		
3 lbs.	**79294**	**$39.95**
	4+	**$38.50**

Mag Hub
4304

Magnetized for easy detection and zinc plated to resist corrosion. Not for use in concrete or asphalt. Boxed in 30 lb. boxes. Available in 1/4″ x 6″, or 1/4″ x 8″. **Quantity:** Approximately 362 in 6″ box; 272 in 8″ box.

Mag Hub 6″ Nail		
31 lb.	**79319**	**$59.95**
	3+	**$56.75**
Mag Hub 8″ Nail		
31 lb.	**79320**	**$59.95**
	3+	**$56.75**

Cotton Gin Spike
7294

Hardened steel. Drive into a variety of surfaces including asphalt, concrete, stone, etc. 4-3/4″L, 1/2″ diameter at head and tapers down to 1/4″ diameter.

Cotton Gin Spike		
3 oz.	**79301**	**$0.90**
	20+	**$0.80**
	100+	**$0.70**

Tack Balls
5777

The safe and easy way to hold stake tacks. Made of durable sponge rubber. Ball is 2-1/4″ in diameter with leather carry strap. Packaged in zip lock poly bag.

Tack Balls		
3 oz.	**39196**	**$9.25**

Sokkia™ Stake Tacks
5776

Electrogalvanized, indented-head stake tacks with needle sharp point for easy starting. No. 14 size, 3/4″L. About 725 tacks per pound.

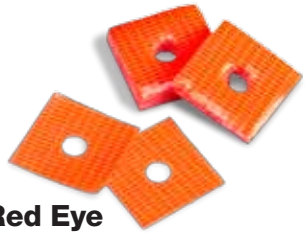
1 lb. Package		
1 lb.	**39197**	**$10.75**

Magnails
5778

Magnetized Survey Nails

Hardened masonry nails with zinc and clear chromate coating to resist corrosion. Magnetized for a two to four times greater detection with a metal locator. Features a large centerpoint and excellent elasticity which reduces breakage. Use for black top layout and establishing points on concrete. Box of 100.

5/32″ x 1″	15 oz.	**79306**	**$7.85**
		12+	**$7.35**
3/16″ x 1-1/4″	1 lb.	**79307**	**$10.95**
		12+	**$9.95**
1/4″ x 1-1/2″	3 lbs.	**79308**	**$14.95**
		12+	**$13.75**
1/4″ x 2″	3 lbs.	**79309**	**$17.75**
		12+	**$16.25**
1/4″ x 2-1/2″	4 lbs.	**79310**	**$21.75**
		6+	**$19.95**



Red Eye Nail Markers
5775

Made of fluorescent red/orange nylon fabric, markers measure 1″ square with 1/4″ center hole. Package of 70.

Red Eye Nail Markers		
1 oz.	**79330**	**$2.35**
	4+	**$1.95**

BenchTie
6843

An excellent vertical control point for surveying and construction work.

Recessed dimple on top provides a stable horizontal surface for a prism pole or stadia rod. Record information on the high-visibility, UV-resistant plastic tag to allow for a benchmark. Benchmarks and ties can be plotted on worksheets for quick and easy reference. Constructed of tough heat-treated steel with a zinc coating. Can be driven into telephone poles, trees, concrete (when pre-drilled with a 1/4″ bit), or any other vertical surface. Ideal for surveying work in areas where no permanent horizontal position exists to set a benchmark. **Tags:** 3″ x 5″. **BenchTie:** 5″ x 3/4″.

BenchTie, each	2 oz.	**79279**	**$3.60**
		50+	**$3.15**

Surveyor's Flat Shiners
5774

Round 2-1/4″ tins with center punch and crimped edges for indicating semi-permanent points with spikes or nails. Approximately 250 shiners in carton.

Surveyor's Flat Shiners		
3 lbs.	**39587**	**$34.50**

Painted Aluminum Location & Bearing Tree Posters
1121

Used to identify property corners.

Sturdy aluminum with holes at top and bottom for mounting. 4″ x 6″. Pack of 100.

Location Poster		
4 lbs.	**24979**	**$150.00**
Bearing Tree Poster		
4 lbs.	**24996**	**$150.00**

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1

1 Aluminum Surv-Kaps® for Rebar

5791

Recommended for applications where rebar boundary stakes are preferred.

These fireproof aluminum survey caps feature a patented tapered internal hole which accepts most irregular-shaped rebar ends and are available in three sizes: 1-1/2″ flat top for 5/8″ rebar, 1-1/2″ flat top for 1/2″ rebar, or 2″ flat top for 5/8″ rebar. The 2″ flat top model has a standard plastic insert.

1-1/2″ flat top for 5/8″ rebar	2 oz.	**39497**	**$3.35**
		50+	**$3.00**
		100+	**$2.45**
1-1/2″ flat top for 1/2″ rebar	2 oz.	**39498**	**$3.35**
		50+	**$3.00**
		100+	**$2.45**
2″ flat top for 5/8″ rebar	4 oz.	**39499**	**$5.30**
		50+	**$4.35**
		100+	**$3.95**

2

2 Permamark Plastic Surveyors' Markers

5790

A simple, effective way to mark and identify your location points.

Each plastic marker acts like a cap and fits inside metal pipe or over steel rebar. Each marker can be heat-branded with your RCE, LS, and PE number as well as short names or abbreviations at NO EXTRA COST. Spaces available: 1″ plug, two lines with 13 spaces each; 3/4″ plug, two lines with nine spaces each; 1/2″ plug, two lines with seven spaces each. Specify information to be heat-branded when ordering. Sold in pack of 200. Available in red, yellow, or orange. Please specify color when ordering.

Size: 1″ plug; Fits: inside 1″ I.D. pipe over 5/8″ rebar	2 lbs.	**39496**	**$77.50**
Size: 3/4″ plug; Fits: inside 3/4″ I.D. pipe over 1/2″ rebar	2 lbs.	**39495**	**$73.50**
Size: 1/2″ plug; Fits: inside 1/2″ I.D. pipe over 3/8″ rebar	2 lbs.	**39494**	**$70.50**

3

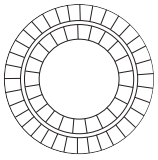
3 Aluminum Dome Top Concrete/ Bench Markers

5788

Ideal for highways, street intersections, cemeteries, rocks, pipe, dams, and bridges.

Cold-forged, durable markers will not crack, chip, or break. Machine-forged serrated edge fastens permanently in concrete. Can be ordered pre-stamped, or stamp them yourself with steel dies (sold separately).

Pre-Stamping Instructions



- 2″ Dia. top has two rows (35 spaces outside/22 spaces inside, 1/8″ characters).
- 3-1/4″ Dia. top has three rows (41 spaces outside/30 spaces middle/35 spaces inside, 3/16″ characters outside and middle row, 1/8″ inside).

Top Diameter	Stem Diameter	Stem L	Pre Stamped Minimum	Wt.	SN	Each	25+	50+	100+
2″	5/8″	2-1/2″	25	2 oz.	**39218**	**$3.60**	**$3.20**	**$2.95**	**$2.80**
3-1/4″	5/8″	2-1/2″	25	5 oz.	**39219**	**$10.20**	**$9.90**		

Pre-stamped markers must be ordered in quantities of 25 per design and cannot be returned. Specify letters or numbers facing in or facing out. Pricing depends on the order. Call for details.

4

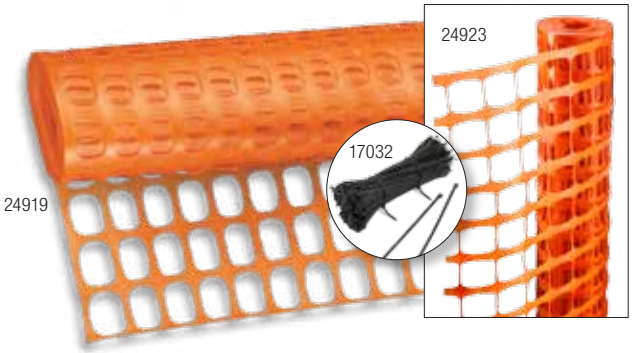
4 Hand Stamp Steel Dies

5789

Steel survey markers may be numbered or lettered by hand with Steel Dies. 1/4″ Short face Gothic type. All sets supplied in wooden box.

Number Set, 1 through 0	1 lb.	**57490**	**$24.95**
Combination Letter and Number Set	4 lbs.	**57522**	**$90.25**

5



5 Hi-Vis Barrier Fencing

1627

Block off construction sites or dangerous areas!

High visibility temporary barrier fencing is UV stabilized to prevent fading. Resists corrosion and rot. Reusable. Hi-Vis Orange.

4′ x 100′ 12 lb. Non-Stretched Fence, 1.75″ x 1.75″ Holes	12 lbs.	**24919**	**$29.95**
4′ x 100′ 8 lb. Stretched Fence, 2″ x 2.75″ Holes	9 lbs.	**24923**	**$31.95**
		10+	**$26.50**
8″ Plastic Cable Ties, Bag of 1,000	3 lbs.	**17032**	**$29.25**
		3+	**$26.50**

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Spotmarker
page 37

Schonstedt® GA-52Cx Heliflux® Magnetic Locator

5816

7 Manufacturer's Warranty 7 Year

Responds only to magnetic fields.

This high-quality locator accurately pinpoints the location of iron survey boundary markers, P-K nails, manhole covers, valve boxes, and similar ferrous objects without being misled by non-ferrous objects such as brass, aluminum, copper, water, and ice. It has a broad dynamic range with five individual sensitivity settings (six settings if counting OFF as a setting) to provide for improved pinpointing accuracy. Its most sensitive setting is probably beyond the normal needs of the land surveyor, but can be used effectively by those seeking to locate horizontal cast iron water and gas lines. Larger objects can be detected at lower depths. A 4″ diameter cast iron pipe can be detected at 8′ below the surface, 3/4″ x 18″ iron pipe markers at 7′, iron valves at 8′, and well casings at 15′! The GA-52Cx even detects magnets in plastic closures, water and gas lines made of iron, and P-K nails on resurfaced roads. A built-in piezoelectric speaker provides clear, sharp signals to alert you to ferrous objects, while the modular case, no-roll construction, high performance components, and weather protected controls contribute to better handling, more reliability, and greater sensitivity. Carrying case included. Seven year warranty.

How the GA-52Cx works...

The GA-52Cx locator has two magnetic field sensors spaced 20″ apart. A signal, or signal change, is produced in the loudspeaker when the magnetic field at one sensor is stronger than the magnetic field at the other sensor.

Operating temperature: -13°F to +140°F. **Output approx.:** 40Hz idle tone in speaker. Tone frequency increases or decreases with gradient-field intensity. **Battery life:** 40 hours, 2 9V batteries included. **Overall length:** 42-1/4″. **Waterproof length:** 34-1/2″. **Weight:** 2.5 lbs.

Schonstedt GA-52Cx Heliflux Magnetic Locator with Carrying Case, List Price: $917.00	7 lbs.	**43173**	**$768.00**
Optional Headset	10 oz.	**43118**	**$50.00**

Schonstedt® GA-72Cd Magnetic Locator

5817

5 Manufacturer's Warranty 5 Year

Differentiates the types of magnetic objects buried beneath pavement, soil, or shallow water.

Combines an audio tone indicator with digital and bar graph LCD indications of signal strength and polarity, allowing you to determine if what's being detected by the locator is a minute 1/4″ P-K nail or a huge 55-gallon steel drum. As you move along a buried object, the two indicators work together to inform you about the object's size, if it's vertical or horizontal, and even if it's a magnetically detectable nonmetallic duct, cable, or pipe. The locator operates for up to 30 hours on two 9V batteries, detects larger objects (i.e. well casings) as deep as 15 ft. below the surface, and ignores nonferrous metals such as aluminum, brass, and copper. Features include a three-in-one knob which turns the locator on/off, adjusts the sensitivity, and tests the battery; two selectable audio modes (continuous tone or tone only when over a target); and a rugged, all-weather housing with 21″ waterproof tip. Five year warranty.

Operating temperature: -13°F to +140°F. **Output:** audio and visual. **Display:** LCD. **Battery life:** 30 hours (intermittent use); two 9V batteries (included). **Overall length:** 34-1/2″. **Waterproof length:** 21″. **Weight:** approx. 2.5 lbs.

Schonstedt GA-72Cd Magnetic Locator with Carrying Case, List Price: $1041.00	7 lbs.	**43166**	**$947.00**
Optional Headset	10 oz.	**43118**	**$50.00**

Schonstedt® GA-92XTd Magnetic Locator

2671

7 Manufacturer's Warranty 7 Year

Extendable for greater sensitivity – retracts for easy carrying!

Accurate, reliable, and incredibly portable, the GA-92XTd magnetic locator quickly and easily detects the magnetic fields of ferromagnetic objects up to 16 feet underground. Detect the magnetic fields of property markers, manholes, septic tanks, well casings, valve boxes, cast iron pipes, steel drums, and unexploded ordnance. Designed for easy one-hand operation, the unit allows for fingertip control of volume and sensitivity and operates in both retracted and extended modes. A carrying holster provides a convenient way to keep the magnetic locator within reach at the job site. The GA-92XTd provides audio indication of ferrous objects as well as a battery level meter and a relative gain strength indicator. The GA-92XTd also features a display unit which shows signal polarity and a bar graph representing relative signal strength. This simultaneous use of audio and visual responses provides information to help in pinpointing a target and determining its orientation. Carrying case included. Seven year warranty.

Operating temperature: -13°F to 140°F. **Output:** Audio, Signal increases in frequency with gradient field intensity. Idle frequency = 10 Hz. Visual, Expanding bar graphs indicate polarity (positive or negative) and relative signal strength. **Power:** one 9V battery, included (lithium recommended, but not required). **Battery life:** 24 hours (intermittent usage). **Overall length:** Unit extended, 26″; Unit collapsed, 15.5″. **Water resistant length:** 11.5″ (when extended). **Weight:** approx. 2.4 lbs.

Model GA-92XTd, List Price: $985.00	6 lbs.	**43135**	**$899.00**
Headset for Magnetic Locator	2 oz.	**43117**	**$36.00**

Marking Paint
page 37

Wood Survey Stakes
pages 23 and 560

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FISHER

Fisher TW-82 Digital Line Tracer

7920

Manufacturer's Warranty 2 Year

An active locating line tracer, the TW-82 operates on a single frequency and features full time continuous readouts, one button receiver operation, and a lightweight, ergonomic design. Ultra fast response time plus a powerful inductive transmitter also provide accurate, repeatable readings. IP65 Compliant construction stands up to water jets, is impact-resistant and weatherproof. Includes a Transmitter, Receiver, ground-rod assembly, carrying case (soft or optional hard case) and an operator's manual. Two-year limited warranty from the manufacturer.

Transmitter Specifications: Operating Frequency: 82.175 kHz. **Output Power:** Normal setting, 0.25 watt; High setting, 1.0 watt. **Conductive Tracing:** 2 to 3,000 ohms normal power - 6dB. **Magnetic Strength:** 2 to 8,000 ohms high power - 6dB. **Inductive Tracing:** 15Vm2, normal power. **Magnetic Strength:** 25 Vm2, high power. **Battery Type:** 4 D-Cell Batteries (included). **Battery Life:** 160 hours in normal power mode. **Weight, with batteries:** 3.78 lbs. **Receiver Specifications: Operating Frequency:** 82.175 kHz. **Left/Right Guidance:** Audible and visual. **Azimuth Indicator:** Audible and visual. **Over-Target Indicator:** Visual. **Battery Status:** Visual. **Signal Strength Indicator:** Numeric display and audible.**Signal Current Measurement:** Numeric display, automatic. **Depth Measurement:** Numeric display, automatic. **Battery Type:** 2 D-Cell Batteries (included). **Battery Life:** 40 hours. **Weight, with batteries:** 3.60 lbs. **Environmental Specifications: Ingress Protection Rating:** IP65. **Operating Temperature Range:** -4°F to 140°F (-20°C to 60°C). **Relative Humidity:** 0 to 95% noncondensing.

Fisher TW-82 Digital Line Tracer	24 lbs.	**43181**	**$1995.00**

Fisher® TW-6 Pipe and Cable Locator

5812

Can find a 55-gallon drum up to 10´ deep or a 3/4˝ pipe up to 6´ deep!

Easy adjusting sensitivity control will rotate up or down in the normal or high range. Also has an easy-to-use, on-board battery tester. Conductive mode is used by plugging in the ground plate assembly or coupling clamp. A voltage controlled oscillator makes sensing a target easy and precise, often without referring to meter indications. Batteries included.

How it works...

Inductive locating –

A one-man operation used with accessory handle for location of discrete objects – the preferred method of locating unknown or lost conductors, the end of a pipe, or the lateral or drop line from a main or cable. Locates manholes, valve boxes, pedestals, junction boxes, vaults, metal reinforced septic tanks, cable, pipe, conductive warning tape, short stubs, laterals, droplines, dead ends, T's, L's, direct buried splices with closed circuit loop of wire 18˝ diameter, and plastic pedestals with loop of wire.

Inductive tracing –

A one-man operation used without handle for tracing underground service when a starting point is known. Two-man operation is advisable when the starting point is unknown and the course of the service must be established. Locates pipes, cables, mains, laterals, drop lines, dead ends, bends, T's, L's, and conductive warning tape.

Conductive tracing –

A one-man operation used without handle for tracing an individual conductor or for use when other conductors or interfering metal objects are nearby. This method may also be used to trace non-metallic pipes by connecting to a tracing wire or to a snake or fish tape fed into these services. Locates pipes, cables, mains, laterals, drop lines, dead ends, bends, T's, L's, sewers with snake, plastic duct with snake, and plastic pipe with tracing wire.

Model TW-6 without handle	7 lbs.	**43171**	**$753.00**
Accessory Handle with Strap and Handle Bag	3 lbs.	**43176**	**$145.00**
Accessory Tracer Probe with Coil Cord	2 lbs.	**43161**	**$230.00**
Molded Plastic Carrying Case	5 lbs.	**43136**	**$130.00**
Optional Headphones	14 oz.	**43180**	**$40.00**
AA cell Alkaline Batteries, pack of 4	7 oz.	**02352**	**$3.25**

	Operating Frequency	Batteries	Weight	Sensitivity		Signal to Noise Ratio	Headset Impedance	Dimensions
				Normal	High			
Transmitter	81.92 KHz ±005%	8 AA	2 lbs.	N/A	N/A	N/A	N/A	11˝x 9˝x 3˝
Receiver	81.92 KHz ±.005%	8 AA	3 lbs.	400uV typical	8uV typical	110dB	600 ohms	11˝x 9˝x 3˝

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FISHER M-SCOPE

Fisher® Models M-66 and M-97 Valve and Box Locators

5820

With Ground Effect Rejection

These locators are ideal for locating aluminum, brass, copper, iron, lead, nickel, tin or other metallic survey markers, water or gas meters, conduit, and manholes. Both models can sense manholes up to 42″ deep and valve boxes up to 18″ deep. M-97 can sense 3″ aluminum and brass markers up to 18″ deep. M-97 with 11″ loop can be used to scan logs for nails, spikes, and fence wire. The M-66 has a lightweight plastic housing for ease of use. The M-97 features an ergonomic handle design that provides added comfort and easy access to the control panel. The handle's design allows you to collapse the detector without disassembly for easy storage in the optional carrying case.

Operating environment: -4°F to +120°F with alkaline batteries. Search loop immersible in water. **Operating frequency of loop:** 4.5 kHz. **Sensitivity:** 0.2mV RMS for full scale. **Output indication:** meter, 1 milliamp, 0-100 linear scale. Speaker, 16 ohm impedance. Headset, 8 ohm impedance (optional, M-97 only). Audio frequency 450 kHz. **Power supply:** Two 9V batteries. **Battery life:** 15 to 25 hours. **Length:** M-66, 28″ collapsed, 48″ extended; M-97, 38″ collapsed, 50″ extended. **Weight:** M-66, 4.25 lbs.; M-97 with 8″ Search Loop, 3.9 lbs.; M-97 with 11″ Search Loop, 3.3 lbs.

Fisher M-66 with 8″ Search Loop	7 lbs.	**43167**	**$536.00**
Fisher M-97 with 8″ Search Loop	6 lbs.	**43380**	**$604.00**
Fisher M-97 with 11″ Search Loop	6 lbs.	**43381**	**$625.00**
Optional Headphones	14 oz.	**43180**	**$40.00**
Hard Carrying Case	8 lbs.	**43139**	**$145.00**
9V Alkaline Battery, single	3 oz.	**02179**	**$3.20**

FISHER M-SCOPE

Fisher® Model F2 Metal Detector

8711

This lightweight, economical metal detector provides a fast, sensitive target response. The 4-tone audio identification signals include a Low tone for ferrous objects (I.e. - iron and steel), a High tone for large brass objects, a Low-Mid tone for nickels and smaller gold items, and a Medium tone for small brass objects. Other features include an 8-segment visual target indentification, a 2-digit numeric target value, one-touch pinpoint with numeric depth readout, a coin depth indicator in motion mode, and a notch system for accepting or rejecting target categories. 8″ Concentric searchcoil. Ergonomic S-handle design. Includes two 9-volt alkaline batteries.

Search Loop: 8″. **Operating Environment:** -4°F to 120°F. **Power:** two 9V Batteries. **Battery Life:** 40 to 50 hours. **Length:** Collapsed, 44″; Extended, 53″. **Weight:** 2.6 lbs.

Fisher Model F2 Metal Detector	4 lbs.	**43155**	**$249.00**
Optional Headphones	14 oz.	**43180**	**$40.00**
Hard Carrying Case	8 lbs.	**43139**	**$145.00**
9V Alkaline Battery, single	3 oz.	**02179**	**$3.20**

P-4000 Metal Detector for Logs
page 97

FISHER M-SCOPE

Fisher® Model FX-3

5818

A precision state-of-the art instrument designed to locate survey markers, pipes, valves, well casings, septic tanks, and other ferromagnetic objects.

Also used by relic and treasure hunters to seek out buried objects far beyond the reach of ordinary metal detectors. Locates 1/2″ pipe up to 3′ deep. The FX-3 is similar to other magnetic locators. It has two sensors which respond only to the magnetic field of ferromagnetic objects (iron and steel). **It also has two very significant differences:** the FX-3 is a "motion" detector. It responds only when it, or the target, is in motion. The FX-3 "nulls" over targets. As a target is approached, the output increases in volume and pitch then momentarily disappears as it passes over the target and picks up again beyond the target. Rugged, lightweight and economical the FX-3 features simple, one-knob operation, automatic battery check, built-in speaker, waterproof probe, recessed control panel, and advanced solid state electronics. 9V Battery and hard carrying case included.

Operating temperature: 0°F to 122°F. **Overall length:** 42-1/2″. **Waterproof length:** 36″. **Output indication:** audio, 2-1/4″ diameter speaker or through headphone jack. **Battery:** one 9V. **Battery life:** 40 hours, carbon zinc. **Intermittent operation:** 60 hours, alkaline. **Weight:** 2-1/2 lbs. Includes carrying case.

Fisher Model FX-3, List Price: $545.00	7 lbs.	**43187**	**$559.00**
Optional Headphones	14 oz.	**43180**	**$40.00**
9V Alkaline Battery, single	3 oz.	**02179**	**$3.20**

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ChrisNik HoundDog Magnetic Locator
7660

The HoundDog is specially designed to locate hard-to-find survey markers under fences and around metal buildings. Using Fence Ignoring Technology, this magnetic locator can locate the positive (+) polarity at the top of ferrous metal objects (such as buried magnails, rebar, or other ferrous survey markers) and ignore negative (-) polarity found at the bottom (such as the bottom of chain link fences). Negative polarity is indicated by a green light and a low, steady audio tone. When positive polarity is detected, a red indicator light is activated and the normal locator audio tone is emitted. The HoundDog also features a Normal Locator Mode that detects metal objects (positive or negative polarity) and indicates the presence of either with the same normal locator audio tone and a red light. Storage pouch included.

ChrisNik HoundDog Magnetic Locator
3 lbs. **43175** **$729.95** **$660.00**

Magna-Trak 101

Manufacturer's Warranty 5 Year

Magna-Trak 102

Magna-Trak 200

Manufacturer's Warranty 7 Year

CST/berger

CST Magna-Trak™ Series Magnetic Locators
5819

Taking technology one step into the future, these Magna-Trak Magnetic Locators include a multitude of convenience features!

These magnetic locators are lightweight in design with an easy-grip handle, an LCD visual display (Models 100, 102, 200, and 202), and/or audio tone, hard rubber tips, water resistant cases, easy battery access, and they're backed by a manufacturer's warranty (100 Series, five years; 200 Series, seven years). Detects items up to 15′ deep, depending on the mass of the object. Five models to choose from.

Magna-Trak 100™

The Magna-Trak 100's LCD indicator offers a digital and bar graph display, in addition to a standard audio tone, to precisely locate buried ferromagnetic objects, especially in noisy, congested areas. Simple, push-button operation turns the magnetic locator on/off while two control knobs allow you to adjust the sensitivity and volume. Padded Cordura® case included. **Overall length:** 40″.

CST Magna-Trak 100,
List Price: $705.00 5 lbs. **43119** **$580.95**

Magna-Trak 101™

The Magna-Trak 101 is an economical version of the Model 100, providing you with the same excellent field performance with only an audio tone (does not feature the LCD and membrane switch action). The Model 101 features quick action, two panel control knob operation to adjust sensitivity and volume. Padded Cordura® case included. **Overall length:** 42″.

CST Magna-Trak 101,
List Price: $655.00 5 lbs. **43141** **$548.95**

Magna-Trak 102™

The Magna-Trak 102 provides the same basic performance as the Magna-Trak 100 but adds greater flexibility with the added push-button "erase" and power line indicator features. The "erase" button comes in handy when a magnetic disturbance, such as a metal fence, is confronted. Just press the "erase" button and the disturbance is erased for continued searching without interference. The power line indicator feature visually indicates on the LCD panel that a power line is present. Padded Cordura® case included. **Overall length:** 42″.

CST Magna-Trak 102,
List Price: $785.00 5 lbs. **43143** **$655.95**

Magna-Trak 200™

Designed for convenient one-handed operation, volume and sensitivity can be controlled with the same hand. The locator's membrane switch pad is sealed for protection from dust and moisture. The large LCD display features a segmented battery level indicator and a power line indicator which alerts you when a power line is detected. A quick change battery compartment allows for fast replacement of batteries. Padded Cordura® case included. **Overall length:** 42-3/4″.

CST Magna-Trak 200,
List Price: $749.00 3 lbs. **43142** **$608.95**

Magna-Trak 202™

In addition to the features of the Magna-Trak 200, the Magna-Trak 202 also offers an erase function which allows you to block out interference from nearby magnetic disturbances such as fences. Padded Cordura® case included. **Overall length:** 42-3/4″.

CST Magna-Trak 202,
List Price: $815.00 5 lbs. **43144** **$659.95**

Caution: The power line indicator feature is an aid only and is not intended for locating buried power lines.

CST Magna-Trak Magnetic Locators Specifications

	Magna-Trak 100	Magna-Trak 101	Magna-Trak 102	Magna-Trak 200	Magna-Trak 202
Operating Temp	-20°F to +120°F	0°F to 120°F	0°F to 120°F	0°F to 120°F	0°F to 120°F
Overall Length	40″	42″	42″	42-3/4″	42-3/4″
Output Indication	audio and visual	audio	audio and visual	audio and visual	audio and visual
Battery	6 AA (included)	6 AA (included)	6 AA (included)	6 AA (included)	6 AA (included)
Operation	100 hrs. (intermittent)	100 hrs. (intermittent)	100 hrs. (intermittent)	100 hrs. (intermittent)	100 hrs. (intermittent)
Carrying Case	Padded Cordura® case included	Padded Cordura® case included	Padded Cordura® case included	Padded Cordura® case included	Padded Cordura® case included

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Greenlee® Wire and Valve Locator
8699

1 Manufacturer's Warranty 1 Year

Quickly and accurately track buried irrigation system wiring and valves with this precision instrument. Locate wire paths, buried valve solenoids, wire breaks, and more. A high power transmitter allows for extended long range locating and use on higher resistance wire paths. Adjustable transmit power allows you to select the best signal for maximum performance. A lightweight, long-nose receiver wand lets you move quickly and locate long wire paths. The receiver provides both audible and visual indications of signal strength. To receive audible signals, use either the rugged headphones which block out ambient noise or the speaker.

Includes transmitter, receiver, headphones, ground stake, carry case, and complete instructions. One year limited warranty from the manufacturer.

Transmitter Frequency: 1748 Hz. **Transmitter Power:** 750 Vpp, 285 Vrms. **Automatic Shut-Off:** Transmitter, turn-off bumper; Receiver, 90 minutes. **Power:** Transmitter, 8 D cell batteries (included); Receiver, 1 9V battery (included). **Battery Life:** Transmitter, 50 hours nominal; Receiver, 100 hours nominal. **Case Dimensions:** 33.5″x 8.25″x 3.75″.

Greenlee Wire and Valve Locator	11 lbs.	**43186**	**$680.25**

Forestry Suppliers Telescopic Inspection Mirror
5648

Ideal for inspecting hard to reach or dangerous places.

Inspect bird nests, chimneys, cavities, manholes, drains, gutters, etc. with this telescoping mirror! 6′ Heavy-duty, fiberglass pole telescopes to 17-1/2′. Detachable 5-1/2″x 7-1/2″ mirror provides easy viewing. In low light situations, slide a miniature flashlight (optional) into the light bracket which comes standard on the head of the unit.

Forestry Suppliers Telescopic Inspection Mirror	5 lbs.	**81063**	**$99.95**
Mini Mag-Lite	7 oz.	**02367**	**$13.75**

Manhole Cover Pick
4307

Use for lifting and removing steel manhole covers. Made of 5/8″ hex high grade tool steel. Measuring 32″L, it has a hardened steel diamond point.

Manhole Cover Pick	4 lbs.	**43210**	**$28.25**

Marking Stick
1217

Use with any inverted tip marking paint. Lets you stand up straight as you mark the ground. 32″ Long, lightweight sturdy construction. Contoured handle for easy grip with built-in trigger.

Marking Stick 2 lbs.		**57556**	**$26.95**
		3+	**$24.50**

AERVOE®

Aervoe® Invert-A-Cap™ Lead-Free Inverted Tip Marking Paint
1226

17 fl. oz.

Operates in an inverted position. Lead-free paint for marking wood, concrete, asphalt, brick and gravel. Meets OSHA requirements. **Operating Temperature:** 50°F to 90°F. Find entire selection on page 37.

Blue		**57545**	
Green		**57546**	
Yellow		**57544**	
Orange		**57547**	
Red		**57543**	
White		**57560**	
Fluorescent Red		**57548**	
Pink		**57551**	
Fluorescent Orange		**57549**	
1 lb.	Ⓐ		**$5.15**
		12+	**$4.10**
		48+	**$3.65**

Ⓐ Extra Charge if Shipped by Air. See Shipping Information for details.

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MOTOROLA

Motorola® RM Series Two-Way Radios

4820

These radios combine crisp, clear audio quality with outstanding durability! Channel announcement confirms which channel you are communicating on, and the model featuring a display (29336) lets you assign each channel a user-defined name. In addition, NOAA Weather Alerts (available on 29328, 29330, and 29336) provide official weather warnings, watches, and forecasts 24 hours a day, 7 days a week. Advanced Voice Activation (VOX) offers hands-free operation, and a tri-color LED interface allows for easy identification of radio features and status. An antimicrobial coating helps prevent the growth of mold and germs on the surface of the radio. Meets Military Standard 810 C, D, E, F, and G as well as IP55 specs.

Coverage (varies based on terrain and conditions): VHF, up to 220,000 sq. ft. or 13 floors; UHF, up to 250,000 sq. ft. or 20 floors. **Frequencies:** 27 VHF or 89 UHF business-exclusive frequencies with 219 PL/DPL codes. **Battery:** Rechargeable Li-Ion battery. **Weight (with battery):** approx. 9 oz. **Dimensions (approx.):** 4.5″H x 2.2″W x 1.6″D.

VHF Radio, 2 Watts/8 Channels	R	1 lb.	**29328**	**$199.00**
UHF Radio, 2 Watts/4 Channels	R	1 lb.	**29329**	**$209.00**
UHF Radio, 2 Watts/8 Channels	R	1 lb.	**29330**	**$239.00**
UHF Radio with Display, 2 Watts/8 Channels	R	1 lb.	**29336**	**$249.00**
Remote Speaker Mic		8 oz.	**29315**	**$56.00**
Headset with Swivel Boom Mic		8 oz.	**29316**	**$65.00**
Six Unit Multi-Charger	R	3 lbs.	**29337**	**$284.00**
			2+	**$265.00**
Replacement Battery	R	4 oz.	**29338**	**$67.00**
			2+	**$61.95**

MOTOROLA

Motorola® RDX Series™ Radios

8414

4 Watt & 5 Watt

Delivering audio that is 30% louder than Motorola XTN and AX Series models, RDX Series two-way radios feature 2,000 mW audio output, speaker magnetic field reduction, wind-noise reduction, and improved RF specifications. On the model featuring a display (29270), channel aliasing allows you to give each channel a user-defined name, and five programmable buttons provide fast access to features such as priority scan, power select, and keypad lock. Meets Military 810 C, D, E, F and IP54/55 specifications for shock, rain, humidity, vibration, sand/dust, temperature shock, and high/low temperatures.

Coverage (varies based on terrain and conditions): up to 350,000 sq. ft., 30 floors. **Squelch:** 122 interference eliminator codes. **Battery:** rechargeable Li-Ion battery. **Weight (with battery):** 8.6 oz. **Dimensions (approx.):** 4.5″x 2.2″x 1.6″.

UHF Radio, 4 Watts/10 Channels	R	2 lbs.	**29324**	**$279.00**
UHF Radio with Display, 4 Watts/16 Channels	R	2 lbs.	**29270**	**$299.99**
VHF Radio, 5 Watts/10 Channels	R	2 lbs.	**29325**	**$259.00**
Remote Speaker Mic		8 oz.	**29315**	**$56.00**
Headset with Swivel Boom Mic		8 oz.	**29316**	**$65.00**
Leather Case with 3″ Swivel		5 oz.	**29331**	**$55.00**
Multi-Unit Charger for Motorola RDX Series	R	3 lbs.	**29332**	**$239.00**
Two-Hour Rapid Charger Kit for Motorola RDX Series	R	2 lbs.	**29333**	**$65.00**
High Capacity Lithium Ion Battery for Motorola RDX Series	R	5 oz.	**29334**	**$97.95**

MOTOROLA

Motorola® CLS Series Two-Way Radios

2690

Up to 5 Mile Range

1 Manufacturer's Warranty 1 Year

These quality UHF radios have an outdoor range of up to 5 miles and an indoor range of up to 200,000 square feet or up to 15 floors. The keypad lock feature allows you to disable particular buttons so that settings will not be accidentally changed. A scan feature (Model 1410) allows monitoring of frequencies and codes of other transmitting radios. Once the radio detects activity, it stops scanning, locks in on the active channel, and allows you to talk and listen to the person transmitting without changing channels. Scan up to four channels and frequencies. Both models feature three call tones. In addition, Model 1410 also features a VibraCall® alert which silently signals the user of an incoming transmission. Drop-in charger, AC adapter, and plastic holster included. An FCC License is required for operation. One year limited warranty from the manufacturer.

Channels: Model 1110, one; Model 1410, up to four. **Frequencies:** 56 business exclusive. **Codes:** 121 (38 analog, 83 digital). **Power:** 1 watt. **Bandwidth:** 12.5 kHz. **Battery:** rechargeable lithium ion. **Battery life:** up to 12 hours. **Weight:** approximately 5 oz. **Dimensions:** 4.1″x 2.0″x 1.1″.

Model 1110 CLS, 1-Channel UHF	R	2 lbs.	**29218**	**$159.00**
Model 1410 CLS, 4-Channel UHF	R	2 lbs.	**29219**	**$179.00**
Six Unit Multi-Charger	R	3 lbs.	**29284**	**$199.95**
			3+	**$174.50**
Replacement Rechargeable Lithium Ion Battery	R	3 oz.	**29285**	**$39.95**
Leather Case with 360° Swivel	R	3 oz.	**29301**	**$27.50**

Aquapac® Waterproof Two-Way Radio Cases

8494

Outstanding protection!

Radio sound and signals pass easily through the material of these waterproof cases so that you can use your radio normally while the case provides protection from water, dust, and sand. The case's airtight seal ensures your radio will float safely if dropped in water. Designed for use with both left- and right-hand antenna radios. PVC free. Guaranteed submersible to 15 feet (5 meters), these cases are ideal for general use. Neck cord and carabiner included.

Small Waterproof VHF Classic Case, Length to Antenna Tip: 14″; Body Section: 7″; Circumference: 7.6″	4 oz.	**91200**	**$35.00**
Large Waterproof VHF Classic Case, Length to Antenna Tip: 16″; Body Section: 8.7″; Circumference: 8.7″	5 oz.	**91023**	**$35.00**

R Cannot be sold internationally

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MOTOROLA

Motorola® Talkabout® MH230R Rechargeable Two-Way Radios with NOAA Weather Alert

2740

Up to 23 Mile Range

These rugged two-way radios provide reception up to a 23 mile range under optimal conditions. The radios feature 22 channels and 11 weather channels (7 NOAA channels). Easily recharge the radios using the included NiMH rechargeable battery packs and desktop charger. Other features include 121 privacy codes, 2,662 combinations, Quiet Talk™ to eliminate interference from non-Motorola units, 10 audible call tones, talk confirmation tone, a backlit LCD display for easy visibility, keypad lock, and low battery alert. FCC license required for operation. Pack of two radios.

Range (max): up to 23 miles. **Power:** Rechargeable NiMH battery pack (included) or 3 AAA batteries. **Dimensions:** 6.21″ x 2.14″ x 1.15″.

Motorola Talkabout MH230R, pack of 2	R	2 lbs.	**29212**	**$70.50**
			2+	**$64.99**
Optional Headset with Microphone	R	4 oz.	**29303**	**$23.25**
AAA cell Alkaline Batteries, pack of 4		2 oz.	**02362**	**$3.25**

MOTOROLA

Motorola® Talkabout® MJ270R Rechargeable Two-Way Radios with NOAA Weather Alert

2740

Up to 27 Mile Range

These two-way radios offer a range of up to 27 miles under optimal conditions. The radios feature 22 channels and also incorporate NOAA Weather Radio capability. A built-in flashlight provides a handy emergency light source. Use the included NiMH rechargeable battery packs and desktop charger to power the radios. Other features include 121 privacy codes, 2,662 channel combinations, Quiet Talk™ to filter interference from non-Motorola units, 10 audible call tones, talk confirmation tone, emergency alert button, a backlit LCD display for easy visibility, keypad lock, and low battery alert. FCC license required for operation. Pack of two radios.

Range (max): up to 27 miles. **Power:** Rechargeable NiMH battery pack (included) or 3 AA batteries.

Motorola Talkabout MJ270R, pack of 2	R	2 lbs.	**29215**	**$76.95**
			2+	**$69.99**
Optional Headset with Microphone	R	4 oz.	**29303**	**$23.25**

MOTOROLA

New! Motorola® Talkabout® MHP61 Isolation Earmuff

2740

Protect your hearing while maintaining two-way radio communication!

Use this earmuff in combination with your Motorola® Talkabout® two-way radio for effective hearing protection that still allows for communication. Simply connect your radio to the earmuff using the included assembly cable that features a push-to-talk microphone. The earmuff can also be used with other audio devices (music players, phones, etc.) or independently. The earmuff offers stereo sound with dual input connectors and dual speakers. Lightweight and comfortable, the sleek, low-profile earmuff design incorporates super-soft ear seals and an adjustable compression head band. Includes earmuff, assembly cable with push-to-talk microphone, assembly cable for audio devices, and user guide. One-year manufacturer's warranty.

Noise Reduction Rating: 21dB. **Weight:** 8 oz. **Dimensions:** 7.48″H x 6.50″W x 3.9″D.

Motorola Talkabout MHP61 Isolation Earmuff	R	14 oz.	**29225**	**$55.00**

MiniVox Lite System with Corded Microphone

8703

Made in USA

Lightweight and compact, this battery-operated system delivers 109 dB of clear sound. The system weighs only 3 pounds and features a 4.5″ neodymium woofer and 30W amplifier. The line input allows you to plug in an iPod, MP3, or CD player. Six-year manufacturer's warranty. Includes speaker unit, wired microphone, battery recharge kit (10 AA NiMH batteries and charger), and soft case. Made in the USA.

Rated Power Output: 30 watts. **Frequency Response:** 100 Hz to 15 Hz ±3dB. **Maximum SPL at Rated Power:** 109 db at 1m. **Power:** 10 AA batteries (included). **Dimensions:** 5.5″H x 5.5″W x 6.5″D.

MiniVox Lite System with Corded Microphone	4 lbs.	**29132**	**$372.50**
AA cell Alkaline Batteries, pack of 4	7 oz.	**02352**	**$3.25**

Rite in the Rain®
pages 87, 149, 169, 382, 423, and 553 thru 558

R Cannot be sold internationally

Fanon® Megaphones

5847

Fanon MP-5 Megaphone – 300 Yard Range

Battery-operated and convenient to use. The sturdy, high-impact, ABS plastic bell and weatherproof, built-in microphone will give years of use. Features pistol-trigger talk switch, volume control, dynamic microphone, and carrying strap. 5 Watts. Operates on eight AA cell batteries (not included).

Fanon MP-5	4 lbs.	**29129**	**$89.95**
		2+	**$84.95**
AA cell Alkaline Batteries, pack of 4	7 oz.	**02352**	**$3.25**

Fanon MV-10S Megaphone – 600 Yard Range

Ideal for police, fire, industrial, and recreational applications. Weatherproof. Features volume control, built-in signal alarm/fog horn, pistol-trigger talk switch, and dynamic microphone. Sturdy high-impact, ABS plastic bell. 10 Watts. Powered by six C cell batteries (not included).

Fanon MV-10S	5 lbs.	**29125**	**$126.95**
		2+	**$121.95**
C cell Alkaline Battery, single	3 oz.	**02181**	**$1.85**

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Midland® LXT560 Two-Way Radios
7291

Up to 26-Mile Range

Offering crisp, clear communication, this two-way radio features a 26-mile range and 36 Channels plus 121 privacy codes to block unwanted conversations on your channel. The radio also incorporates a NOAA Weather Alert Radio with Weather Scan that automatically locks on your local weather channel and alerts you of severe weather. The water-resistant radio features five call alerts, provides silent page/call notification using the vibrate alert feature, automatically scans all channels for activity, and uses auto squelch to remove annoying background noise. Other features include keystroke tones, hands-free eVOX Easy Voice Activation with three sensitivity levels, silent operation option, keypad lock, battery life extender, and a backlit display for easy viewing day or night. Requires FCC license for use. Three year manufacturer's warranty. Included are a pair of radios, belt clips, desktop charger, rechargeable batteries, and AC wall adapter. **Power:** 4 AAA alkaline batteries (not included) or rechargeable batteries (included).

Midland LXT560 Two-Way Radio, Pair	R	2 lbs.	**29204**	**$59.50**
			2+	**$54.50**

Midland® GXT1000 Two-Way Radios
7289

Up to 36-Mile Range

This water-resistant two-way radio combines an impressive 36-mile range with a NOAA weather alert radio that provides continuous NOAA weather information 24/7. An SOS Siren allows you to send out distress/locator signals in emergencies. The radio's Group Call feature allows you to make "direct calls" to other people within a group without alerting the entire group. With the radio's Whisper feature, you can still be heard clearly by others even when you are speaking quietly. The switchable HI/MED/LO power settings allow you to adjust the transmit power of the radio to fit your needs and conserve battery life. Other features include 50 Channels with 387 privacy codes to give you up to 5,560 channel options to help block other conversations, vibrate alert, 9 sensitivity levels of eVOX for hands-free operation, channel scan, 10 different call alerts, silent operation, auto squelch, battery life extender, keypad lock, and backlit display. Waterproof to JIS4 specifications. FCC License required for operation. Three year manufacturer's warranty. Included are a pair of radios, a pair of mic headsets, belt clips, desktop charger, rechargeable batteries, AC wall adapter, and DC (vehicle) adapter.

Midland GXT1000 Two-Way Radio, Pair	R	2 lbs.	**29203**	**$89.95**
			2+	**$84.95**

Midland® GXT860 Two-Way Radios
7290

Up to 36-Mile Range

Featuring 42 channels and up to a 36-mile range, this water-resistant two-way radio also provides constant NOAA weather information 24 hours a day, 7 days a week! The Weather Scan feature automatically finds the active weather channel in your local area to obtain severe weather alerts. Other features include 142 privacy codes which provide up to 3,144 channel options to help you block other conversations, 10 call alerts, eVOX voice activation with five sensitivity levels for hands-free operation, channel scan, auto squelch, vibrate alert for silent page/call notification, a backlit display, keystroke tones, a silent operation option, and HI/MED/LO power settings to adjust transmit power and conserve battery life. FCC License required for operation. Pair of radios, pair of mic headsets, belt clips, desktop charger, rechargeable batteries, and AC wall adapter included. **Power:** 4 AA batteries (not included) or rechargeable batteries (included).

Midland GXT860 Two-Way Radio, Pair	R	2 lbs.	**29206**	**$80.95**
			2+	**$76.25**

Midland® Nautico 3 Two-Way Marine Radio
2968

This two-way VHF radio offers 5 watts of transmit power and receives all U.S. and international marine channels. The NOAA all-hazards alert weather radio feature provides automatic alerts for severe weather 24/7, and the Emergency Channel 16 button ensures instant access to emergency information. Three call alerts notify you of incoming calls within your group, and auto squelch removes annoying background noise. The large, backlit display is easy to read day or night. Other features include hi/lo power setting adjustment, roger beep, keypad lock, channel scan, eVOX for hands-free use, and battery power indicator. Meets JIS4 specifications for light rain exposure. Includes radio, holder/mounting hardware, mic headset, AC/DC chargers, and rechargeable battery pack. Three-year warranty from the manufacturer. **Power:** 4 AA batteries (not included) or rechargeable Ni-MH battery pack (included).

Midland Nautico 3 Two-Way Marine Radio	R	1 lb.	**29214**	**$72.95**

Bucket Boss® Ballistic Mobile Holder
2149

Double-interwoven ballistic nylon, 1680 polyester, and foam padding. Features a top-loading, water-resistant zipper tape closure. Use the stainless steel spring clip to attach the case to your tool belt, pants, or belt. **Dimensions:** 3″ x 1.5″ x 6.5″.

Bucket Boss Ballistic Mobile Holder		4 oz.	**22737**	**$6.75**

R Cannot be sold internationally

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ANSI Class 2 Surveyor's Vest

2183

High-visibility vest offers plenty of storage!

Constructed of fade-resistant 8 oz. polyester, the hi-viz orange vest also features 3M reflective tape for increased visibility and a non-metallic zipper in front. Complies with ANSI 107 Class 2 standards.

ANSI Class 2 Mesh Vests

4456

Designed to be compliant with ANSI/ISEA 107. Made of lightweight, mesh polyester fabric and features 2″ reflective silver tape in a 360° horizontal stripe with 2 vertical stripes. Hook and loop front closure. Available in Lime Yellow or High Vis Orange.

ANSI Class 2 Two-Tone Mesh Safety Vest

4743

The best of both worlds! These vests have both hi-vis yellow and hi-vis orange with 2″ silver reflective tape. Two vertical stripes and one 360° horizontal stripe are backed by ANSI compliant trim. 100% ANSI polyester mesh. One inside left chest pocket.

	Color	Small/Medium, 26″ to 38″ Chest	Large, 38″ to 42″ Chest	X-Large, 42″ to 46″ Chest	XX-Large, 48″ to 52″ Chest	Weight	Each	12+	24+
ANSI Class 2 Surveyor's Vest	Orange	24866	24867	24868	24854	11 oz.	$26.95	$22.95	$21.95
	Color		**L/XL, 38″ to 46″ Chest**		**XXL/XXXL, 48″ to 56″ Chest**	**Weight**	**Each**		
ANSI Class 2 Mesh Vest	Lime Yellow	—	24934		24935	9 oz.	$10.75	—	—
	High-Vis Orange	—	24947		24948	9 oz.	$10.75	—	—
	Color	**Small/Medium**	**Large/X-Large**		**XX-Large/XXX-Large**			**12+**	**24+**
Class 2 ANSI Mesh Two-Tone	Orange	24766	24767		24768	8 oz.	$10.40	$9.45	$8.50
	LIme	24772	24773		24774	8 oz.	$10.40	$9.45	$8.50

ANSI Class 3 Two-Tone Mesh Safety Vest

4744

These Class 3 mesh, two-tone vests have both hi-vis yellow and hi-vis orange with 2″ silver reflective tape. Two vertical stripes, one 360° horizontal stripe, and two 360° horizontal sleeve stripes are backed by ANSI compliant trim. 100% ANSI polyester mesh. Pockets include one lower outside and one inside chest with hook and loop. **Color:** Hi-Vis Yellow with hi-vis orange stripes.

ANSI Class 3 Classic Mesh Surveyor Vests

4746

Vests feature two vertical stripes, one 360° horizontal stripe, and two 360° horizontal sleeve stripes. 100% ANSI polyester mesh. Include 2 inside lower pockets with pen compartment, 4 pen pockets on outside right chest, and 1 outside left double pocket with 4 pen compartments.

	Color	Large	X-Large	XX-Large	Weight	Each	12+	24+
Class 3 ANSI Mesh Two-Tone	Lime	24769	24770	24771	8 oz.	$22.95	$20.50	$19.25
	Color	**Small/Medium**	**Large/X-Large**	**XX-Large/XXX-Large**	**Weight**	**Each**	**12+**	**24+**
Class 3 Mesh Surveyor	Orange	24760	24761	24762	8 oz.	$17.50	$16.75	$16.15
	Lime	24763	24764	24765	8 oz.	$17.50	$16.75	$16.15

Custom Lettering/Logos – Customize our vests to your specifications.
Pick the vest you want and contact our Customer Service Department at 800-752-8460 for details.
Artwork should be available to e-mail.

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JIM-GEM® 8-Pocket Class 2 Mesh Vests

8745

ANSI/ISEA 107-2004 Class 2 Compliant

Designed to comply with ANSI/ISEA 107-2004 Class 2 Standards for high-visibility safety apparel. These economical vests feature eight pockets: a compass pocket, a pencil pocket, a notebook pocket, two pockets at the waist (one with a flagging dispensing grommet and both with Velcro® closures), two inside pockets at the waist and one large pack pocket on the back which stretches across the full width of the vest. Plus, they have a handy mic tab. 100% polyester.

JIM-GEM® Deluxe 12-Pocket Class 2 Mesh Surveyor's Vest

8483

ANSI 107-2004 Class 2 Compliant

This 100% polyester mesh vest is a surveyor's dream come true! Cool and comfortable to wear, you'll also love the many roomy pockets including a radio pocket with a mic clip, a field notebook pocket, 4 pencil slots, a compass pocket with grommet, 4 flagging pockets with grommets, 2 large inside pockets, and 2 inside zippered pockets. Velcro® pocket closures keep items secure. 2˝W Reflective strips on the front and back provide added visibility.

SECO Class 2 Surveyor's Vest with Mesh Back

4519

ANSI/ISEA 107-2004 Class 2 Compliant

Made of 100% polyester, this vest features a cool, comfortable mesh back. The special compartments include a field notebook pocket, pencil slots, a compass pocket with grommet, a flagging tape pocket with grommets, and inside pockets. Plus, there is an exterior radio mic clip.

Class 2 Vests

	Color	Small	Medium	Large	X-Large	XX-Large	Weight	Each	5+
JIM-GEM 8-Pocket Class 2 Vest	Orange	96073	96074	96075	96076	96077	1 lb.	$48.95	$43.95
	Lime Green	96068	96069	96070	96071	96072	1 lb.	$48.95	$43.95
JIM-GEM Deluxe 12-Pocket Mesh Surveyor's Vest	High-Vis Yellow	24959	24960	24961	24962	24963	1 lb.	$57.50	$52.95
	High-Vis Orange	24944	24945	24949	24956	24957	1 lb.	$57.50	$52.95
Class 2 Surveyor's Vest With Mesh Back	Fluorescent Lime Yellow	24833	24834	24835	24836		1 lb.	$72.50	$67.25
						24837	1 lb.	$76.75	$71.25
	Fluorescent Orange	24823	24824	24825	24826		1 lb.	$72.50	$67.25
						24827	1 lb.	$76.75	$71.25

SECO Class 2 Lightweight Safety Utility Vest

8449

ANSI/ISEA 107-2004 Class 2 Compliant

Offers visibility and safety on the job site. Constructed of 100% Polyester for softness, comfort, superior strength, and abrasion resistance. Also features 2˝W reflective strips and convenient pockets with sturdy snap fasteners. Designed to comply with DOT MUTCD and ANSI/ISEA 107-2004 Class 2 Standards for high-visibility safety apparel.

SECO Class 2 & Class 3 Surveyor Safety Vests

7157

ANSI/ISEA 107-2004 Compliant

Developed in conjunction with surveyors from the California Department of Transportation. Vests are made from durable ANSI/ISEA compliant polyester and polyester mesh. Features include YKK® zippers, 4˝W Reflective tape with 2˝W silver stripes made with 3M™ Scotchlite™ Reflective Material, padded collar made with Outlast® fabric on the inside, multiple outside pockets, two inside pockets, and dual mic clips. Fluorescent lime yellow.

	Color/Class	Small	Medium	Large	X-Large	XX-Large	Weight	Each	5+
Class 2 Lightweight Safety Utility Vest	Fluorescent Orange	24818	24819	24846	24847		2 lbs.	$83.50	$78.25
						24848	2 lbs.	$89.50	$81.95
	Fluorescent Yellow	24806	24807	24808	24809		2 lbs.	$83.50	$78.25
						24849	2 lbs.	$89.50	$81.95
SECO Surveyor Safety Vests	Class 2 Safety Utility Vest		24796	24797	24798		2 lbs.	$108.95	$103.75
						24799	2 lbs.	$114.25	$109.25
	Class 3 Safety Utility Vest		24792	24793	24794		2 lbs.	$123.75	$118.75
						24795	2 lbs.	$127.50	$122.25

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Viking® Class 2 Surveyor Safety Vest
4623

ANSI/ISEA 107-2010 Class 2, Level 2 Compliant

The 2˝ 3M Scotchlite™ reflective material on this vest is arranged in a 4˝ WCB/Worksafe/DOT configuration to provide outstanding visibility. The vest is constructed of heavy-duty polyester and features mesh underarm cooling ventilation panels. Also features eight Velcro-sealed pockets, a cell phone/radio pouch, four other pockets for storing small items, a large zippered pocket across the back area, survey tape dispenser grommets on the lower front pockets, ID patch/cell phone/radio clip bands on the upper left and right chest, and a safety D-ring access slot. Fully compliant with ANSI/ISEA 107-2010 Class 2, Level 2.

Viking® Class 2 Rip-Stop Polyester Surveyor Safety Vest
4623

ANSI/ISEA 107-2010 Class 2, Level 2 Compliant

Constructed of heavy-duty 300 denier trilobal rip-stop polyester, this rugged vest resists abrasions, punctures, rips, and snags. The 2˝ 3M Scotchlite™ reflective material is arranged in a 4˝ WCB/Worksafe/DOT configuration to offer excellent visibility, and mesh side vents keep you cool. Features eight Velcro-sealed storage pockets, a cell phone/radio pouch pocket, multiple smaller pockets (for pens, markers, chalk, rulers, etc.), a 14˝ zippered backpack pocket, an 11˝ ruler slot pocket, survey tape dispenser grommets on the lower front pockets, ID patch/cell phone/radio clip bands on the upper left and right chest, and a safety D-ring access slot. Fully compliant with ANSI/ISEA 107-2010 Class 2, Level 2.

Viking® Class 3 Safety Vest
4623

ANSI/ISEA 107-2010 Compliant

This mesh safety vest features 2˝ Vi-Brance® reflective material over 4˝ contrasting tape. Also features two Velcro-closure chest pockets, cell phone/radio clip bands on upper left and right chest, and a front zippered closure. Meets ANSI/ISEA 107-2010 standards. Certified Class 3 Level 2 safety vest.

Aervoe® Marking Paint pages 36 and 37

Viking Safety Vests	Color	Small	Medium	Large	X-Large	XX-Large	XXX-Large	Weight	Each
Class 2 Surveyor	Orange	24744	24745	24746	24747			15 oz.	$55.50
						24748	24749	1 lb.	$58.25
	Lime	24750	24751	24752	24753			14 oz.	$55.50
						24754	24755	1 lb.	$58.25
Class 2 Rip-Stop Polyester Surveyor	Orange	24720	24721	24722	24723			1 lb.	$72.25
						24724	24725	1 lb.	$74.25
	Lime	24726	24727	24728	24729			1 lb.	$72.25
						24730	24731	1 lb.	$74.25
Class 3	Orange	24732	24733	24734	24735	24736	24737	10 oz.	$17.75
	Lime	24738	24739	24740	24741	24742	24743	10 oz.	$17.75

OccuNomix Premium Breathable Rain Jacket
4740

Breathable, waterproof and windproof! This 34˝L jacket provides maximum protection against the harsh elements while making you highly visible thanks to 3M™ Scotchlite™ Reflective Material - two 360° horizontal stripes on the body and four 360° horizontal sleeve stripes. Other features include lightweight 17 mil breathable fabric (100% ANSI polyester with PU coating), a zip rollaway hood, and two pockets. **Color:** Hi-Vis Yellow.

WE DO LOGOS See Page 573

OccuNomix Premium Breathable Bib Pants
4740

These highly visible, waterproof bib pants are breathable and comfortable to wear. One horizontal torso stripe and four horizontal stripes are made of 3M™ Scotchlite™ Reflective material for added visibility at night. Other features include sealed seams, elastic suspenders with release buckle and adjustable leg cuffs with snaps, nylon heavy-duty reinforced knees with foam knee pad insert, 2 slant pass-thru pockets, and a chest pocket with snaps and pen compartment. Made of 100% ANSI Polyester with PU Coating. **Color:** High Vis Yellow.

	Medium	Large	X-Large	XX-Large	Weight	Each	5+
Breathable Rain Jacket		94157	94158	94159	2 lbs.	$48.95	$45.75
Breathable Bib Pants	94239	94240	94241		2 lbs.	$44.50	$41.25

WE DO LOGOS See Page 573

New! OccuNomix Bomber Jacket
4801

ANSI Class 3

This ANSI Class 3 Bomber Jacket is easily seen thanks to the hi-vis yellow polyester material with 2˝ Silver reflective tape. A 100% Black Polyester Fleece zip-out liner can be removed or worn as a separate jacket. Other features include sealed seams making it waterproof, a roll-away hood, 2 outer pockets, 1 inner pocket, a left sleeve pencil pocket with 2 compartments, and 2 Mic tabs. The bottom front, collar, cuffs and waistband are black.

Medium	4 lbs.	24910	$49.95
Large	4 lbs.	24911	$49.95
X-Large	4 lbs.	24912	$49.95
XX-Large	4 lbs.	24913	$49.95

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Mesh Safety Vests with Gloss Reflective Tape
4745

These vests feature two vertical stripes of 1″ wide gloss reflective tape. Vests are made of 100% polyester mesh and feature elastic side straps. One inside lower left pocket. One size fits most.

Orange Vest with Yellow Gloss Reflective Tape		
2 oz.	**24852**	**$6.50**
	25+	**$5.40**
Yellow Vest with Silver Gloss Reflective Tape		
2 oz.	**24853**	**$6.50**
	25+	**$5.40**

Daytime Wear Mesh Safety Vest
6249

Motorists can't help but notice you in these vests!

Plain weave, coated industrial nylon mesh is cool for daytime wear. Elastic at both sides, Velcro® closure in front. One size fits most. Black trim.

Daytime Wear Mesh Safety Vest, Orange		
3 oz.	**24899**	**$5.75**
	25+	**$3.25**
Daytime Wear Mesh Safety Vest, Yellow		
2 oz.	**24878**	**$5.75**
	25+	**$3.25**

ANSI Class 2 T-Shirts
7854

2″ Silver reflective tape: one 360° horizontal stripe with two vertical stripes. Cool, hi-vis t-shirts are made of spun polyester for all day comfort on the job. Left chest pocket. Meet ANSI 107-2010 Class 2.

Medium 8 oz.	**24680**	**$14.95**
Large 9 oz.	**24681**	**$14.95**
X-Large 11 oz.	**24682**	**$14.95**
XX-Large 11 oz.	**24683**	**$14.95**

Water Cooling Vest
3471

Reduce heat fatigue and increase productivity.

Simply soak vest in cool, clean water for five to 10 minutes and enjoy eight to 10 hours of relief. Adjust side clips for snug fit. May be worn under protective clothing. Gel-filled vest only weighs five pounds when hydrated. Durable construction and lightweight cloth assure maximum evaporative cooling comfort. May be handwashed in soap and water. Orange. One size fits all.

Water Cooling Vest		
7 oz.	**24857**	**$25.25**
	5+	**$23.25**

Kinco® Unlined Grain Pigskin High-Visibility Gloves
2503

These grain pigskin gloves feature a high-visibility 3M™ Scotchlite reflective stripe on the nylon back. Safety cuff.

Safety Orange, Medium		
4 oz.	**90952**	**$15.25**
	12+	**$14.25**
Safety Orange, Large		
5 oz.	**90953**	**$15.25**
	12+	**$14.25**
High-Visibility Lime, Medium		
4 oz.	**90948**	**$15.25**
	12+	**$14.25**
High-Visibility Lime, Large		
4 oz.	**90949**	**$15.25**
	12+	**$14.25**

See demo video at forestry-suppliers.com

Rainsuits pages 622 thru 624

EZ Crank Post Puller
2795

This revolutionary post puller takes the stress and strain out of pulling fence posts, signs, stakes, poles, mailboxes, and other objects mounted in concrete or asphalt. Simply turn the crank to unleash 3,500 pounds of pulling capacity. The concrete is easily removed from the ground with little or no damage to the surrounding area. Jobs can be completed faster and with less manpower. The heavy-duty frame is constructed of powder-coated steel to provide years of service.

EZ Crank Post Puller	47 lbs.	**67250**	**$499.95**

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Traffic Signs
8572

Designed to withstand the harshest weather conditions year after year! Each sign is constructed of 0.080″ thick aluminum substrate and features engineer grade reflective sheeting. Signs meet MUTCD (Manual on Uniform Traffic Control Devices).

Call for Quote on Larger Quantities!
See our entire line of Traffic Signs on our website
www.forestry-suppliers.com

Stop Signs

18″ Stop Sign 2 lbs.	06000		$20.20
		15+	$18.70
24″ Stop Sign 4 lbs.	06001		$28.90
		15+	$26.10
36″ Stop Sign 8 lbs.	06002		$59.75
		15+	$54.25

Yield Signs

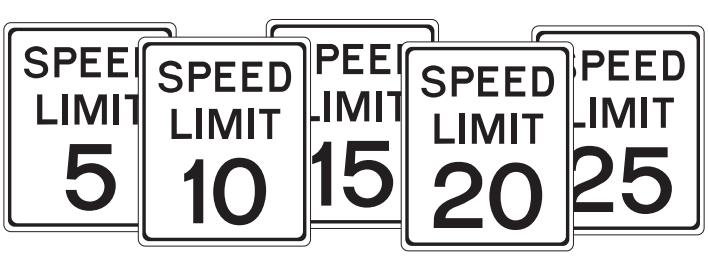
30″ Yield Sign 3 lbs.	06003		$21.90
		15+	$20.70
36″ Yield Sign 5 lbs.	06004		$28.80
		15+	$26.75

Do Not Enter Signs

24″ Do Not Enter Sign 5 lbs.	06005		$29.50
		15+	$26.95
30″ Do Not Enter Sign 7 lbs.	06006		$41.95
		15+	$38.25

No Dumping Signs

12″ x 18″ No Dumping Sign 2 lbs.	06063	$12.10
18″ x 24″ No Dumping Sign 3 lbs.	06064	$20.95



Speed Limit Signs

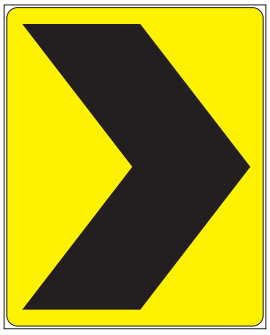
Size	5	10	15	20	25	Weight	Each	15+
18″ x 24″	06014	06015	06016	06017	06018	4 lbs.	$20.95	$19.25
24″ x 30″	06028	06029	06030	06031	06032	7 lbs.	$35.25	$31.50

Parking Signs

Size	No Parking: No Parking	No Parking: No Parking Any Time	No Parking: No Parking Fire Lane	Reserved Disabled: Reserved Disabled Parking	Reserved Disabled: Disabled Symbol Parking	Reserved Disabled: Parking Van Accessible	Wt.	$
12″ x 18″	06048	06049	06050	06052	06053	06054	2 lbs.	$11.75

No Trespassing Sign

18″ x 12″ No Trespassing Sign 2 lbs.	06057	$12.10



Chevron Signs

12″ x 18″ Chevron Sign 2 lbs.	06058	$12.10
18″ x 24″ Chevron Sign 4 lbs.	06059	$20.95

Object Marker Signs

12″ x 36″ Object Marker Sign, Left 4 lbs.	06060	$21.50
12″ x 36″ Object Marker Sign, Right 3 lbs.	06061	$21.50

Slow Children At Play Sign

18″ x 24″ Slow Children At Play Sign 4 lbs.	06062	$21.50

Sign Mounting Hardware
8572

Mounting hardware works with the U-Channel Posts.

Vandal Proof Bolt, 2-1/2″ x 5/16	4 oz.	06073	$0.85
Vandal Proof Nut, 5/16	4 oz.	06074	$1.50
Vandal Proof Washer, 5/16	1 oz.	06075	$0.30

U-Channel Posts
8572

Manufactured from high tensile steel, each post is punched full length with 3/8″ holes on 1″ centers. Green baked enamel paint finish.

8 ft., 2 lb. Green	X	17 lbs.	06065	$21.50
10 ft., 2 lb. Green	F	20 lbs.	06066	$26.95
12 ft., 2 lb. Green	F	26 lbs.	06067	$32.25

F Ships Motor Freight. See Shipping Information for details.

X Items 60″ or more require an additional handling charge.

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15-Minute Safety Flares page 580

Tailgate Warning Flags pages 105 & 581

Polypropylene Sand Bags

1952

White, poly-string tie bags are made of woven polypropylene. String is attached to the bag. Each bag measures 14″W x 26″L. Bundle of 100 bags.

Polypropylene Sand Bags, 100 per bundle 8 lbs.	**58066**	**$58.50**
	10+	**$51.95**

High-Visibility Fluorescent Safety Flags

6236

Provides maximum visual impact for all highway/traffic warning situations.

Made of vinyl-coated red/orange nylon (weight 9-1/2 oz. sq. yd.). Choose limp flag or flag diagonally reinforced with plastic coated stiffener. Flag is 18″ x 18″ in size and is attached to a wooden dowel staff 11/16″ in diameter.

High-Visibility Fluorescent Limp Safety Flag with 30″L Wooden Dowel Staff 7 oz.	**24892**	**$3.95**
	50+	**$3.25**
High-Visibility Fluorescent Safety Flag with Stiffener and 36″L Wooden Dowel Staff 10 oz.	**24893**	**$4.50**
	50+	**$3.75**

Warning Signs

6229

Keep workers safe by alerting drivers with these highly visible warning signs. **Available in two sizes:** 36″ x 36″ or 48″ x 48″. High visibility orange with black lettering. Stands and ribs are sold separately.

Mesh Sign	36″	48″	Weight	$
SURVEY CREW	**58057**		1 lb.	**$30.75**
		58075	2 lbs.	**$38.75**
ROAD WORK AHEAD	**58059**		1 lb.	**$30.75**
		58077	2 lbs.	**$39.25**
MEN WORKING	**58058**		1 lb.	**$30.75**
		58076	2 lbs.	**$38.75**
CAUTION SMOKE OR FOG AHEAD	**58062**		1 lb.	**$30.75**
		58078	2 lbs.	**$38.75**
CAUTION LOG TRUCKS	**58063**		2 lbs.	**$30.75**
		58079	2 lbs.	**$38.75**
BE PREPARED TO STOP	**58095**		1 lb.	**$30.75**
		58099	2 lbs.	**$38.75**
MOWING AHEAD	**58096**		1 lb.	**$30.75**
		58100	2 lbs.	**$38.75**
PRESCRIBED BURN AHEAD	**58101**		1 lb.	**$30.75**
		58087	2 lbs.	**$38.75**
PRESCRIBED BURN AHEAD DO NOT REPORT	**58102**		1 lb.	**$30.75**
		58088	2 lbs.	**$38.75**
FIRE ACTIVITY AHEAD		**58104**	2 lbs.	**$38.75**
SMOKE LIMITED VISIBILITY		**58105**	2 lbs.	**$38.75**
UTILITY WORK AHEAD		**58084**	2 lbs.	**$38.75**
TREE WORK AHEAD	**58103**		1 lb.	**$30.75**
		58089	2 lbs.	**$38.75**
SLOW	**58133**		1 lb.	**$30.75**
		58134	2 lbs.	**$38.75**
ONE LANE ROAD AHEAD		**58113**	2 lbs.	**$38.75**
New! ACCIDENT AHEAD		**58086**	2 lbs.	**$42.95**
TRUCKS ENTERING HIGHWAY		**58081**	2 lbs.	**$38.75**
Flagman Symbol	**58093**		1 lb.	**$30.75**
		58097	2 lbs.	**$38.75**
Worker Symbol	**58094**		1 lb.	**$30.75**
		58098	2 lbs.	**$38.75**

Stands and ribs are sold separately.
Note: These 36″ signs do not meet Federal MUTCD Regulations for interstate and highway use. They are for use on all other roadways.

Sign Stands

6230

Resist air gusts from passing vehicles and winds up to 50 mph!

Set up quickly and feature all aluminum and steel construction. A fast kick release system locks the aluminum legs into place when fully extended for stability on uneven terrain. Fit both 36″ and 48″ signs. Signing heights meet or exceed Federal requirements.

UniFlex™ Sign Stand

Screwlock accepts virtually any manufacturer's fiberglass rib sign panel without adaptation! Features telescoping legs and a single steel coil spring for stability. Places bottom of sign at 12″ above ground level.

UniFlex Sign Stand		23 lbs.	**58090**	**$151.95**
			5+	**$141.50**

TwinFlex™ 60″ Sign Stand

Accepts both rigid and roll-up signs. Features 1-1/4″ square legs and dual steel coil springs for stability in gusty winds. Places bottom of sign at 60″ above ground level.

TwinFlex 60″ Sign Stand	X	50 lbs.	**58082**	**$259.00**

DynaLite™ Non-Spring Sign Stand

Lightweight and compact! Designed to display 36″ or 48″ roll-up signs. Made of powder-coated steel and aircraft quality aluminum. Foot operated leg releases quickly lock legs in one of three positions. Other features include non-skid rubber tips and triple flag holder.

Accepts both rigid and roll-up signs. Features 1-1/4″ square legs and dual steel coil springs for stability in gusty winds. Places bottom of sign at 60″ above ground level.

DynaLite™ Non-Spring Sign Stand		15 lbs.	**58085**	**$110.00**

Rib Systems

36″ Rib System with pair of Folding Flags		3 lbs.	**58091**	**$31.25**
48″ Rib System with pair of Folding Flags	X	4 lbs.	**58092**	**$33.95**
36″ Rib System without pair of Folding Flags		2 lbs.	**58060**	**$11.75**
			10+	**$10.75**
			20+	**$10.25**
48″ Rib System without pair of Folding Flags	X	3 lbs.	**58083**	**$14.70**
			10+	**$13.75**
			20+	**$12.50**

X Items 60″ or more require an additional handling charge.

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Tripod Sign Stand
6232

No special adapters needed!

Displays 36″ and 48″ roll-up or rigid panel signs without special adapters! Made from corrosion-resistant tubular steel, this lightweight stand allows for easy set-up and take down. Stand is NCHRP-350 approved with roll-up signs on low speed roadways.

Tripod Sign Stand	12 lbs.	**58080**	**$43.75**
		5+	**$40.75**
36″ Rib System without pair of Folding Flags	2 lbs.	**58060**	**$11.75**
		10+	**$10.75**
		20+	**$10.25**
48″ Rib System without pair of Folding Flags	3 lbs.	**58083**	**$14.70**
		10+	**$13.75**
		20+	**$12.50**

POGO Sign Stand for 36″ or 48″ Rollup Sign
8425

Ideal for economical in-ground installation of roll-up sign panels! Simply step on the lower crossbar to drive the stand base into the ground. Built in steel spring clips hold 36″ and 48″ roll-up sign panels. Constructed of galvanized steel. **Height:** 56″. **Weight:** 6.5 lbs.

POGO Sign Stand for 36″ or 48″ Rollup Sign	5 lbs.	**58135**	**$29.95**
36″ Rib System without pair of Folding Flags	2 lbs.	**58060**	**$11.75**
		10+	**$10.75**
		20+	**$10.25**
48″ Rib System without pair of Folding Flags (X)	3 lbs.	**58083**	**$14.70**
		10+	**$13.75**
		20+	**$12.50**

Stacker Rubber Base Stand with Screwlock Panel Holder
8424

Accepts all standard 1-1/4″W fiberglass cross braces. Internal lever actuated clamp prevents damage from over tightening. Two molded carry handles. Pocket panel holder clamps the roll-up sign to the stand utilizing the plastic pocket on the sign panel. Mast folds down into the rubber base. 3″H x 20″W x 28″L.

Stacker Rubber Base Stand	44 lbs.	**58136**	**$99.00**
36″ Rib System without pair of Folding Flags	2 lbs.	**58060**	**$11.75**
		10+	**$10.75**
		20+	**$10.25**
48″ Rib System without pair of Folding Flags (X)	3 lbs.	**58083**	**$14.70**
		10+	**$13.75**
		20+	**$12.50**

Traffic Cones
6233

These fluorescent, highly visible traffic cones are ideal for use by work crews on roads and highways. "Slim line" construction decreases wind lift. Molded 13″ square, rubber base provides stability.

Traffic Cones		Without Reflectors			With 4″ & 6″ Reflectors		
18″H		**24879**			**24871**		
28″H			**24880**			**24876**	
36″H				**24875**			**24877**
Color		Fl. Orange	Fl. Orange	Fl. Orange	Fl. Orange	Fl. Orange	Fl. Orange
Restrictions			(O)	(O)		(O)	(O)
Weight		3 lbs.	7 lbs.	13 lbs.	3 lbs.	7 lbs.	13 lbs.
$	Each	**$10.95**	**$16.50**	**$27.95**	**$16.35**	**$22.75**	**$30.25**
	10+	**$10.25**	**$15.50**	**$26.95**	**$15.50**	**$21.75**	**$29.25**
	20+	**$9.25**	**$14.75**	**$25.50**	**$13.95**	**$20.50**	**$27.25**
	40+	**$8.25**	**$13.95**	**$23.95**	**$12.95**	**$19.25**	**$25.50**

Traffic Cone Holder
2501

Mounts onto bumper. Heavy duty steel with silver enamel finish. Holds ten 18″ cones or five 28″ cones.

Traffic Cone Holder	2 lbs.	**24800**	**$12.95**

42″ Stacker Cone
6234

Virtually impossible to tip over!

This stackable cone is highly visible and extremely rugged. Features a molded-in handle. Funnel included for filling plastic base with up to 16 pounds of sand to increase ballast. Cone, base, and reflective collars are sold separately.

42″ Stacker Cone	3 lbs.	**58071**	**$18.95**
		10+	**$16.25**
Plastic Base	2 lbs.	**58072**	**$15.25**
		10+	**$12.75**

(O) Oversize. Ships at Oversize rate. See Shipping Information for details.

(X) Items 60″ or more require an additional handling charge.

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Warning Triangles
6223

A superb highway emergency reflector!

Complies with Federal Motor Vehicle Standard No. 125. Unfolds and sets up in one simple operation. ABS plastic lenses are extremely brilliant and reflective. Folds to convenient carrying size. Set of three.

Set of three Warning Triangles	13 lbs.	**24890**	**$25.25**
		5+	**$22.50**

3-Inch "CAUTION" Barricade Tapes page 25

Made in USA

LED Universal Road Flare Kit
7642

Use these versatile LED flares in road safety applications to identify road hazards, signal for help, or mark detours. They're also ideal for use on construction sites and in marine safety applications. Each rechargeable 18-LED flare is visible up to one mile. Choose from seven different flash patterns: rotate, quad flash, alternating blinks, quick flash, S.O.S. rescue (Morse Code), steady on, and three-LED marker light. Constructed of crushproof polycarbonate plastic with an impact-resistant rubber housing, each waterproof flare features a strong magnet that easily attaches to any magnetic metal surface. The rugged storage case also doubles as a charging base. Includes six flares, storage/charging case, 120V wall charger, and 12V car charger. NFPA, DOT, and MUTCD compliant. Made in USA.

LED Universal Road Flare Kit	7 lbs.	**24881**	**$215.75**

AERVOE®

Aervoe® Collapsible Traffic Cones
7170

Perfect for first responders and road maintenance crews, these collapsible cones store flat, set up quickly, and are highly visible to help direct traffic away from accidents, breakdowns, or other hazards. Each cone features a blinking LED beacon, two reflective stripes, and durable nylon construction. Storage case included. Meets MUTCD specifications. **Power for LED Beacon:** 2 AAA batteries (not included).

18″H Traffic Cone – Folds flat to 9-1/2″ square	13 oz.	**58065**	**$16.95**
		10+	**$14.75**
28″H Traffic Cone – Folds flat to 12″ square	4 lbs.	**58067**	**$32.75**
		6+	**$27.75**

15-Minute Safety Flares
6203

For distress signals on the highway.

Weatherproof flare emits a bright red glow for 15 minutes. Easy to use – complete instructions on box. Recommended by National Safety Council and used by Highway Patrols. UL® approved. Package of three 1″ x 9″ flares. Available to customers in the United States only.

15-Minute Safety Flares	A	1 lb.	**85340**	**$6.75**
			12+	**$6.50**

A Extra Charge if Shipped by Air. See Shipping Information for details.

Krehler LIGHTING PRODUCTS

BRIGHT STAR The first name in flashlights.

Bright Star® Heavy Duty Industrial Flashlight & Wand
8520

This rugged flashlight features a crush-resistant reinforced case, an unbreakable lens, and a 250,000 cycle switch with a switch guard to prevent accidental lighting. The flashlight's lens ring accepts a 6.5″ snap-in wand (sold separately).

Light output: 10,000 beam candlepower. **Power:** 2 D cell batteries (not included). **Dimensions:** 8.1″L x 2.3″W.

Heavy Duty Industrial Flashlight	6 oz.	**02458**	**$8.95**
		12+	**$8.25**
6.5″ Red Snap-In Wand	1 oz.	**02459**	**$5.95**
D cell Alkaline Battery, Single	6 oz.	**02180**	**$2.45**

Electronic Safety Baton
2502

The high intensity LED lights in this baton provide excellent visibility.Water- and impact-resistant, easy grip handle, heavy duty push button on/off switch, and an adjustable wrist strap.

Three lighting options: slow blinking, fast blinking, or no blinking. **Power:** 2 C cell batteries (not included). **Dimensions:** 20-1/2″L x 1-1/4″ dia., 13″L light area.

Electronic Safety Baton	6 oz.	**02419**	**$20.95**
		10+	**$17.95**
C cell Alkaline Battery, single	3 oz.	**02181**	**$1.85**

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Warning Narrowcades®
1577

Extremely durable plastic. May be filled with sand to increase ballast (use funnel, included). Metal brackets for mounting standard flasher light (Sold separately below.) Yellow, 13˝W x 45˝H narrowcade with orange, reflective 12˝ x 24˝ sheeting and black letters.

"SURVEY CREW AHEAD/SLOW" Warning Narrowcade	10 lbs.	**58050**	**$77.50**
		4+	**$73.50**
"TREE WORK AHEAD" Warning Narrowcade	10 lbs.	**58068**	**$76.25**
		4+	**$72.25**
"CAUTION/SMOKE AHEAD" Warning Narrowcade	10 lbs.	**58051**	**$76.25**
		4+	**$72.25**
"MEN WORKING" Warning Narrowcade	9 lbs.	**58053**	**$76.25**
		4+	**$72.25**

Warning Plasticade®
6227

Extremely durable plastic, won't damage vehicles when hit.

Plasticade may be filled with sand to increase ballast (use funnel, included). Specially molded handle holds standard flasher light (24895, sold separately). White (24˝W x 45˝H) plasticade with reflective white and orange (12˝ x 24˝) striped sheeting.

Warning Plasticade	19 lbs.	**58048**	**$74.25**
		4+	**$67.75**

Stop/Slow Sign with PVC Staff
4639

Use this non-reflective STOP/SLOW sign as a paddle or a pole. 18˝ Diameter sign is mounted to an 18˝L PVC handle which connects to a 60˝L PVC handle. When used as a pole, the sign stands 72˝ from the ground.

Stop/Slow Sign with PVC Staff 4 lbs.		**24884**	**$50.95**
		6+	**$45.95**

Standard Flasher Light
1163

Fits all barricades and barrels. Features a 7˝ diameter Lexan® lens and a polyethylene case for practically unbreakable quality and durability. Flashes 55 to 65 times per minute. LED model uses four D cell batteries. Solar switch allows longer battery life – turns on at dark, off at light.

LED Flasher Light, 4 D Cell	1 lb.	**24895**	**$21.95**
D cell Alkaline Battery, Single	6 oz.	**02180**	**$2.45**

Flagman's Hand Paddles
6240

Hard, baked enamel finish on both sides. Steel handle. Sign is 17-1/2˝ in diameter. Single paddle.

"Stop – Slow" 2 lbs.		**24897**	**$22.95**
		6+	**$20.95**

A-Frame Legs with I-Beam
6225

Excellent for crowd control and work area protection.

Constructed of tough, molded polyethylene that will not chip, crack, or peel. Frames withstand temperatures from -40°F to +120°F, can be ballasted with sand, and feature upper and lower receptacles to hold two I-Beams. Includes two hollow A-Frames and one 2˝ x 8′ I-Beam. Beam is double-sided reflective.

A-Frame Legs with I-Beam	Ⓞ	15 lbs.	**58069**	**$103.95**
			3+	**$99.25**
			6+	**$93.50**
			10+	**$88.75**

Pressure-Sensitive Reflective Tape
6243

Reflects light from headlights and flashlights. Lightweight plastic with pressure-sensitive adhesive backing. 1˝W x 30′L Roll.

Construction Orange	4 oz.	**58006**	**$12.15**
		6+	**$10.60**
White	3 oz.	**58005**	**$12.15**
		6+	**$10.60**

Red/White Reflective Truck Tape
2202

Pressure-sensitive tape features alternating 11˝ red and 7˝ white reflective strips. 600 Candelas bright.

2˝x 50 Yard Roll	3 lbs.	**24924**	**$120.95**

Tailgate Warning Flag
6239

Vinyl-coated nylon flag is fluorescent red/orange with wire spreader and pigtail for attachment. 18˝ x 18˝.

Tailgate Warning Flag 4 oz.		**58026**	**$3.75**
		50+	**$2.95**

Ⓞ Ships at Oversize rate. See Shipping Information for details.

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New! Dashboard LED Light Bar
4950

With twelve LEDs (six amber and six clear) and 19 flash patterns, this dashboard light bar provides excellent visibility for your vehicle! The adjustable light bar tilts to match the angle of your windshield and easily installs using suction cups or Velcro®. The 10′ coiled power cord features a flash pattern selector switch and an on/off switch.

Volts: 12-24. **Amps:** 0.35. **Dimensions:** 2-1/5″ x 14″ x 3-1/4″. **Weight:** 1.4 lbs.

Dashboard LED Light Bar	2 lbs.	**02210**	**$145.00**

North American Signal Company Low-Profile LED Light Bar with Magnetic Mount
7457

This low-profile LED light bar cycles through three pre-programmed flash patterns and attaches using a magnetic mount. Features a 15′ straight cord and plug with built-in on/off switch and LED indicator.

Operating Voltage: 12/24. **Maximum Current Draw:** 1.4 Amperes. **Dimensions:** 2.75″H x 17.25″L x 9.4″D.

Amber LED Light Bar	9 lbs.	**02222**	**$229.95**
		2+	**$214.75**
New! Amber/Green LED Light Bar	9 lbs.	**02221**	**$229.95**
		2+	**$214.75**

PSE Amber® Quadrant™ Mini Bar LED Light
2426

This compact light features four Torus™ style LED lightheads that provide excellent signal strength and 360° visibility. Each lighthead module is comprised of four brilliant LEDs. Choose from 19 different flash patterns using the built-in switch on the light's 9′ cord. The spring-loaded magnetic/suction cup mounting system allows the mini bar to easily conform to uneven surfaces. Permanent mounting hardware is also included. Features polycarbonate lenses and base. Five-year manufacturer's warranty on LED modules. Available with red or amber lens.

Voltage: 12/24. **Average Amp Draw:** 12V, less than 1.0 amp; 24V, less than 0.5 amp. **Dimensions:** 11″L x 2.4″H (3.1″H with mounting feet) x 7.3″D.

PSE Amber Quadrant Mini Bar LED Light, Red	4 lbs.	**02521**	**$190.25**
PSE Amber Quadrant Mini Bar LED Light, Amber	4 lbs.	**02522**	**$190.25**

GOLIGHT® RadioRay® Remote Controlled Spotlights
6219

Features a convenient remote control.

Remote controlled, exclusive design allows you to turn the light on/off or move the beam up and down 135° or side to side 370° by utilizing the interior remote control. Features a 12V Philips Axial Filament halogen bulb, a 16′ weatherproof cord with a 12V DC adapter which runs off your vehicle's battery, a mechanical 6″x 6″rubber "sure-lock" suction cup base for temporary mounting, and a permanent mounting bracket (or choose the model with a magnetic base). High-impact, UV-resistant, weather-resistant, salt water-resistant housing ensures hours of dependable use.

Peak Beam Intensity: 225,000 candela. **Maximum Beam Distance:** 949 meters (3,113 feet). **Beam Angle:** 8°. **Amp Draw:** 5.5 Amps with 12V power source.

GOLIGHT RadioRay Wired Remote Control Spotlight	5 lbs.	**02101**	**$129.00**
GOLIGHT RadioRay Wireless Remote Spotlight with Magnetic Mount, Black	7 lbs.	**02099**	**$259.00**
GOLIGHT RadioRay Wireless Remote Spotlight with Magnetic Mount, White	7 lbs.	**02098**	**$259.00**

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Four-Function LED Strobe Light
7348

This 16-LED amber strobe light features four distinct user-selectable flash patterns (single flash, double flash, simulated rotating, and steady burn) and a magnetic mount.

Power: 2 D batteries (not included). **Battery Life:** 400 hours. **Dimensions:** 5.5˝H x 4.25˝W.

Four-Function LED Strobe Light	12 oz.	**91265**	**$45.25**
		12+	**$41.75**

PSE Amber® 420 Beacon Dual Rotator Light Bar
2268

This light bar features two 55-Watt standard rotators, a polycarbonate amber lens, diamond mirror, and a suction cup mount. Meets SAE requirements. Includes 12´ straight cord with lighter plug and on/off switch.

Power: 12V, 8.6 amp draw. **Dimensions:** 16.5˝L x 8˝W x 5.25˝H.

PSE Amber 420 Beacon Dual Rotator Light Bar	7 lbs.	**02279**	**$163.25**
		3+	**$150.75**

New! North American Signal Company 375 Series LED Single-Flash Micro-Burst™ Strobe Light with Amber Dome
8261

This single-flash, 360-degree LED strobe light measures 4.6˝ at the base and is 3.5˝ tall. Features a 60 lb. pull-magnet base and a 15´ straight cord with a 12V DC adapter plug and a built-in on/off switch. The housing is constructed of rugged sonic-welded polycarbonate. SAE Class 1 certified. 5-Year warranty from the manufacturer.

Voltage: 12/24. **AMPS:** 1.2 maximum at 12.8V. **Flashes Per Minute:** 60 Single.

Single-Flash Strobe Light with Amber Dome	1 lb.	**02282**	**$99.95**
		3+	**$91.75**

3 Manufacturer's Warranty 3 Year

North American Signal Company 350 Series Quad-Flash Micro-Burst™ Strobe Light with Amber Dome
8261

This quad-flash light is 4.6˝ wide at the base and 4˝ tall, sealed to keep out dirt and moisture, and reinforced to protect against shock and vibration. Features a magnet mount with a 15´ straight cord and plug assembly designed with a built-in on/off rocker switch. 3-Year warranty from the manufacturer.

Voltage: 12/48. **AMPS:** 0.8. **Flashes Per Minute:** 65 Quad. **Joules:** 5.25. **Light Output:** 500 candelas/second. UL® Listed.

Quad-Flash Strobe Light with Amber Dome	1 lb.	**02203**	**$92.25**
		4+	**$87.25**
		8+	**$80.50**

North American Signal Company 625 Series Amber Strobe Light with Magnetic Mount
8263

This bright, powerful, economical, multi-voltage double flash strobe light comes standard with a black ABS plastic base and Fresnel lens. Includes a 75 lb. pull magnet and a 15´ coiled cord with 12V DC adapter with a built in ON/OFF switch.

Voltage: 12/24. **AMPS:** 0.9. **Flashes Per Minute:** 75 double. **Joules:** 10. **Light Output:** 800 candelas/second. **Dimensions:** 4.5˝W x 5.5˝H.

Amber Strobe Light with Magnetic Mount	2 lbs.	**02281**	**$126.95**
		3+	**$116.95**

North American Signal Company LED 625 Series Amber Beacon Light
8263

A high-impact LED provides complete 360 degree coverage, and the polycarbonate Fresnel lens ensures optimum light output. Choose from four flash patterns. Certified SAE Class 2.

Voltage: 12/24. **Dimensions:** 4.5˝H x 5.5˝ dia.

LED 625 Beacon Light with Magnetic Base, Includes 75 lb. pull magnet and 15´ cord with 12V DC adapter and built-in switch (on/off and pattern change).	2 lbs.	**02288**	**$122.50**

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SOKKIA

Sokkia™ Pocket Stereoscope
5878

Interpupillary range 55 mm to 72 mm. Field of view 125 mm x 125 mm. Impact-resistant plastic frame with metal folding legs.

2x Magnification 4 oz.	**51187**	**$66.25**

SOKKIA

Sokkia™ Small Mirror Stereoscope
5873

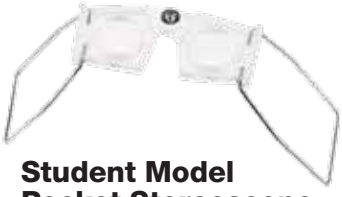
Optical path extended to 16 cm (6.3″) by mirrors. Provides a wide field of view – 100 mm x 100 mm (3.9″ x 3.9″). 1.5x Magnification, 65 mm interpupillary distance. Legs fold for compact storage. Complete with case.

1.5x Magnification 3 lbs.	**51188**	**$506.00**

Forestry Suppliers' Pocket Stereoscope
5877

Precision ground meniscus lenses. Adjustable interpupillary range 50 mm to 70 mm. Field of view 125 mm x 125 mm. All metal cast alloy frame with fold-away wire frame legs. Supplied with vinyl case.

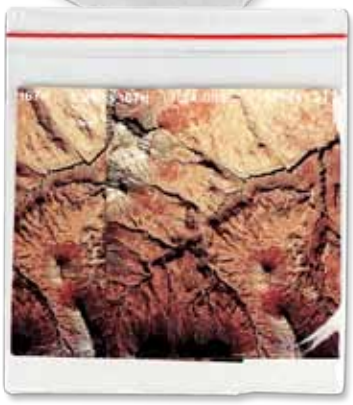
2x Magnification 10 oz.	**51154**	**$39.95**
	10+	**$34.95**
4x Magnification 10 oz.	**51155**	**$43.50**
	10+	**$40.50**



Student Model Pocket Stereoscope
5883

Plastic lenses provide sharp, 3-D images. Adjustable interpupillary range. Legs fold for storage.

2.2x Magnification 3 oz.	**51159**	**$9.10**
	10+	**$8.10**



Aerial Targets
5884

For use in photo identification.

Place these ready-to-use targets at predetermined points before flyover. Choose from the bulls-eye target with a black background, white cross, and white bulls-eye or the black and white iron cross aerial target. Constructed of heavy-duty vinyl. 60″ x 60″.

Bulls-Eye Aerial Target 1 lb.	**58001**	**$24.50**
	12+	**$22.25**
	24+	**$19.95**
Iron Cross Aerial Target 15 oz.	**58002**	**$24.50**
	12+	**$22.25**
	24+	**$19.95**
Steel Ground Staples, Box of 1,000 36 lbs.	**25019**	**$48.25**
	5+	**$44.25**

24″ Degradable Aerial Target Fabric
5890

Make your own aerial targets with this degradable fabric!

Each 100′ roll makes five, 10 ft. targets or six, 8 ft. targets (X-shaped targets). Target will safely decompose within 6 to 24 months. Available in a white 2′ x 100′ roll, you can design your own targets by cutting the fabric to the lengths you need.

White 2 lbs.	**58035**	**$31.25**
Steel Ground Staples, Box of 1,000 36 lbs.	**25019**	**$48.25**
	5+	**$44.25**

Flexible Aerial Photo Carriers
5889

Protect your valuable photographs from fingerprints, dirt, and rain!

Transparent on both sides. Flexible at all temperatures, these vinyl cases have an easy open/close plastic zipper.

For 9-1/2″ x 9-1/2″ Photos 2 oz.	**51081**	**$1.55**
For 10-1/2″ x 10-1/2″ Photos 2 oz.	**51092**	**$2.25**
For 14″ x 15″ Photos 3 oz.	**51082**	**$3.05**

Geoscope Economy Mirror Stereoscope
5872

1.2x Magnification, Optional 4x Eyepiece

An economical unit for lab or field use. This portable mirror stereoscope is for use with 9″ x 9″ stereo photographs. It features a 1.2x magnifying unit, and the rugged plastic frame folds to compact size of 2″ x 6-1/2″ x 14″. Also available is an optional eyepiece with 4x magnification and a 55-75 mm interpupillary adjustment. The field of view is 12° and it has a close-up focus of 150 mm. Constructed of durable plastic to fit precisely on your geoscope.

Geoscope Economy Mirror Stereoscope 3 lbs.	**50999**	**$210.00**
4X Binocular for 50999 12 oz.	**50997**	**$269.95**

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SOKKIA

Sokkia™ Model MS27 Mirror Stereoscope
2785

Designed for detailed interpretation of aerial photographs, this stereoscope delivers sharp, stable stereoscopic images and is easy to operate. The precise optical system minimizes distortion of the stereoscopic model observed through the stereoscope, ensuring accurate interpretation. The 18 cm x 23 cm field of view is wide enough to cover the entire area of aerial photographs 23 cm x 23 cm in size. In addition, the stereoscope is designed so that the distance between the two photographs remains constant for any length of the eye-span.

Axial Separation of the Mirrors: 27 cm. **Field of View:** 18 cm x 23 cm. **Weight:** Stereoscope, 8.8 lbs.

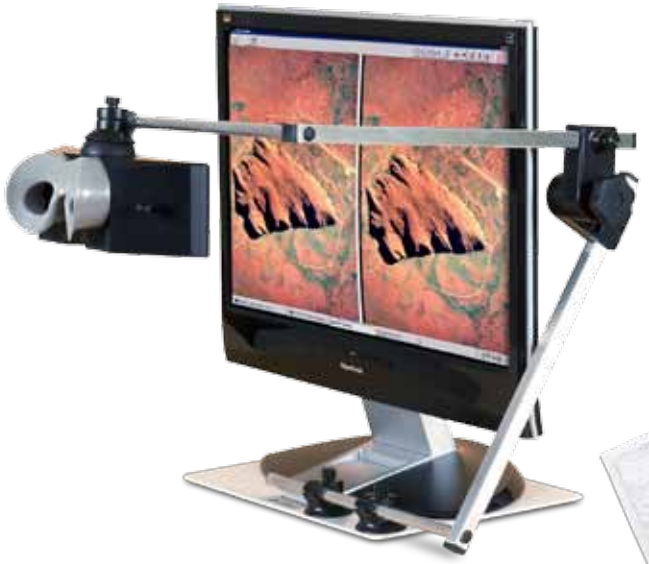
Model MS27 Mirror Stereoscope with Built-in 1.8x Magnifier 14 lbs.	**51112**	**$1584.00**

ScreenScope Pro Mirror Stereoscope
4187

True 3D viewing on your LCD screen

ScreenScope Pro clamps directly onto 14″ to 21″ LCD monitors, and is easily adjustable for customized viewing of 3D images on your computer monitor. No expensive hardware or upgrades necessary! Easily transported and minimal setup time. Features extruded aluminum articulating arms, molded ABS plastic stereo head, chrome surface mirrors, and soft rubber viewing mask.

ScreenScope for LCD Monitor 5 lbs.	**51054**	**$338.00**



Contour Kit
5525

Demonstrates how contour lines are used to show elevations on maps.

Various elevation lines are drawn on the side of the box. As the box is filled with water to the various elevations, the water line on the model is traced on the plastic lid to show a contour line for each elevation.

Contour Kit 11 oz.	**09779**	**$24.95**
	5+	**$22.95**

MyTopo Terrain Navigator DVDs
page 38

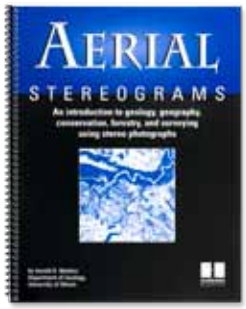
Aerial Photo Chain Scale
5895

Excellent for foresters, surveyors and others wishing to read aerial photos and maps in chains. White vinyl. Measures 6-1/4″L x 1″W.

Aerial Photo Chain Scale 1 oz.	**47215**	**$2.50**

Graduated on both sides

Scale	1″ =	Reads in:
1: 12,000	1″ = 15 chains	Chains
1: 15,840	1″ = 20 chains	Chains
1: 20,000	1″ = 25 chains	Chains, Inches, Inches to 10ths



Book of Aerial Stereo Photographs
5864

By Harold R. Wanless, Department of Geology, University of Illinois. A portfolio of 92 selected aerial photographs for the three-dimensional study of cultural features, landforms, rock structure, vegetation, soil types, and conservation. Shows elevations, depressions, and contours of natural terrain. 8-1/2″ x 11″. Spiral bound, softcover. 92 Pages.

Book of Aerial Stereo Photographs 13 oz.	**51095**	**$18.75**
Student Model Pocket Stereoscope 3 oz.	**51159**	**$9.10**
	10+	**$8.10**

Topographic Map Reading Kit
3686

Ideal for demonstrating different methods of map reading.

An excellent hands-on learning tool, this kit includes three map formats on vacuum-formed contour models: a flat topographical map, the same map in raised relief, and an unprinted raised relief map of the same area. A fourth panel features a map legend. The kit also includes a 22-page teacher's guide which features nine activities, vocabulary, and black-line masters. For grades 6 through 12.

Topographic Map Reading Kit 2 lbs.	**36970**	**$37.75**

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Planix Digital Planimeters

5856

Determine areas on maps, blueprints, photographs, and drawings quickly and accurately!

Selectable readout in cm^2 or in^2. Displayed measurements are frozen by locking the "hold" key or accumulated by releasing it. Push button averaging of multiple measurement and push button zero reset. A rechargeable Ni-Cad battery provides up to 30 hours of operation. Automatic battery power saving function turns unit off after three minutes of dormancy. Carrying case included with each planimeter.

Planix 6 Linear-Roller Type

For measuring prolonged area. Carrying case included.

Planix 6 Linear-Roller Type	C	3 lbs.	**45087**	**$795.00**
Replacement Battery for Planix 6 (Serial Number 3071+) and Planix 7 (Serial Number 19500+)		1 oz.	**45083**	**$45.75**

Topcon® KP-N Series Planimeters
www.forestry-suppliers.com

Sokkia Planix 10S "Marble" Digitizing Area Line Meter
www.forestry-suppliers.com

Planix 7 Digital Planimeter

A very precise instrument for quick and accurate determination of areas on blueprints, maps, photographs, and drawings. Simply follow the outline of the area with the tracer. The revolution of the measuring wheel to either direction is sensed by the electro shaft-encoder which generates pulses to be processed by the built-in processor.

- Cordless operation – powered by rechargeable Ni-Cad battery!
- Direct digital readout of traced area in unit you select – cm^2, m^2, km^2, in^2, ft^2, or acres. No table references, no calculations.
- Accumulative measurement of different areas.
- Push button averaging of several measurements of the same area.
- "Hold" function freezes readout to prevent accidental loss of result.
- Measures drawings when vertical scale differs from horizontal scale.
- Zero setting by push button.

Automatic area computation by selected scale factors. Scale factor is stored when switch is turned off. Metric or English scale convertible can be displayed in terms of cm^2, m^2, km^2, in^2, ft^2, or acre. When a certain area cannot be covered by cm^2 display due to overflow, the display unit shifts automatically to m^2, and then to km^2. Likewise, the shift is made from in^2 to ft^2, and then to acre. The same area measured several times may be averaged by a single push button. The measured figure on the display is frozen by a "hold" button to prevent an inadvertent loss of the result. When the previous measurement frozen on the display by the "hold" button is released, accumulative measurements are made on top of it. Carrying case included.

Planix 7 Digital Planimeter with rollers	C	3 lbs.	**45088**	**$920.00**
Replacement Battery for Planix 6 (Serial Number 3071+) and Planix 7 (Serial Number 19500+)		1 oz.	**45083**	**$45.75**

	Measuring Range	Resolution	Accuracy	Power	Dimensions	Carrying Case
Planix 6	14″ (356 mm) diameter circle, unlimited length	one digit equals 0.1 cm^2 or 0.01 in^2	better than ±0.2%	DC rechargeable Ni-Cad battery, AC adapter/charger, 120 VAC, 60 Hz. (included)	5.9″ x 9.4″ x 1.5″	included
Planix 7	11.8″ width x unlimited length, 11.8″ dia. circle	one digit corresponds to 0.1 cm^2 or 0.01 in^2	better than ±0.2%	rechargeable Ni-Cad battery (included) provides 30 operating hours; AC adapter/recharger	5.9″ x 1.5″ x 9.4″	included

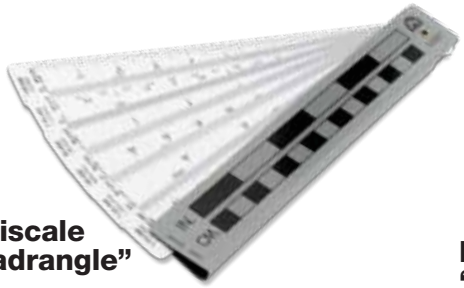
Dual-Faced Map Measurer

6814

English/Metric

Graduated in inches (1/2″ = 1′; 1/4″ = 1′; 1/8″ = 1′; 1/16″ = 1′) on one side and in inches and centimeters (36″ = 92 cm) on the other side. Precision measurement forward or backward. Features automatic reset and includes a protective, vinyl sheath.

Dual-Faced Map Measurer	C	2 oz.	**45257**	**$36.75**
			5+	**$33.50**



Multiscale "Quadrangle"

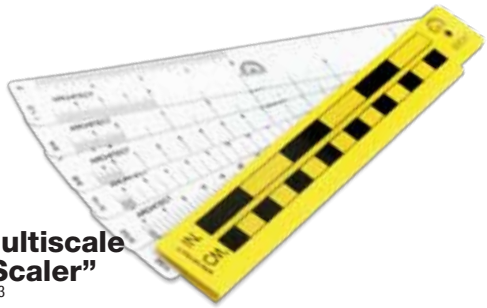
5894

Ultimate pocket-sized set of map scales. Includes the 12 commonly used map scales for measurement of distances on topographic quadrangle maps and aerial photographs used worldwide. Consists of six leaves, precision printed both sides on white laminated vinyl. Silver gray vinyl jacket. Each scale reads directly in feet, miles, meters, and chains.

Multiscale "Quadrangle"	C	1 oz.	**47208**	**$13.95**
			6+	**$11.95**

Scale Ratios	Legend
1:10,000	10 cm = 1 km
1:12,000	1″ = 1,000′
1:15,840	4″ = 1 mile
1:24,000	1″ = 2,000′
1:25,000	4 cm = 1 km
1:50,000	2 cm = 1 km
1:62,500	1″ = 1 mile
1:63,360	1″ = 1 mile
1:100,000	1 cm = 1 km
1:125,000	1″ = 2 miles
1:250,000	1 cm = 2.5 km, 1″ = 4 miles
1:500,000	1 cm = 5 km, 1″ = 8 miles

C Combination English and Metric



Multiscale "Scaler"

5893

Unique pocket-sized set that includes all 24 standard architect and English/Metric engineer scale ratios. The equivalent of three triangular scales in one package. Consists of six leaves, precision printed both sides on white laminated vinyl. Yellow vinyl jacket.

Multiscale "Scaler"	C	1 oz.	**47213**	**$13.95**
			6+	**$11.95**

Multiscale "Scaler" Scale Ratios

Architect English	Engineer English	English/Metric
inches/foot	parts/inch	parts/meter
3	10	20
1-1/2	20	33-1/3
1	30	40
3/4	40	50
1/2	50	80
3/8	60	100
1/4		
3/16		
1/8		
3/32		
1/16		
1/32		

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Scale Master Pro® XE Advanced Linear Digital Plan Measurer

5897

The Scale Master® Pro XE makes it easy to do Linear, Area and Volume takeoffs with speed, accuracy and confidence when estimating, bidding or planning. Use it on plans, blueprints and maps as well as out of scale drawings. It has 91 built-in Scales; 50 Imperial (Feet-Inch) units and 41 Metric, (including ten custom scales for out-of-scale drawings) for maximum versatility with architectural, engineering and civil scales. Also includes ten "custom" scales: 5 each for Imperial and Metric units, lets you "roll" or define any scale, even from plans that have been reduced, enlarged or are out of scale. Permanently store the new scale for future use. Other features include dedicated length, width and height keys; Auto Count; count while rolling; constant (+K) Key allows you to add (or subtract) a constant value to the distance measured; lock switch; Imp-Met Switch instantly changes to working in Imperial or Metric units; Subtract Key for deducting rolled distances; and an Accumulating (M+) Memory. The included PC Interface cable lets you transfer rolled values from the Scale Master® Pro XE directly into commonly used spreadsheets or estimating programs, saving countless keystrokes, saving time and reducing the potential for costly transcribing errors. Includes a hard cover protective case, a multi-language User Guide on CD-ROM, two CR-2032 long-life lithium batteries, a full 1-Year limited warranty from the manufacturer and a 15′ USB cable.

Dimensional Units include: Decimal Feet, Feet-Inches, Decimal Yards-Feet-Inches, Miles, Nautical Miles, Acres, Millimeters, Meters, Kilometers, and Hectares – most available in square and cubic formats. **Size:** 7.3″ x 1.9″ x 0.6″. **Product Weight (product only with battery):** 2.1 oz. **Power:** Two 3-volt lithium (CR-2032) batteries (included). **Display Type:** LCD segment; 7 Digit main display, 3 Digit count, 5 Digit scale display, with Annunciator-legends. **Display Dimensions:** Upper, 0.62″ x 1.22″; Lower, 0.79″ x 1.22″. **Accuracy:** 2-4%, based on user's start & stop accuracy; 12 digit internal accuracy. **Wheel Resolution:** 0.025″.

Ultra Scale Master Pro XE Advanced Linear Digital Plan Measurer	13 oz.	**45250**	**$105.95**

1 Manufacturer's Warranty 1 Year

Scales for Scale Master Pro XE Engineering

Engineering	Eng./Map	Architect	Map	Metric		
1″= 10′	1″= 300′	1/32″= 1′	1″= 1.0 Mi.	1:1	1:150	1:10k
1″= 20′	1″= 333.3′	1/16″= 1′	1″= 1.5 Mi.	1:2	1:200	1:12.5k
1″= 30′	1″= 400′	3/32″= 1′	1″= 2.0 Mi.	1:3	1:250	1:20k
1″= 40′	1″= 416.6′	1/8″= 1′	1″= 3.0 Mi.	1:4	1:300	1:25k
1″= 50′	1″= 500′	3/16″= 1′	1″= 4.0 Mi.	1:5	1:400	1:50k
1″= 60′	1″= 583.3′	1/4″= 1′	1″= 5.0 Mi.	1:10	1:500	1:100k
1″= 83.3′	1″= 600′	3/8″= 1′	1″= 6.0 Mi.	1:20	1:1,000	1:125k
1″= 100′	1″= 625′	1/2″= 1′	1″= 10.0 Mi.	1:25	1:1,250	1:200k
1″= 166.6′	1″= 666.6′	3/4″= 1′	1″= 20.0 Mi.	1:30	1:1500	1:250k
1″= 200′	1″= 750′	1″= 1′	1″= 24.0 Mi.	1:40	1:1625	1:500k
1″= 250′	1″= 1,000′	1-1/2″= 1′	1″= 25.0 Mi.	1:50	1:2000	1:1,000k
	1″= 1,200′	2″= 1′		1:75	1:2,500	1:2,000k
	1″= 2,000′	3″= 1′		1:100	1:5000	1:2,500k
	1″= 3,000′	4″= 1′		1:125	1:6000	

Scale Master Pro® Digital Plan Measurer

5897

Quickly and accurately measure any line or perimeter of irregular shapes with ease. Scale any map, photo or plan in seconds, plus find rectangular area and volume with the touch of a button. The Scale Master Pro has 72 built-in scales including 39 imperial (feet-inch) and 33 metric scales plus six custom scales for enlarged/reduced plans that you can set yourself. The imperial/metric mode switch allows you to switch between English and metric easily. Measuring units include decimal feet, feet-inches, decimal inches, yards, acres (square only), plus millimeters, meters, and kilometers in both square and cubic formats. Large LCD clearly displays current scale, units, counts, and more plus read out in seven digits. Adds while rolling forward or backward. Subtracts when special key is depressed. Built-in push-button counter totals and registers to 999,999. Features memory and auto shut-off after five minutes. Includes instruction manual, carrying case, and two long-life lithium batteries. **Dimensions:** 7.3″ x 1.9″ x 0.6″. **Resolution:** 0.025″.

Scale Master Pro	C	7 oz.	**45253**	**$72.90**
			3+	**$68.00**

Scales for Scale Master Scaler

Engineering	Eng./Map	Architect	Metric	
1″= 10′	1″= 300′	1/32″ = 1′	1:1	1:250
1″= 20′	1″= 333.3′	1/16″= 1′	1:2	1:300
1″= 30′	1″= 400′	3/32″= 1′	1:3	1:400
1″= 40′	1″= 416.6′	1/8″= 1′	1:4	1:500
1″= 50′	1″= 500′	3/16″= 1′	1:5	1:1,000
1″= 60′	1″= 583.3′	1/4″= 1′	1:10	1:1,250
1″= 83.3′	1″= 600′	3/8″= 1′	1:20	1:1500
1″= 100′	1″= 625′	1/2″= 1′	1:25	1:1625
1″= 166.6′	1″= 666.6′	3/4″= 1′	1:30	1:2000
1″= 200′	1″= 750′	1″= 1′	1:33	1:2,500
1″= 250′	1″= 1,000′	1-1/2″= 1′	1:40	1:5000
	1″= 1,200′	3″= 1′	1:50	1:6000
	1″= 2,000′	4″= 1′	1:75	1:10k
	1″= 3,000′		1:100	1:12.5k
			1:125	1:20k
			1:150	1:25k
			1:200	1:50k

Scalex PlanWheel™ XLU 2 Plan/Map Scaler

5898

Features a bidirectional wheel which adds when moved forward and subtracts when moved backwards, convenient buttons on the probe for counting items and adding fixed lengths as you scale, and a large, easy-to-read LCD which displays length, count, and scale factor simultaneously. It also measures in ft., yds., mi., in., km, m, or cm, calculates square/cubic dimensions of areas/volumes; and automatically shuts-off after periods of dormancy. And, thanks to the scaler's 111 built-in scale factors, you're certain to find nearly any architectural, engineering, mapping, or metric scale factor you'll need; or, if you prefer, you can create your own factors using any of the three built-in, user-defined scale factors. Built-in USB interface. **Accuracy:** ±0.25%. **Resolution:** 1.0 mm/0.04″. **Batteries:** two AAA (included). **Dimensions:** 6-3/4″L x 1-1/4″W.

PlanWheel XLU 2 Plan Scaler	C	4 oz.	**45251**	**$72.95**
AAA cell, pack of 4		2 oz.	**02362**	**$3.25**

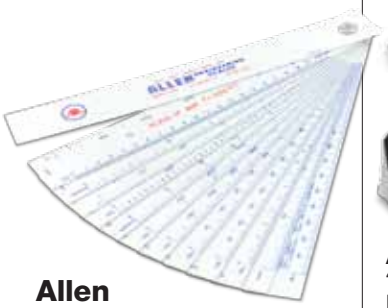
Scales for Scalex PlanWheel™ XLU 2 Plan/Map Scaler

Metric			Engineering		Map	Architectural
Group 1	Group 2	Group 3	Group 4	Group 5	Group 6	Group 7
1:1	1:100	1:1000	1″= 10′	1″= 100′	1″= 1000′	1/32″=1′
1:2	1:125	1:1250	1″= 20′	1″= 166.6′	1″= 1200′	1/16″=1′
1:3	1:150	1:1500	1″= 30′	1″= 200′	1″= 1500′	3/32″=1′
1:4	1:200	1:1625	1″= 40′	1″= 250′	1″= 2000′	1/8″=1′
1:5	1:250	1:2000	1″= 50′	1″= 300′	1″= 2500′	3/16″=1′
1:10	1:300	1:2500	1″= 60′	1″= 333.3′	1″= 3000′	1/4″=1′
1:20	1:400	1:3000	1″= 70′	1″= 400′	1″= 3500′	3/8″=1′
1:25	1:500	1:3500	1″= 80′	1″= 416.6′	1″= 4000′	1/2″=1′
1:30	1:600	1:4000	1″= 83.3′	1″= 500′	1″= 4500′	3/4″=1′
1:33	1:700	1:4500	1″= 90′	1″= 583.3′	1″= 5000′	1″=1′
1:40	1:800	1:5000		1″= 600′	1″= 5500′	1-1/2″=1′
1:50	1:900	1:5500		1″= 625′	1″= 6000′	2″=1′
1:60		1:6000		1″= 666.6′	1″= 6500′	3″=1′
1:70		1:6500		1″= 700′	1″= 7000′	4″=1′
1:75		1:7000		1″= 750′	1″= 7500′	User Scale #1
1:80		1:7500		1″= 800′	1″= 8000′	User Scale #2
1:90		1:8000		1″= 850′	1″= 8500′	
		1:8500		1″= 900′	1″= 9000′	
		1:9000		1″= 950′	1″= 9500′	
		1:9500				

C Combination English and Metric

[search engine powered by magazooms.com]

Sheet Holders
page 20



Allen Engineering Scales
5891

For use on maps in posting oil wells, towers, buildings, and tracts of land. White plastic leaves hinged at one end. Contains 23 leaves with 48 scales. 1″x 7-7/8″x 1/4″ folded. Complete with case.

Allen Engineering Scales
2 oz. **47204** **$19.95**

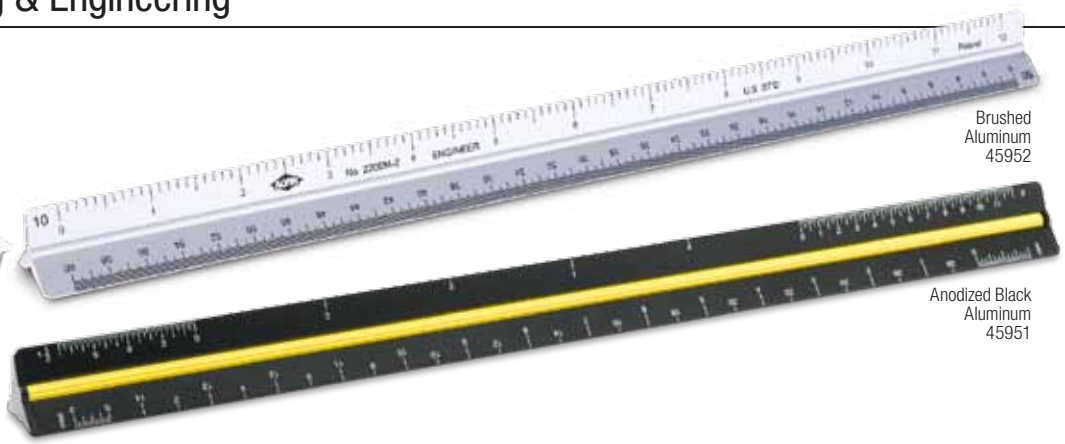
Leaf	Inch Scale	Reading In
1	1″=1,000 Ft.	Feet/Varas
2	1″=1,000 Ft.	Chains/Arpents
3	1″=1,000 Ft.	Rods/Feet
4	1″=2,000 Ft.	Feet/Varas
5	1″=2,000 Ft.	Chains/Arpents
6	1″=3,000 Ft.	Feet/Varas
7	1″=4,000 Ft.	Feet/Varas
8	1″=500 Ft.	Feet/Varas
9	1″=600 Ft.	Feet/Varas
10	1″=8,000 Ft.	Feet/Varas
11	1″=1 Mile	Feet/Varas
12	2″=1 Mile	Feet/Varas
13	3″=1 Mile	Feet/Chains
14	4″=1 Mile	Feet/Varas
15	1″=1,000 Varas	Feet/Varas
16	1″=2,000 Varas	Feet/Varas
17	1″=300 Varas	Feet/Varas
18	1″=400 Varas	Feet/Varas
19	1″=500 Varas	Feet/Varas
20	1″=600 Varas	Feet/Varas
21	1″=800 Varas	Feet/Varas
10A	5″=1 Mile	Feet/Varas
11A	1″=1,200 Ft.	Feet/Varas
	1″=660 Ft.	Feet/Varas

4″ Miniature Triangle Scales
5931

Handy 4″ pocket-size triangle scales are engraved with sharp black divisions that won't rub off. Easy-to-read graduations. Protective vinyl sheath included.

4″ Engineer - graduations 10 to 60
1 oz. E **45978** **$14.25**

4″ Metric - graduations cm 100 to 600
1 oz. M **45979** **$15.95**



Alvin® Aluminum Triangular Scales
4383

High quality aluminum scales with large profile and tapered edges. Supplied in a hard plastic case. Architect or Engineer Scales in either brushed anodized aluminum or black anodized aluminum.

Brushed Anodized Aluminum Triangular Scale
Features a solid core and graduations printed in black.

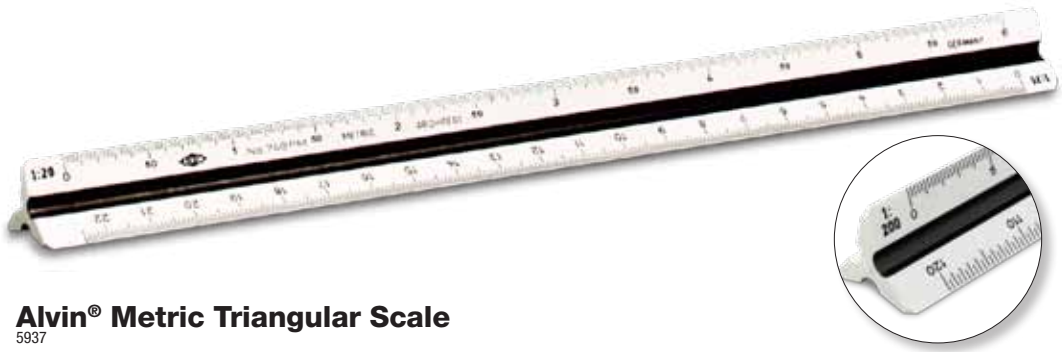
Black Anodized Aluminum Triangular Scale
Features a hollow core and graduations printed in white with color inlaid furlows.

Model	Type	Graduations		Weight	SN	$
Brushed Aluminum	12″ Engineer	10, 20, 30, 40, 50, 60 parts to the inch	E	5 oz.	**45952**	**$18.25**
Anodized Black Aluminum	12″ Engineer	10, 20, 30, 40, 50, 60 parts to the inch	E	5 oz.	**45953**	**$19.95**
	12″ Architect	3/32, 3/16, 1/8, 1/4, 1/2, 1, 3/8, 3/4, 1-1/2, 3″ to the foot; one edge graduated to 16ths.	E	5 oz.	**45951**	**$19.95**

Koh-I-Noor® Rapidograph® Triangular Scales
5936

Six edges – white with black graduations. Won't roll or slide off your desk. Available in Professional and Economy models. The Professional Models are made of unbreakable, dimensionally stable, professional grade plastic and come with a protective case.

Model No.	Type	Graduations		Weight	SN	Each
8230-A12	12″ Architect	3, 1-1/2, 3/4, 3/8, 3/16, 3/32, 1, 1/2, 1/4, 1/8 inch per foot, one bevel in 1/16 inch	E	4 oz.	**45931**	**$27.50**
3276-E12	12″ Engineer	grooved: 1/10, 1/20, 1/30, 1/40, 1/50, 1/60 inch	E	4 oz.	**45974**	**$22.50**
8230-E12	12″ Engineer	1/10, 1/20, 1/30, 1/40, 1/50, 1/60 inch	E	4 oz.	**45973**	**$27.50**
3274	12″ Engineer	1/10, 1/20, 1/30, 1/40, 1/50, 1/60 inch	E	2 oz.	**45972**	**$6.95**



Alvin® Metric Triangular Scale
5937

Professional metric triangular scales with non-reflecting, durable matte finish on white plastic. Precision engraved graduations and divisions plus colored furrows for easy scale identification.

Model No.	Type	Graduations		Weight	SN	Each	6+
740PM	30 cm Architect	1:20, 1:25, 1:50, 1:75, 1:100, 1:125	M	3 oz.	**45980**	**$15.95**	**$13.95**
742PM	30 cm Engineer	1:100, 1:200, 1:250, 1:300, 1:400, 1:500	M	3 oz.	**45981**	**$15.95**	**$13.95**

E English M Metric

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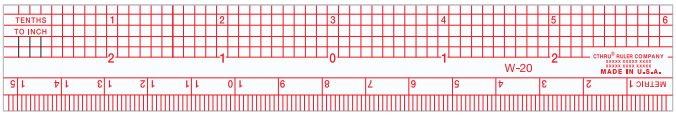
6″ Ruler
5926

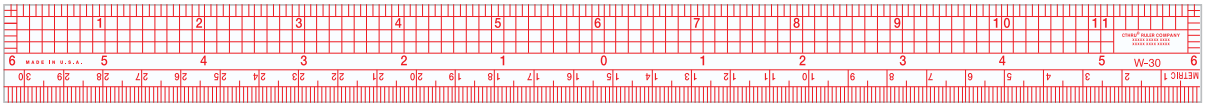
English/Metric

15 cm/6″ long with mm and cm one edge, inches and 10ths other edge. Plastic.



6″ Ruler	C	1 oz.	**47450**	**$1.35**

12″ Ruler
5927



English/Metric

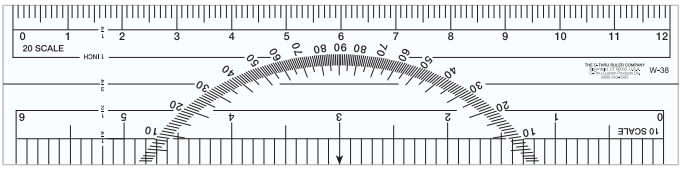
30 cm/12″ long with mm and cm one edge, inches and 16ths other edge. Plastic.

12″ Ruler	C	1 oz.	**47460**	**$1.60**

6″ Protractor Ruler
5928

English

Protractor, plus inches to 10ths one edge,
inches to 20ths opposite edge. 1-1/2″ x 6″. Plastic.

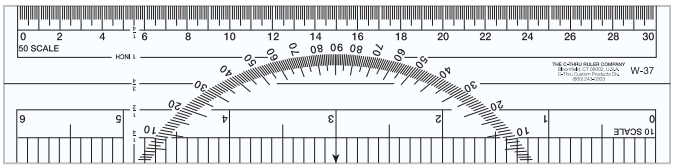


6″ Protractor Ruler	E	1 oz.	**47420**	**$2.25**

6″ Protractor Ruler
5930

Decimal

Inches to 10ths on one edge; inches to 50ths on the other edge.
1-1/2″ x 6″. Plastic.

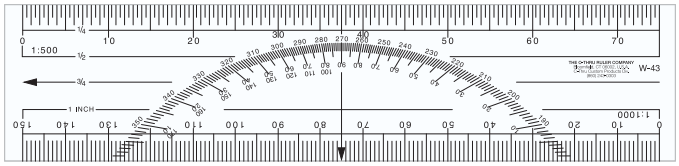


6″ Protractor Ruler	E	1 oz.	**47161**	**$2.25**

Protractor Ruler
5929

Metric

Protractor ruler with 1:500 and 1:1000 metric scales reading direct in meters.
1-1/2″ x 6″. Plastic.



Protractor Ruler	M	1 oz.	**47162**	**$2.25**

Four Bevel Scale
5935

Four scale faces on a single flat rule. Fits conveniently in your pocket.

Pocket Scale – white plastic. Graduations: 10, 20, 40, and 50 parts per inch; Length: 6″.	E	1 oz.	**47267**	**$13.50**
			6+	**$11.50**

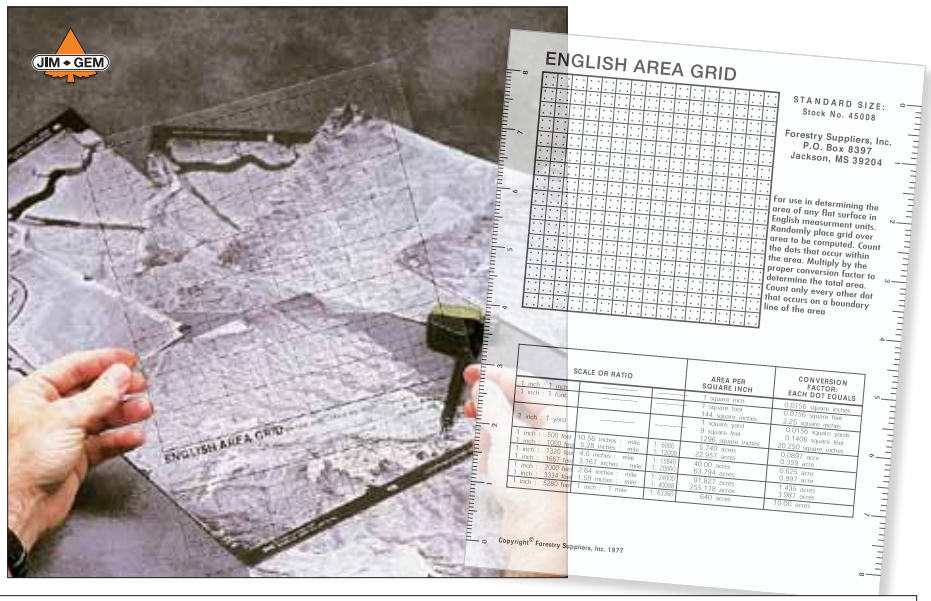
JIM-GEM® English Area Grid
5900

Use to determine the area of any flat surface in English measurement units.

Scales and ratios include the following:

1 in.: 1 in
1 in.: 1 ft.
1 in.: 1 yd.
1 in.: 500 ft. = 10.56 ins.: mi. = 1:6,000
1 in.: 1,000 ft. = 5.28 ins.: mi. = 1:12,000
1 in.: 1,320 ft. = 4.0 ins.: mi. = 1:15,84
1 in.: 1,667 ft. = 3.167 ins.: mi. = 1:20,000
1 in.: 2,000 ft. = 2.64 ins.: mi. = 1:24,000
1 in.: 3,334 ft. = 1.58 ins.: mi. = 1:40,000
1 in.: 5,280 ft. = 1 in.: mi. = 1:63,360

Two edge scales (inches to tenths and inches to 16ths) are included. It may also be used with any other map scale, but first you must figure the conversion factor. Available in standard size or super size.



Standard Size 7″ x 9″ with 4″ x 4″ work area	2 oz.	**45008**	**$6.25**
Super Size 9″ x 12″ with 8″ x 8″ work area	3 oz.	**45009**	**$7.95**

How To Use the English Area Grid –
To use, randomly place grid over area to be computed and count the dots falling within that area. Count every other dot that falls on the boundary of the area. Multiply the number of dots counted by the proper conversion factor for the scale you are using to obtain total area.
This can be done using any map scale.

Example: Using a map scale of 1″= 1,320 ft. $1{,}320^2$ = 1,742,400 sq. ft./sq. in. of area grid. 1,742,400 ÷ 43,560 sq. ft. per acre = 40 acres/sq. in. of area grid. 40 acres ÷ 64 dots per sq. in. of area grid = 0.625 acres per dot conversion factor. Each dot represents 0.625 acres. If the dot total of an area is 50 dots, multiply 50 by the conversion factor. 50 x 0.625 = 31.25 acres within area.

E English M Metric
C Combination English and Metric

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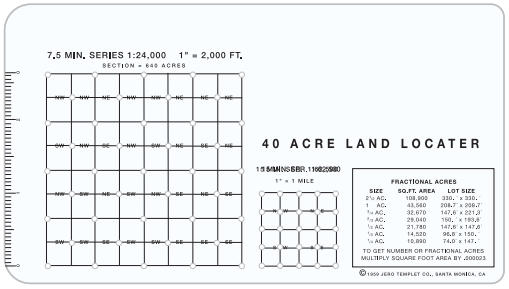
Counter-Pen™
8399

A marker and digital counter combined in one housing designed for the lab and plant. Each time a black mark is made with the felt-tipped pen, it automatically sounds a beep and the LCD displays the counts. Provides audio/visual counts to 99999 with reset button, on/off switch, and pen cap. Made of durable ABS plastic. 6″ x 2/3″.

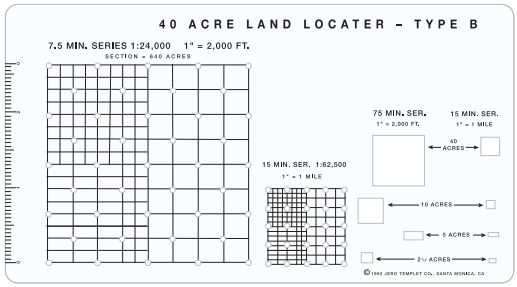
Counter Pen	2 oz.	**53036**	**$17.95**
Repl. Ink Cartridge, Green	1 oz.	**53037**	**$6.75**
Optional Ink Cartridge, Black	1 oz.	**53038**	**$6.75**



Type A 40-Acre Land Locator
5911

Two scales, 1″ = 2,000 ft. (1:24,000) and 1″ = 1 mile (1:62,500), to fit standard detail maps used by the USGS. Holes punched to mark 40 and 10 acre boundaries with pencil or ball pen and from which smaller parcels may be located. Includes a fractional acres reference table showing square foot areas of various fractional acres, approximate lot sizes, and formula for conversion of acreage, or fractional acres, of a given measurement for a parcel of land. Template is 3-5/8″ x 6-5/8″. Stiff frosted plastic.

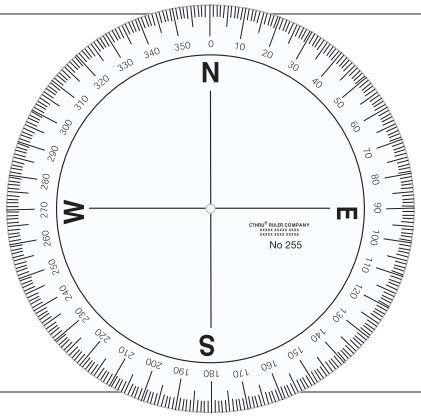
40-Acre Land Locator	1 oz.	**45660**	**$9.95**

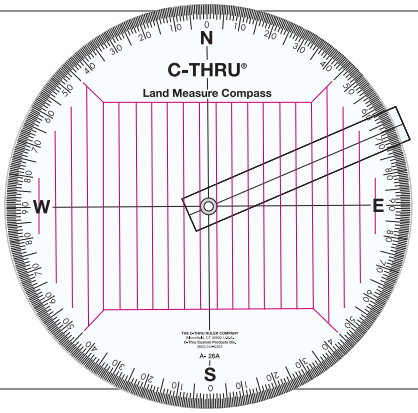


Type B 40-Acre Land Locator
5910

In addition to features found in 45660, square holes appear as cutouts in sizes of 2-1/2, 5, 10 and 40 acres. These cut-outs are on both scales, 1″ = 2,000 ft. (1:24,000) and 1″ = 1 mile (1:62,500), and make it easy to draw exact size and location of any area on pinpointed map. Template is 3-5/8″ x 6-5/8″. Frosted plastic.

40-Acre Land Locator	1 oz.	**45661**	**$10.95**





Azimuth Compass Protractor
5921

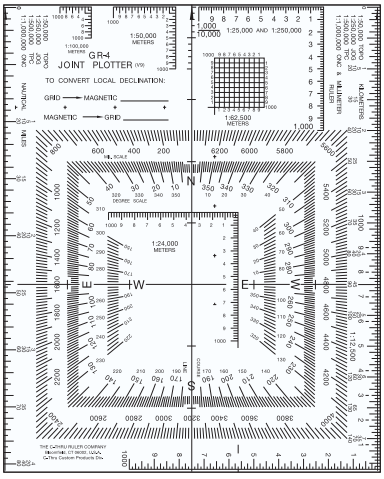
Helpful in map reading and navigation. Made of clear plastic, 3-1/2″ in diameter Graduated 0-360° in 1° increments. 3-1/2″ Diameter. Transparent plastic.

Azimuth Compass Protractor	1 oz.	**47954**	**$1.50**

Land Measure Compass
5920

Land measure compass with cursor arm enables you to lay out a property description. 360° Divided into four 0-90° quadrants. 5″ Diameter. Transparent plastic.

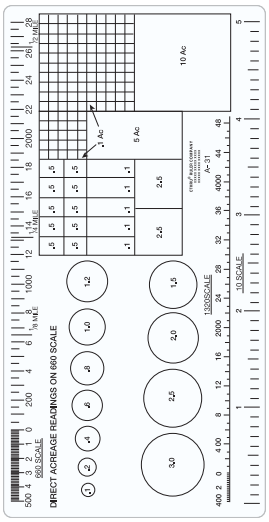
Land Measure Compass	1 oz.	**47922**	**$5.50**



UTM Joint Plotter
4302

Transparent and laminated. **Includes the following scales:** 1:24,000, 1:25,000, 1:50,000, 1:62,500, 1:100,000, 1:250,000, 1:50,000 TOPO, 1:250, 000 JOG, 1:500,000 TPC and 1:1000,000 ONC. Other features include a millimeter ruler, a 360° protractor and it is scaled in nautical miles.

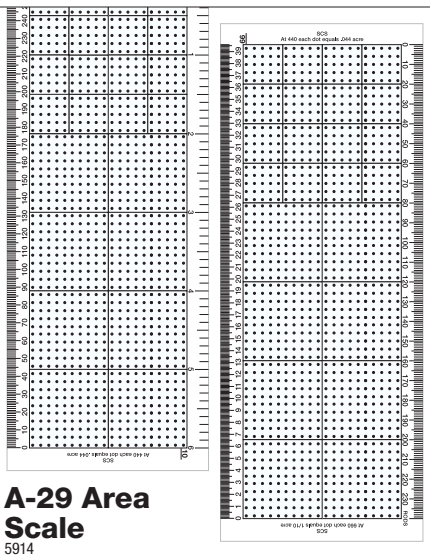
UTM Joint Plotter	1 oz.	**45671**	**$5.95**



A-31 Area Scale
5908

For quick plotting, detail drawing, estimating number of acres in given irregular area, and accurate measurement of land. For abstractors, surveyors, and land/tax appraisers. **Scales:** 1″ = 660′, 8″ = 1 mile, 1 sq. inch = 10 acres, inch scale in tenths, and a 1:1320 scale. Template is 5″ x 2-3/4″. Transparent plastic.

Area Scale	1 oz.	**45290**	**$3.95**



A-29 Area Scale
5914

Easy to read scale with the following calibrations: 1″ = 660′ = 1/8 mile; 1″ = 40 rods; 1″ = 440′ = 1/12 mile; 1″ = 10/tenths. Equal dotted squares – 1 dot = 0.1 acre at 660 scale. 1 dot = 0.044 acre at 440 scale. Template is 2–1/2″ x 6-3/8″.

Area Scale	1 oz.	**45285**	**$4.50**
		12+	**$3.95**

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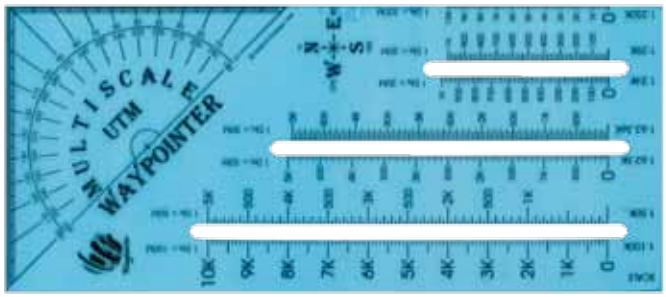
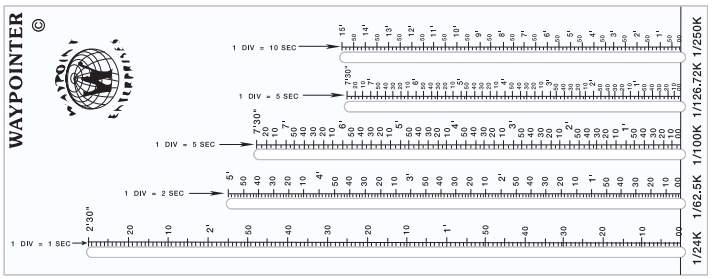


Multiscale UTM Waypointer
6816

Metric

A handy tool for determining and plotting UTM coordinates on USGS and Canadian topographic maps. Seven different UTM scales can be read and plotted (1:100K, 1:50K, 1:62.5K, 1:63.36K, 1:24K, 1:25K, and 1:250K). Use protractor for plotting headings. Includes instructions and hands-on examples with enclosed sample map. 2-7/8″ x 6-1/2″. Plastic.

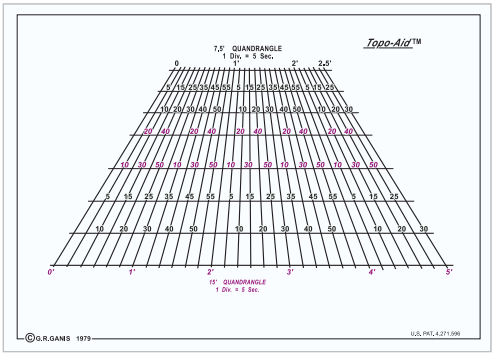
Multiscale UTM Waypointer	M	1 oz.	**45664**	**$9.50**



Waypointer Scale
5917

Use this easy-to-read scale to quickly and accurately determine or plot longitude or latitude coordinate locations for use as waypoint data in GPS receivers or for accurately map plotting coordinates taken from GPS receivers. Features appropriate scales for use with the following maps: 1:24,000 scale, 7-1/2 minute topos; 1:62,500 scale, 15 minute topos; 1:100,000 scale, 30′ x 60′ topo (BLM); 1:250,000 scale, 1° and 2° Series; and 1:126,720 (1/2″ =1 mile) scale U.S. Forest maps. Clear, heavy duty, 0.03″ vinyl. Includes instructions. Scale is 3-1/2″ x 9″.

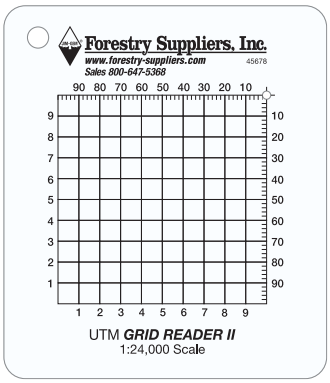
Waypointer Scale		1 oz.	**45657**	**$10.75**



Forestry Suppliers' Topo Aid
5922

Quickly determines longitude and latitude of any point on USGS 7.5- and 15-Minute Topographic Maps. Accurate to the nearest second on 7.5-minute maps and 5 seconds on 15-minute maps. Constructed of heavy 40-mil plastic for holding maps down flat. 8″ x 11″.

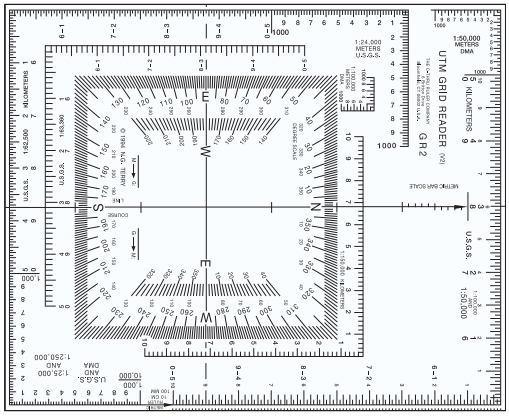
Forestry Suppliers' Topo Aid	4 oz.	**45675**	**$12.95**
		10+	**$11.50**



Forestry Suppliers' UTM Grid Reader II
5918

Utilizes the Universal Transverse Mercator System! Used to find and plot coordinates, measure distances in feet, estimate surface area in acres, and aid in finding slope on a topographic map. Enlarged templates on the outside margins and values printed on the grid lines on three sides for easier counting. Transparent template is designed for use with a 1:24,000 Scale USGS topographic map. Made of two pieces of rugged, laminated vinyl. 0.040″ thick.

Forestry Suppliers' UTM Grid Reader II, 2-1/2″ x 2-3/4″	1 oz.	**45678**	**$11.95**



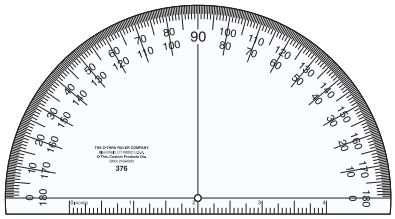
UTM Grid Reader
4301

Transparent Grid Reader is laminated for durability. Features the following scales: 1:24,000, 1:62,500, 1:25,000, 1:250,000, 1:50,000, 1:100,000, 1:150,000 and 1:63,360. A full 360° protractor is also incorporated.

UTM Grid Reader	1 oz.	**45670**	**$5.95**

Protractors and Circles
5938

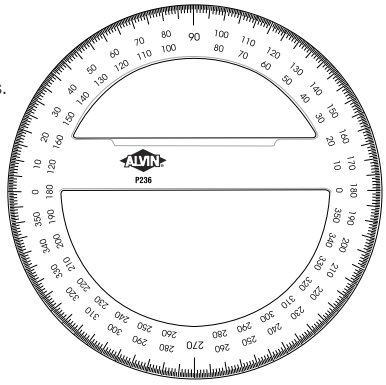
Professional quality, finely graduated acrylic protractors and circles. Available in solid center or cut-out center styles.



Solid Center Protractor

Measures 180° with 1/2° graduations. 6″ Diameter.

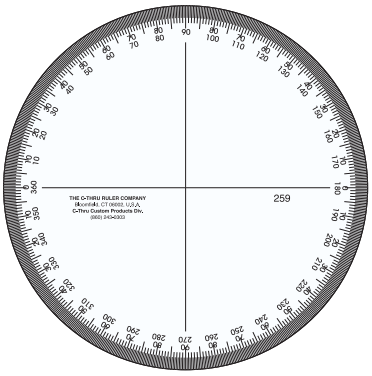
Solid Center Protractor	1 oz.	**47897**	**$1.50**



Cut-Out Center Circle

Measures 360°, with 1/2° graduations. 6″ Diameter.

Cut-Out Center Circle	2 oz.	**47956**	**$3.75**



Solid Center Circle

Measures 360° with 1/2° graduations. 4″ Diameter.

Solid Center Circle	1 oz.	**47898**	**$1.95**

M Metric

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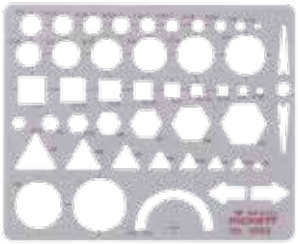
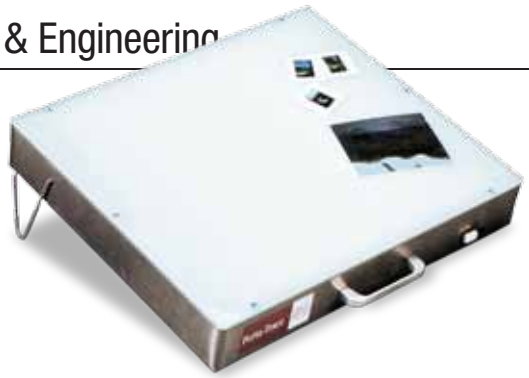


General Purpose Template
5941

Includes circles, squares, hexagons, triangles, arrows and rectangles. **Size:** 4-7/8″ x 6-1/8″ x 0.030″ thick.

General Purpose Template 1 oz.	**47120**	**$9.25**



Porta-Trace® Portable Light Tables
5960

Great for drafting, viewing transparencies, tracing, graphic arts, inspection, photography, etc.

Shatter-resistant opal Plexiglass top gives maximum light diffusion, minimum glare. Rust-resistant stainless steel frame. Flush top permits use with drawings larger than unit. Warm surface dries ink rapidly, yet prevents overheating. No starters to burn out. Rubber feet prevent slipping. Each unit has 6′, three-wire electric cord with grounding plug. Built-in stop-start switch. Feature color corrected lamps. UL Listed.

Overall Size	Lamps	Performance		Weight	SN	$
11″ x 18-3/8″ x 2-1/8″	(2) 15 watt	Lighting strong and nearly uniform. With back leg so table can be tilted. Does not feature carrying handle.		7 lbs.	**49181**	**$191.25**
18″ x 24-3/8″ x 2-3/4″	(4) 20 watt	Two switches, each controlling one or two lamps, permit varying lighting. Uniform lighting.		15 lbs.	**49201**	**$482.95**
23-7/8″ x 36-3/8″ x 2-7/8″	(6) 20 watt	Most uniform lighting.	O	25 lbs.	**49216**	**$613.95**

Staedtler Pigment Liners
7130

Flow smoothly and evenly for sketching, drawing, or writing.

These permanent ink markers feature a metal clad tip to assure precise lines against tool edges. Other features include long write-out length and quick drying smear-free ink. Set of five includes the following widths: 0.05 mm, 0.1 mm, 0.3 mm, 0.5 mm, and 0.7 mm. Black ink.

Pigment Liners, Set of 5	2 oz.	**45633**	**$18.25**

Alvin® Engineer's Kit
8633

Kit includes: 12″ plastic engineer's fully divided triangular scale; practice cross section pad; 6″ compass; 6″ divider; 10″ 30°/60° triangle; 8″ 45°/90° triangle; 6″ protractor; 6-3/4″ french curve; soft pencil eraser; lead holder; mini lead pointer; erasing shield; three pack 2.0mm lead; and 12″ x 16″ mesh bag.

Model BDK-1E Engineer's Kit 1 lb.	**47006**	**$52.75**

Alvin® Draft/Matic Mechanical Pencils
8245

Perfect for drafting, drawing, or lettering.

These auto feed professional pencils are designed to provide comfortable writing control with minimal lead breakage. Features include rubberized barrels, knurled stainless steel finger grips, rotating lead degree windows, shock-absorbing reflex points, and a built-in eraser under the cap. A 4mm long stainless steel lead sleeve supports the lead to ensure drawing accuracy even when using thick straightedges.

0.5mm Draft/Matic Mechanical Pencil	1 oz.	**45870**	**$11.95**
		12+	**$10.95**
0.7mm Draft/Matic Mechanical Pencil	1 oz.	**45871**	**$11.95**
		12+	**$10.75**
Replacement Erasers, pack of 3	1 oz.	**45872**	**$1.35**

Alvin® Mechanical Pencil Leads

Long-lasting leads produce dense black lines that resist smearing and fading. Pack of 12.

HB, 0.5mm Lead	1 oz.	**45873**	**$1.35**
2H, 0.5mm Lead	1 oz.	**45874**	**$1.35**
HB, 0.7mm Lead	1 oz.	**45875**	**$1.35**
2H, 0.7mm Lead	1 oz.	**45876**	**$1.35**

SECO Plan Holder
4739

Hang this handy organizer on the back or front of any vehicle seat for storing job site materials! Features include slots that hold four 6″ Diameter plans, a front pocket for accommodating a note pad, phone or other small items, and a strap that holds pens, pencils, markers and other tools. **Color:** Blue.

SECO Plan Holder 14 oz.	**39201**	**$35.50**

Alvin® WorkMaster® Table
8627

This versatile table can be used as a drafting table, computer workstation, or reference table. The four-post table adjusts easily from the front or rear for a comfortable work angle. The angle adjusts from 0° to 40°, and the height adjusts from 29″ to 46″ in the horizontal position. Other features include a 12″ x 42″ storage shelf, warp-free white Melamine® tabletop, and a base of 1-1/2″ x 1-1/2″ heavy-gauge steel tubing. Counter-balance is not required when using a drafting machine. Manufacturer's lifetime warranty. Made in the USA.

Table with 36″ x 48″ Top 100 lbs.	F	**49275**	**$368.25**
Table with 37-1/2″ x 60″ Top 116 lbs.	F	**49276**	**$427.75**

O Ships at Oversize rate.
F Ships Motor Freight.

[search engine powered by magazooms.com]

SAFCO

Safco® Pivot Wall Rack
5970

Saves space without sacrificing easy access and convenience.

Mounts directly to wall and holds up to 12 hanging clamps. Steel construction. Mounting hardware included. Tropic Sand with baked enamel finish. Order clamps separately. 9-1/2″ x 24″.

Safco Pivot Wall Rack	19 lbs.	**49460**	**$230.00**
		2+	**$205.00**

Mayline® Wooden Plan Files and Drawer Units
forestry-suppliers.com

Safco® Mobile Stands
5969

This free-standing rolling file lets you take plans where you need them!

Steel construction with four ball bearing swivel casters (two lock). Holds up to 12 hanging clamps. The width is easily modified to fit 24″, 30″, or 36″ Hanging Clamps. Assembles quickly. Tropic Sand with baked enamel finish. Order clamps separately.

Model 5026 Mobile File Stand, Height adjusts from 43-5/8″ to 61-5/8″ to hold sheets up to 54″L. Base is 27″W and extends from 27-1/2″ to 37-1/2″.	50 lbs.	**49459**	**$486.00**
Model 5059 Mobile Vertical File Stand, Height adjusts from 40″ to 52″. Base extends from 27-1/2″ to 39-1/4″.	25 lbs.	**49465**	**$268.00**

Alvin® Tubular Roll File
8631

Ideal for storing and organizing rolled maps, plans, drawings, and tubes. Four swivel casters provide easy mobility. Constructed of black plastic-coated heavy-gauge steel rods and features 3/8″ diameter side tubes. Assembly required.

Model WRF40 – Features twenty 4″ x 4″ openings; Overall Dimensions: 30″H x 22″W x 18″D	10 lbs.	**49404**	**$57.50**

Safco® Hanging Clamps
5971

For use with Cubicle Wall Rack, Mobile Stand, and Pivot Wall Rack.

Aluminum clamps have plastic wing knobs to provide balanced gripping tension. Each clamp holds up to 100 sheets or 20 pounds. Natural color aluminum; wing knobs and end caps are black.

Pack of six 24″ Clamps	8 lbs.	**49461**	**$217.00**
Pack of six 30″ Clamps	9 lbs.	**49462**	**$243.00**
Pack of six 36″ Clamps	10 lbs.	**49463**	**$249.00**

Giant Stacking Trays
5973

Customize your storage space with these trays!

High-density polyethylene plastic with steel reinforcement for extra strength. The tray can be used alone or in combination with others up to 5 ft. high. Trays interlock when stacked. Two trays per carton. **Color:** White. **Outer dimensions:** 3″ x 45-1/2″ x 34″. **Inner dimensions:** 2″ x 42-1/2″ x 32-1/2″.

Giant Stacking Trays	36 lbs.	**94950**	**$165.95**

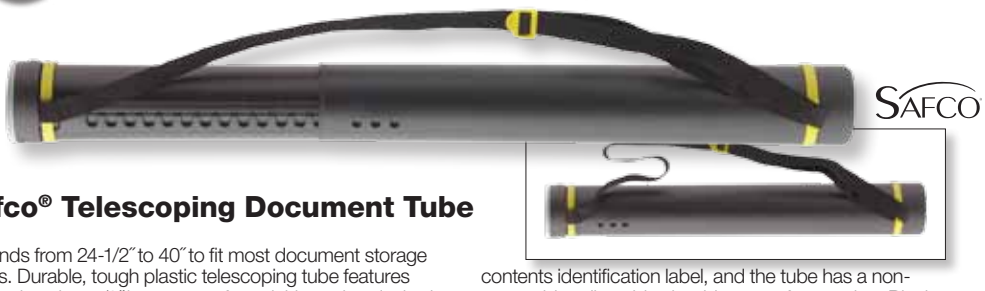
Safco® Steel Modular Flat Files
forestry-suppliers.com

Upright Roll File
5964

Holds up to 20 rolls.

Compact corrugated fiberboard file organizes up to 20 rolls. Stores material upright. Square tubes are reinforced with plastic molding. Assembles quickly and easily. Walnut woodgrain finish.

Model 3081 – Twenty, 2-3/4″ square openings, 22″H x 15″W x 12″D	4 lbs.	**49467**	**$58.75**



SAFCO

Safco® Telescoping Document Tube
2269

Expands from 24-1/2″ to 40″ to fit most document storage needs. Durable, tough plastic telescoping tube features graduations in 1-1/2″ increments for quickly setting desired size, locking tabs in 3/4″ increments for maintaining desired length, 3″ inside diameter, screw-on end cap for positive closure, clear plastic snap cap on end which holds a contents identification label, and the tube has a non-removable adjustable shoulder strap for carrying. Black.

Safco Telescoping Document Tube	15 oz.	**49748**	**$26.50**
		3+	**$24.50**

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25397

Emergency Eye Flush Wall Station

7152

These wall-mount stations conveniently house sterile isotonic buffered solution for emergency flushing or irrigation of the eyes. To use, simply open the bottle and flush the affected area as needed. Control the rate of flow by pressure on the bottle. Two sizes are available, a single wall station that holds one 32 oz. bottle of solution and a double wall station that holds two 16 oz. bottles of solution.

Single Wall Station – Includes one 32 oz. bottle of eye flush solution	3 lbs.	**25396**	**$23.25**
		8+	**$19.50**
32 oz. Bottle of Replacement Eye Flush Solution	2 lbs.	**25399**	**$12.75**
		12+	**$11.50**
Double Wall Station – Includes two 16 oz. bottles of eye flush solution	4 lbs.	**25397**	**$25.25**
		6+	**$21.25**
16 oz. Bottle of Replacement Eye Flush Solution	1 lb.	**25398**	**$8.45**
		12+	**$7.60**

Emergency Eyewash

4610

This sterile isotonic buffered solution is perfect for flushing or irrigating the eyes or skin.

1 oz. Emergency Eyewash Single use.	8 oz.	**25451**	**$2.55**
		12+	**$2.25**
		24+	**$1.95**
4 oz. Emergency Eyewash	8 oz.	**25452**	**$3.60**
		12+	**$3.25**
		24+	**$2.85**
8 oz. Emergency Eyewash	8 oz.	**25453**	**$5.75**
		12+	**$5.15**
		24+	**$4.60**

Emergency Eye Wash Bottle

6378

Gently flushes eyes, wherever you are!

Excellent portable unit for treating eye injuries that occur in the field or in the lab. Use for herbicide, insecticide, or dust particle contamination. Perforated spray plate in the cup center breaks up the stream to wash the eye gently. Capped air vent with drain tube captures and releases used fluid. 16 oz. capacity. Solution is not included.

Emergency Eye Wash Bottle	8 oz.	**23309**	**$11.95**
Belt Pouch, Cordura – Holds two 20 oz. Fuel Bottles, 5-1/2″ x 10″ x 3-1/2″	3 oz.	**94055**	**$11.25**

Honeywell

Fendall Flash Flood Eyewash Station

3452

Portable, self-contained eyewash station provides flexible emergency eyewash capability in an economical system.

Made of FDA-approved, high-impact polyethylene and includes a one-gallon container of Eyesaline® solution providing three full minutes of gravity fed flow. Flushing can be extended up to 15 minutes with the addition of four cartridges (sold separately). The protective nozzle covers are easily pulled off in an emergency and each nozzle has a built-in filter for extra protection.

Eyewash Station	14 lbs.	**25455**	**$143.75**
		3+	**$133.50**
1-Gallon Refill Cartridge	9 lbs.	**25456**	**$37.75**
		4+	**$34.95**

***Note:** This device is classed as a secondary (personal) device and is intended to supplement and not replace a 15-minute flush capability primary device.

DuPont Tyvek Apron, Sleeves and Boot Covers
page 614

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ELVEX

1 Elvex® Legionnaire™ Impact & Splash Goggle
8503

This economical goggle offers a full range of features including impact-resistant, molded lens with SuperCoat™ anti-fog coating; 2.0 mm thick polycarbonate lens with a base 3.5 curvature; 18 built-in, indirect ventilation slots; wide contact between goggle and face for a comfortable fit; unique nose bridge provides an excellent seal; and an adjustable elastic support strap. Fits over prescription glasses. Complies with ANSI Z87+ and CE EN-166 requirements.

Elvex® Legionnaire™ Goggle	4 oz.	**23335**	**$4.60**
		12+	**$4.25**

1

UVEX by Honeywell

2 New! Uvex Stealth® Goggles
4810

Combines modern design, technology, materials and high performance lens coatings to create the highest levels of worker comfort and acceptance. Features include low profile design and indirect venting system for chemical splash and impact protection; impact resistant lens that provide greater than 99.9% protection from harmful UV rays; toric lens for superior optics and unobstructed peripheral vision; soft, elastomer body that flexes and conforms to the face; pivoting, quick-adjust neoprene headband; plus, easy and cost effective lens replacement. Meets ANSI Z87.1-2003 (High Impact) and CSA Z94.3 standards.

	Anti-Fog/Anti-Scratch	Anti-Fog	Weight	Each	12+
Clear Lens	**23454**		4 oz.	**$18.70**	**$16.90**
		23455	4 oz.	**$15.10**	**$13.55**
Gray Lens		**23456**	4 oz.	**$16.15**	**$14.60**

2

BOUTON

3 Bouton® "Fog-Free" Chemical Splash Goggle
3446

Meets ANSI Spec. Z87.1-1997

Soft frame, single lens goggle with four stack trap vents for indirect ventilation and added security from chemical splashes. Clear lens with "fog-free" lens coating. Elastic headband. May be worn over glasses. Meets ANSI Spec. Z87.1-1997.

Bouton "Fog-Free" Chemical Splash Goggle	4 oz.	**23334**	**$5.50**
		12+	**$4.75**
		24+	**$4.25**

3

4 Soft-Frame Goggle
3447

Meets ANSI Spec. Z87.1-1997

Soft, pliable vinyl frame is designed with flush sides and indented temple areas to effectively fit your face. Extra large, one-piece lens gives you a wide, undistorted field of vision and excellent "downvision." Goggles will not discolor with age, soften at high temperature, or get brittle in cold. Lenses are 0.060″ thick polycarbonate. Clear frame, clear lens. Adjustable elastic headband. Meets ANSI Spec. Z87.1-1997.

Soft-Frame Goggle	4 oz.	**23290**	**$4.75**
		10+	**$4.35**
		20+	**$3.75**

4

MSA® Comfo Classic® Respirators
page 610

5 Sight Shield Steel Mesh Safety Goggles
3443

Designed to help protect against debris, foreign particles, wood chips, or other materials from entering user's eyes. Tough polycarbonate frame with stainless steel mesh lenses resist rust and will not fog. Soft foam padding and adjustable headband for comfortable wear. 20 mesh.

Sight Shield Steel Mesh Safety Goggles	2 oz.	**23251**	**$19.75**
		12+	**$17.75**

5

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Pyramex™ I-Force™ Safety Goggles
7943

The I-Force's sporty, lightweight design provides excellent protection without the bulkiness and weight of a traditional goggle. The dual pane lens system features an outer polycarbonate lens to protect against environmental hazards and an inner acetate lens that helps prevent fogging. H2X™ anti-fog coating provides additional resistance to fogging in extreme temperatures. An indirect vented foam carriage ensures maximum dust protection and an airflow outlet for heat. Quick release interchangeable temples and elastic strap included. Provides 99% protection from UV-A and UV-B rays. Meets ANSI/ISEA Z87.1-2010 Standards, MCEPS Class 1 Military Standards, and CAN/CSA Z94.3-07 Standards. CE EN166 Certified.

Amber Lens	4 oz.	**23361**	**$20.50**
		12+	**$18.60**
Clear Lens	4 oz.	**23362**	**$19.95**
		12+	**$18.25**
Gray Lens	4 oz.	**23363**	**$20.50**
		12+	**$18.60**

Pyramex® V2G Goggles
8435

These goggles have a 9.75 base curved lens for full side protection and a foam padding for a perfect seal to keep out dust and airborne particles. The lenses provide 99% protection against harmful rays, are treated to prevent fogging, and self-seal small scratches. Headband features a quick fit retainer. Interchangeable temples/headband are included with each pair. Exceeds ANSI Z87.1-2003 High Impact Requirements. CE EN166 Certified. CAN/CSA Z94.3-02.

Clear Lens	2 oz.	**23378**	**$8.70**
		12+	**$7.90**
Gray Lens	2 oz.	**23379**	**$9.40**
		12+	**$8.60**

ESS FirePro FS Goggle
7296

Low-profile goggles optimized for wildland firefighting and designed for maximum peripheral vision and minimal interference with helmets. Features a rapid strap adjustment system; a full-perimeter ventilation and filtration system; durable, anti-microbial face padding; extra-thick, 2.8mm ballistic polycarbonate lenses with 100% UVA/UVB protection and anti-scratch protection on the outside of the lens plus fog resistance on the inside. Full wrap-around strap with Velcro®. Compliant with wildland fire equipment performance requirements, including NFPA 1977 Standard on Protective Clothing and Equipment for Wildland Fire Fighting (2011 Edition), NFPA 350°F for 5-minute oven test, ANSI Z87.1+, and US Federal OSHA.

FirePro FS Goggle	5 oz.	**23032**	**$42.75**

ESS Striketeam™ XTO Goggle
6556

Peel away Tear-Off for clear vision immediately!

Ideal for wildland firefighting and technical rescue, this goggle's thick Polycarbonate lens is hard coated and anti-fog treated inside and out. Easy clean closed cell facefoam and full filtered ventilation. Flame resistant Velcro® tabbed elastic strap. Fits over most eye glasses. Includes pack of two Tear-Offs (thin, reusable films which instantly provide clear vision when peeled away from lens). Exceeds ANSI Z-87.1 and CSA Z94.3-92 standards. Lenses meet 0.22 caliber military ballistic impact test MIL-V-43511C.

ESS Striketeam XTO Goggle	7 oz.	**23088**	**$37.80**
Replacement Tear-Offs (Pack of 6)	1 oz.	**23089**	**$6.30**

Uvex Genesis Safety Glasses
2695

Made in USA

Dual 9-base "wrap-around" lens provides uncompromised peripheral vision and protection. Other features include soft, flexible fingers nose-piece which adjusts and conforms to any nasal profile while minimizing slippage, a soft elastomer browguard which diffuses and deflects impact, and adjustable temples (length and lens inclination). Meets ANSI Z87.1 standards and the Mil VO ballistic test for impact. Frames have a lifetime guarantee from the manufacturer. Made in the USA.

Clear Lens	Espresso Lens	Weight	Each	10+	20+
23264		2 oz.	**$9.70**	**$8.70**	**$7.90**
	23265	2 oz.	**$11.45**	**$10.45**	**$9.35**

Uvex Bandit Safety Glasses
2696

Made in USA

These sporty safety glasses feature wrap around styling! Temple lengths can be adjusted for a comfortable, snug fit. The patented lens system allows for easy replacement. Meets ANSI Z87.1 standards and CSA Z94.3-1992 requirements. Frames have a lifetime guarantee from the manufacturer. Made in the USA.

Clear Lens	Espresso Lens	Weight	Each	20+	40+
23266		2 oz.	**$8.10**	**$7.45**	**$6.55**
	23267	2 oz.	**$9.20**	**$8.50**	**$6.90**

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carhartt

Carhartt® Spokane™ Safety Glasses

4759

With dual-injected straight-back temples, a sophisticated half-frame design, and a flexible rubber nosepiece, these glasses provide superior comfort with style! The scratch-resistant polycarbonate lenses offer 99% protection from harmful UV-A and UV-B rays. Meets ANSI Z87.1 High Impact Requirements and CAN/CSA Z94.3-07.

Clear Lens, Black Frame	1 oz.	**23058**	**$9.00**
Gray Lens, Black Frame	1 oz.	**23059**	**$9.50**
		12+	**$7.95**
Sandstone Bronze Lens, Black Frame	1 oz.	**23060**	**$9.50**
		12+	**$7.95**

carhartt

Carhartt® Carthage™ Safety Glasses

4759

These versatile safety glasses feature an indirect vented foam carriage that provides both maximum dust protection and sufficient airflow to prevent fogging. Use the included interchangeable temples/strap for a goggle-type fit. The anti-fog, scratch-resistant polycarbonate lenses offer 99% protection from UV-A and UV-B rays. Meets ANSI Z87.1 High Impact Requirements and CAN/CSA Z94.3-07.

Clear Anti-Fog Lens, Black/Tan Frame	2 oz.	**23055**	**$15.50**
		12+	**$12.90**
Gray Anti-Fog Lens, Black/Tan Frame	2 oz.	**23056**	**$15.90**
		12+	**$13.25**
Sandstone Bronze Anti-Fog Lens, Black/Tan Frame	2 oz.	**23057**	**$15.90**
		12+	**$13.25**

carhartt

Carhartt® Billings™ Safety Glasses

4759

Stylish and lightweight, these frameless safety glasses provide wrap-around coverage for outstanding protection. The scratch-resistant polycarbonate lenses offer 99% protection from UV-A and UV-B rays. Meets ANSI Z87.1 High Impact Requirements and CAN/CSA Z94.3-07.

Clear Anti-Fog Lens, Clear Temples	1 oz.	**23045**	**$3.20**
		12+	**$2.95**
Clear Lens, Clear Temples	1 oz.	**23046**	**$2.75**
		12+	**$2.45**
Gray Anti-Fog Lens, Gray Temples	1 oz.	**23047**	**$4.30**
		12+	**$3.60**
Gray Lens, Gray Temples	1 oz.	**23048**	**$3.70**
		12+	**$3.10**
Sandstone Bronze Lens, Sandstone Bronze Temples	1 oz.	**23049**	**$3.70**
		12+	**$3.10**

carhartt

Carhartt® Carbondale™ Safety Glasses

4759

Combining comfort and durability, these glasses feature scratch-resistant polycarbonate lenses that provide 99% protection from harmful UV-A and UV-B rays. A rubber nosepiece ensures a secure fit, and the stylish, two-tone full frame features flexible, dual-injected temples. Meets ANSI Z87.1 High Impact Requirements.

Clear Anti-Fog Lens, Black/Tan Frame	1 oz.	**23050**	**$8.50**
		12+	**$7.10**
Clear Lens, Black/Tan Frame	1 oz.	**23051**	**$7.90**
		12+	**$6.60**
Gray Anti-Fog Lens, Black/Tan Frame	1 oz.	**23052**	**$9.00**
		12+	**$7.50**
Gray Lens, Black/Tan Frame	1 oz.	**23053**	**$8.40**
		12+	**$6.95**
Sandstone Bronze Lens, Black/Tan Frame	1 oz.	**23054**	**$8.40**
		12+	**$6.95**

PYRAMEX

Pyramex® Azera® Safety Glasses

8434

The flexible temples of these safety glasses provide a superior fit, and the built-in rubber flange nose piece ensures all-day comfort. The protective lenses filter 99% of harmful UV rays. Exceeds ANSI Z87.1 High Impact Requirements.

Black Frame/Clear Lens	Black Frame/Gray Lens	Weight	$	12+
23401		1 oz.	**$3.40**	**$2.90**
	23402	1 oz.	**$3.85**	**$3.25**

PYRAMEX

Pyramex® Solara® Safety Glasses

8433

The extended lens design of these glasses provides complete coverage, and the lenses filter 99% of harmful UV rays. Rubber inserts in the temples ensure a comfortable fit, and the built-in nose pads elevate the frame for weightless wear. Exceeds ANSI Z87.1 High Impact Requirements.

Black Frame/Clear Lens	Black Frame/Gray Lens	Weight	$	12+
23393		1 oz.	**$3.70**	**$3.40**
	23394	1 oz.	**$4.15**	**$3.75**

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1

ELVEX

1 Elvex® Acer™ Safety Glasses with Camo Frame

4677

These safety glasses have everything you are looking for in a stylish safety glass. Features include a full coverage lens with a floating design, a soft rubber nose bridge, and a comfortable, lightweight fit. Meets ANSI Z87+ high velocity requirements. Ballistic Vo rated for impact, 4X the ANSI requirement. CE certified and complies with EN-166 requirements.

Amber Lens	Clear Lens	Grey Lens	Indoor/ Outdoor	Weight	Each	10+	20+
24255		24257		1 oz.	$6.60	$5.60	$5.20
	24256			1 oz.	$6.35	$5.40	$5.00
			24258	1 oz.	$6.95	$5.95	$5.55

2

2 Elvex® Flex-Pro™ Safety Glasses

4680

Thanks to CoreFlex™ Technology, the wire core straight back temples of these safety glasses allow you to personalize the shaping and tension adjustment for all day comfort and non-slip eyewear retention. Wraparound frame provides greater protection and the soft, cushioned saddle nose bridge enhances comfort and fit. Ballistic rated* for impact protection 7x ANSI Z87+ energy. (4x Z87+ impact velocity). Tested to US Military Standard MIL-PRF-31013 Impact Test. Black Frame.

Amber Lens	Clear Lens*	Clear Lens	Grey Lens	Indoor/ Outdoor	Silver Mirror†	Weight	Each	10+	20+
24263			24266			1 oz.	$6.85	$5.85	$5.40
	24264					1 oz.	$7.65	$6.45	$6.05
		24265				1 oz.	$6.55	$5.60	$5.20
				24267		1 oz.	$7.30	$6.25	$5.80
					24268	1 oz.	$7.95	$6.95	$6.40

*Anti-Fog †Glossy Black Frame

3

3 Elvex® Reflect-Specs™ Safety Glasses

4681

Be seen at night or in low light conditions with patented Reflect-Specs™! Design integrates reflective temple accents into both outside temples adding another level of visibility and safety for workers in low light and night work applications. Super lightweight 0.9 oz. with a 10 base polycarbonate lens for tighter wrap and greater protection, comfort compliance, and uninterrupted field of view. High visibility, rubber-tipped temples reduce slipping and enhance comfort.

Amber Lens Yellow Temples	Clear Lens Yellow Temples	Indoor/ Outdoor Yellow Temples	Anti-Fog Clear Yellow Temples	Weight	Each	10+	20+
24269				1 oz.	$4.45	$3.80	$3.50
	24271			1 oz.	$4.10	$3.55	$3.30
		24272		1 oz.	$4.90	$4.25	$3.85
			24270	1 oz.	$4.80	$4.10	$3.85

4

4 Elvex® Avion SF™ Safety Glasses

4678

Slim Fit – A favorite unisex style, these safety glasses have a slimmer design to fit and protect more facial profiles. Features include mono-lens construction with wraparound lens, colorful rubber-tipped temples, and a soft rubber nose bridge. All lenses provide 99% UV protection. Complies with ANSI Z87.1-2010 (+) and CE-EN-166. Ballistic Vo rated for impact, which is 4 times the ANSI requirement.

Black Frame Clear Lens*	Black Frame Grey Lens*	Blue Frame Clear Lens	Pink Frame Clear Lens	Black Frame Clear Lens	Weight	Each	10+	20+
24259					1 oz.	$4.70	$4.00	$3.75
	24260				1 oz.	$4.85	$4.15	$3.85
		24261	24262	24278	1 oz.	$3.75	$3.20	$2.95

*Anti-Fog

5

5 Elvex® Avion™ Safety Glasses

7809

Designed to comfortably fit a wide variety of facial sizes, these safety glasses feature a stylish wraparound lens, rubber-tipped temples, and a soft rubber nose bridge. The lenses provide 99% UV protection, are ballistic Vo rated for impact, and comply with ANSI Z87.1 (+) requirements.

Clear SuperCoat™ Anti-Fog	Indoor/Outdoor Hard Coated	NCB™ Gray Hard Coated	Weight	Each	10+	20+
23297			2 oz.	$4.75	$4.35	$3.85
	23298		2 oz.	$4.50	$4.10	$3.70
		23299	2 oz.	$4.10	$3.75	$3.30

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ELVEX

1 Elvex® Sphere-X Ultimate™ Safety Glasses
4682

Excellent industrial grade protection in a contemporary angular wrap style with wide field of vision. Adjustable length drop temples gently hook behind the ears to prevent slipping during work activity for better protection. Soft, self-fitting rubber nose Bridge conforms to a wide range of bridge sizes to enhance comfort and a secure fit. Unique, lens/frame ventilation slots allows air to vent, to minimize fogging. Ballistic rated for impact protection 7x ANSI Z87+ energy. (4x Z87+ impact velocity). Tested to US Military Standard MIL-PRF-31013 Impact Test. Black Frame.

Clear Lens*	Clear Lens	Grey Lens*	Grey Lens	Indoor/ Outdoor	Weight	Each	10+	20+
24273					1 oz.	$4.75	$4.05	$3.75
	24274				1 oz.	$3.75	—	—
		24275			1 oz.	$4.95	$4.30	$3.95
			24276		1 oz.	$3.95	$3.45	$3.20
				24277	1 oz.	$4.50	$3.90	$3.55

* Anti-Fog

2 Elvex® Sonoma™ Safety Glasses
7426

Offering a stylish and sophisticated design, these safety glasses provide excellent eye protection and superior fit! Features include coated polycarbonate lenses and temples with rubber inserts. Complies with ANSI Z87.1 (Z87+).

Golden Brown Frame		Tortoise				
Clear Lens	Light Brown Lens	Gold Mirror Lens	Weight	Each	12+	24+
23235			2 oz.	$5.50	$5.05	$4.60
	23236		2 oz.	$5.85	$5.35	$4.90
		23243	2 oz.	$6.25	$5.75	$5.25

3 Elvex® Xenon Safety Glasses
4350

These lightweight safety glasses are both stylish and comfortable! Features include hard coated polycarbonate lens, a soft rubber nose bridge and colorful rubber inserts on the temples. Tested to ANSI Z87.1 (Z87+).

Clear Lens	Indoor/ Outdoor Lens	Gray Lens	Weight	Each	12+	24+
23276			1 oz.	$2.65	$2.35	$2.15
	23277		1 oz.	$3.45	$3.15	$2.85
		23278	1 oz.	$2.95	$2.65	$2.45

4 Elvex® XTS™ Safety Glasses
6964

Provide a close fit with the face.

These glasses fulfill the safety requirements of a safety spectacle, including important side coverage. The dual lens construction allows for excellent peripheral vision, and the anti-slip rubber temple tips and nose bridge provide added comfort. All lenses provide 99% protection against UV-A, UV-B, and UV-C in 180 to 380 nm wavelength range. Complies with ANSI Z87.1.

Clear Lens	Mirror Lens	Gray Lens	Weight	Each	12+	24+
23170			1 oz.	$4.70	$4.25	$3.85
	23171		1 oz.	$6.05	$5.60	$5.10
		23168	1 oz.	$5.00	$4.45	$4.10

5 Elvex® Trix Safety Glasses
2055

The style you want at a price you can afford! All lenses provide 99% UV protection and the temples are universal length. These glasses comply with ANSI Z87.1 requirements. Choose from clear or gray lenses.

Clear Lens	Gray Lens	Weight	Each	10+	20+	50+
23287		1 oz.	$2.95	$2.75	$2.45	$2.15
	23288	1 oz.	$3.20	$2.90	$2.60	$2.45

6 Elvex® OVR-Spec II Safety Glasses
6966

Specifically designed to be worn over prescription glasses, these safety glasses have a flatter front lens curvature to provide a secure fit and minimize reflections. The sleek, contemporary design features built-in side windows and rubber temples. Fits over medium-sized glasses up to 5-3/4″ wide. Meets ANSI Z87.1 (Z87+) requirements.

Clear Lens	Gray Lens	Weight	Each	12+	24+
23211		2 oz.	$5.30	$4.90	$4.45
	23212	2 oz.	$5.60	$5.10	$4.60

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1

1 Radians® Vengeance™ Polarized Safety Glasses
2862

These polarized glasses feature polycarbonate lenses that offer impact resistance and 99.9% UVA/UVB protection. Wide temples provide extra side coverage and protection. The lightweight, stylish frame ensures a comfortable fit. Includes neck cord and microfiber bag. Meets ANSI Z87.1+ standards.

Black Frame/ Smoke Lens	Tortoise Frame/ Brown Lens	Weight	$	6+
23209		2 oz.	$25.95	$23.60
	23210	2 oz.	$25.95	$23.60

2

2 Radians® Altitude™ Polarized Safety Glasses
2863

Sleek and stylish, these safety glasses feature polarized polycarbonate lenses that guard against impact and provide 99.9% UVA/UVB protection. Soft rubber nose pads and rubber-tipped temples offer a non-slip, comfortable fit. Meets ANSI Z87.1+ standards.

Black Frame with Smoke Lens	Tortoise Frame with Brown Lens	Weight	$	6+
23244		2 oz.	$26.95	$24.50
	23247	2 oz.	$26.95	$24.50

3

3 Radians® Rock™ Safety Glasses
2865

A wraparound single polycarbonate lens ensures an unobstructed field of vision and also provides both impact resistance and 99.9% UVA/UVB protection. The adjustable, rubber nosepiece and wraparound, non-slip rubber temples offer maximum comfort all day! Meets ANSI Z87.1+ standards.

Frame	Clear Anti-Fog Lens	Smoke Anti-Fog Lens	Silver Mirror Lens	Weight	$	12+
Black	23221			1 oz.	$5.55	$5.05
		23222		1 oz.	$5.95	$5.45
Silver		23223		1 oz.	$5.95	$5.45
White			23224	1 oz.	$6.40	$5.80

4

4 Radians® Journey Safety Glasses
8438

The gel nosepiece and four-position telescoping temples of these safety glasses provide superior comfort and fit. Polycarbonate lenses offer excellent impact resistance, are hard coated for scratch resistance, and provide 99.9% UVA/UVB protection. Meets ANSI Z87.1+ requirements.

Black Frame/ Clear Lens	Black Frame/ Smoke Lens	Camo Frame/ Smoke Lens	Weight	$	12+	24+
23419			2 oz.	$3.10	$2.80	$2.50
	23420		2 oz.	$3.50	$3.20	$2.85
		23421	2 oz.	$7.15	$6.10	—

5

5 Radians® Chief Safety Glasses
8440

These safety glasses can be comfortably worn over prescription eyewear and provide outstanding eye protection with reinforced sideshields and an integrally molded brow guard. The hard coat lenses provide 99.9% UVA/UVB protection. Meets ANSI Z87.1+ requirements.

Clear Lens	Weight	$	25+	50+	144+
23310	2 oz.	$1.80	$1.65	$1.55	$1.20

Bausch & Lomb® Anti Fog Lens Cleaner
2306

These non-silicone, anti-static tissues are treated with special surfactants for cleaning all glass and plastic lenses as well as computer screens, automobile mirrors and much more. Anti-fog performs in mild fogging conditions. Unique package design allows easy dispensing. 100 Tissues per box.

Box of 100		
12 oz.	25400	$14.25
	10+	$12.25

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ELVEX

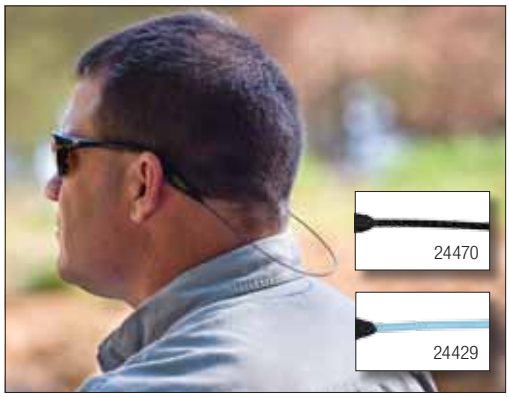
Elvex® RX-350 Bifocal Safety Glasses

3796

These glasses combine the requirement for bifocal lenses with the desire for stylish, lightweight and comfortable glasses. The two base six hard-coated polycarbonate lenses are held in a contemporary wrap frame made of skin tone golden brown polycarbonate with a soft rubber nose bridge and rubber temple inserts. Available in the following bifocal diopter powers: 1.0, 1.5, 2.0, 2.5, and 3.0. Complies with ANSI Z87+.

Lens	Diopter 1.0	1.5	2.0	2.5	3.0	Weight	$
Clear	23263	23270	23271	23273	23275	1 oz.	$8.95
Brown	23282	23283	23284	23285	23296	2 oz.	$9.15

Note: Safety glasses with magnification bifocals are not intended to replace prescription eyewear. If you are unsure whether or not you can benefit from these glasses, please see an eye care professional.



Cablz® Eyewear Retainers

7407

Stays Off Your Neck!

The ultimate eyewear retainer! Constructed of surgical grade stainless steel cable or rust-resistant monofilament and industrial strength rubber, this retainer provides a secure fit. The Cablz stays comfortably off your neck, allows for full range of motion, does not snag on clothing, and does not soak up water or sweat. **Length:** 14″.

Zipz Adjustable Stainless Steel

Designed to be worn extended at regular length or adjusted for a closer fit to the back of the head. 14″ L Stainless cable with black coating.

Zipz Retainer 4 oz.	**24424**	**$14.95**
Zipz XL Retainer – Features larger diameter rubber ends to fit eyewear with larger earpieces 4 oz.	**24425**	**$14.95**

Fixed Length Stainless Steel Cablz® Eyewear Retainer

Black Coated Stainless Steel 1 oz.	**24470**	**$11.95**
XL Black Coated Stainless Steel – Features larger diameter rubber ends to fit eyewear with larger earpieces 1 oz.	**24456**	**$11.95**

Fixed Length Monofilament

Monofilament instead of stainless steel cable 1 oz.	**24429**	**$11.95**

Hydro Flask® Tactical Line Insulated Bottles
pages 139 and 663

Chums Eyeglass Retainers

3854

These eyeglass retainers feature an adjustable fit and work with all standard frame glasses. Made of 100% cotton, they are cool, comfortable, durable, and machine washable.

Black	1 oz.	**24452**	**$5.25**
	12+		**$4.25**

Chums® Slip Fit Eyeglass Retainer

7048

Ideal for anyone who works in the outdoors and wears eyeglasses or sunglasses, or they can also be worn by workers in a lab or plant for retaining safety glasses. Attach to your glasses' temples to prevent them from falling to the ground. The heavy-duty attachment easily slides over almost all glass frames for a secure and reliable fit. Cord is 3 mm in diameter.

Slip Fit Eyeglass Retainer	1 oz.	**24445**	**$5.25**
	24+		**$4.25**

Carson® Stuff-It™

8593

Perfect for cleaning binoculars, spotting scopes, telescopes, cameras, eyeglasses, and more!

This super-soft microfiber lens cloth is housed in a protective pouch that keeps the cloth clean, dry, and always ready for use. When not being used, simply pull the drawstring to retract the cloth and then stuff it securely inside the pouch. Safe for use on all lenses.

Carson Stuff-It 1 oz.	**91193**	**$4.25**

Forestry Suppliers' Vehicle Visor Glasses Clip

4453

This glasses clip slips easily on your vehicle's sun visor to keep eyewear protected and within easy reach. Gentle foam snugly cushions the temples of your eyewear.

Forestry Suppliers' Vehicle Visor Glasses Clip 1 oz.	**24465**	**$7.25**

Under Armour® Apparel
page 12

Arborwear® Workwear
page 14

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1 Costa® Brine Sunglasses
7860

These high-performance glasses feature integral hinges, Hydrolite™ temples, and co-injected, cold-molding technology for superior comfort and fit.

Costa® Brine Sunglasses with 400G LightWAVE™ Glass Lens

Optical quality glass lens for excellent clarity.

Black Matte Frame with 400G Blue Mirror Lens	4 oz.	**23410**	**$189.00**
Black Matte Frame with 400G Green Mirror Lens	4 oz.	**23412**	**$189.00**
New! Matte Crystal Frame with 400G Blue Mirror Lens	4 oz.	**23583**	**$189.00**
New! Matte Crystal Frame with 400G Green Mirror Lens	4 oz.	**23584**	**$189.00**

Costa® Brine Sunglasses with 580P Polycarbonate Lens

Lightweight lens features C-WALL™ coating that repels water, oil, dust, and scratches. Meets ANSI Z80.3 and ANSI Z87.1.

Black Matte Frame with 580P Copper Lens	4 oz.	**23411**	**$159.00**
Black Matte Frame with 580P Grey Lens	4 oz.	**23413**	**$159.00**
New! Matte Crystal Frame with 580P Copper Lens	4 oz.	**23586**	**$159.00**
New! Matte Crystal Frame with 580P Grey Lens	3 oz.	**23585**	**$159.00**

2 Costa® Harpoon Sunglasses
7190

Featuring nylon frames that are virtually indestructible, these glasses provide the perfect blend of comfort, style, and durability. The 100% polarized lenses provide UV protection.

Costa® Harpoon Sunglasses with 580P Polycarbonate Lens

Lightweight lens features C-WALL™ coating that repels water, oil, dust, and scratches. Meets ANSI Z80.3 and ANSI Z87.1.

Copper Lens	4 oz.	**23403**	**$169.00**
Gray Lens	4 oz.	**23404**	**$169.00**

Costa® Harpoon Sunglasses with 400G LightWAVE™ Glass Lens

Optical quality glass lens for excellent clarity.

Blue Mirror Lens	4 oz.	**23498**	**$199.00**
Green Mirror Lens	4 oz.	**23499**	**$199.00**

3 Costa® Triple Tail Sunglasses
3643

Designed and built for protection on the water! Utilizing the incredible performance of Titanium Fused Grilamid, the most advanced nylon made today, the Triple Tail offers maximum durability and comfort in a fashionable 8-base wrap frame style with spring hinges.

Costa® Triple Tail Sunglasses with 580P Polycarbonate Lens

Lightweight lens features C-WALL™ coating that repels water, oil, dust, and scratches. Meets ANSI Z80.3 and ANSI Z87.1.

Copper Lens	4 oz.	**23261**	**$169.00**
Gray Lens	4 oz.	**23262**	**$169.00**

Costa® Triple Tail Sunglasses with 400G LightWAVE™ Glass Lens

Optical quality glass lens for excellent clarity.

Blue Mirror Lens	8 oz.	**23346**	**$199.00**
Green Mirror Lens	4 oz.	**23336**	**$199.00**

4 Costa® Fathom Sunglasses
3644

The perfect combination of performance and comfort! These sunglasses are designed to fit almost any face through a combination of a nylon and Hydrolite™ composite and the Costa revolutionary co-injected frame process, providing the ideal position and feel.

Costa® Fathom Sunglasses with 580P Polycarbonate Lens

Lightweight lens features C-WALL™ coating that repels water, oil, dust, and scratches. Meets ANSI Z80.3 and ANSI Z87.1.

Copper Lens	4 oz.	**23414**	**$159.00**
Gray Lens	4 oz.	**23415**	**$159.00**

Costa® Fathom Sunglasses with 400G LightWAVE™ Glass Lens

Optical quality glass lens for excellent clarity.

Blue Mirror Lens	8 oz.	**23348**	**$189.00**
Green Mirror Lens	4 oz.	**23292**	**$189.00**

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COSTA

1 New! Costa® Blackfin® Sunglasses
4869

Non-slip, high performance glasses have a Hydrolite™ co-injected lining in the nylon frame that keeps them from slipping while wearing. Other features include a Realtree® Xtra® camo frame that is flexible with a large, comfortable fit; stainless steel integral hinges; 100% UV light blockage; and 100% polarization.

Costa Del Mar® Blackfin® Sunglasses with 400G Mirrored Glass Lenses

Optical quality glass lens for excellent clarity.

Costa Blackfin Sunglasses with 400G Blue Mirror Glass Lens	5 oz.	**23587**	**$209.00**
Costa Blackfin Sunglasses with 400G Green Mirror Glass Lens	5 oz.	**23588**	**$209.00**

Costa® Blackfin® Sunglasses with 580P Polycarbonate Lenses

Lightweight lens features C-WALL™ coating that repels water, oil, dust, and scratches. Meets ANSI Z80.3 and ANSI Z87.1.

Costa Blackfin Sunglasses with 580P Grey Lens	4 oz.	**23589**	**$179.00**
Costa Blackfin Sunglasses with 580P Copper Lens	4 oz.	**23590**	**$179.00**

2 New! Costa® Fisch® Sunglasses
4870

The three-hole venting system of these sunglasses keeps things cool even when the temperatures aren't! Also feature a Mossy Oak® Shadow Grass® Blades™ Camo frame, no-slip Hydrolite lining, a comfortable, extra-large fit, stainless steel integral hinges, durable co-injected nylon frame, 100% UV light blockage, and 100% polarization. Hard case is included.

Costa® Fisch™ Sunglasses with 400G Mirrored Glass Lenses

Optical quality glass lens for excellent clarity.

Costa Fisch Sunglasses with 400G Blue Mirror Glass Lens	5 oz.	**23591**	**$209.00**
Costa Fisch Sunglasses with 400G Green Mirror Glass Lens	5 oz.	**23592**	**$209.00**

Costa® Fisch® Sunglasses with 580P Polycarbonate Lenses

Lightweight lens features C-WALL™ coating that repels water, oil, dust, and scratches. Meets ANSI Z80.3 and ANSI Z87.1.

Costa Fisch Sunglasses with 580P Grey Lens	4 oz.	**23593**	**$179.00**
Costa Fisch Sunglasses, with 580P Copper Lens	4 oz.	**23594**	**$179.00**

bollé

3 Bollé® Anaconda Glasses
8416

These rugged glasses feature a comfortable wraparound frame and high-performance polycarbonate lenses that are lightweight and shatter-resistant. Non-slip Thermogrip® nose pads and temples provide a sure fit.

Black Frame/Polarized TNS Lens	4 oz.	**23331**	**$66.50**

SPF 30 Bonding Base Formula Sunblock
page 649

COSTA

New! Costa® Mesh Hats
4871

These Six-Panel trucker caps have a stylish cotton front with mesh back panels to keep you cool. Garment washed for softness, comfort, and a broken-in look. Velcro® back closure for quick release. One size fits most.

Moss/Stone	3 oz.	**24281**	**$14.99**
Orange/White	3 oz.	**24282**	**$14.99**
Spring Green/White	3 oz.	**24283**	**$14.99**
Realtree® Xtra® Camo/Stone w/ Orange Logo	3 oz.	**24284**	**$19.99**

Columbia Sportswear Company

Columbia Bora Bora™ Booney II Hat
2820

Made of 100% textured nylon poplin and lined with 100% polyester, this ultra-breathable Omni-Shade® hat features UPF 50 to block out 98% of harmful UVA and UVB rays. An Omni-Wick™ sweatband combines with a mesh vent panel (which is non UPF) to keep you cool and the sweat from dripping in your eyes. An adjustable toggle customizes the hat's fit to your head. An adjustable chinstrap adds further security.

Bora Bora Booney II, Sage	2 oz.	**21452**	**$30.00**
Bora Bora Booney II, Fossil	14 oz.	**21453**	**$30.00**

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Vulcan® Cowboy Style Hard Hat
8201

Stylish and comfortable, this hard hat is constructed of high-density polyethylene to provide excellent impact protection. The extra wide brim provides more UV protection than standard or full brim hard hats, and a plush cotton terry sweatband inside the hat helps to keep you dry. The hat's fully adjustable 6-point ratchet suspension ensures a precise, secure fit. Meets ANSI Z89.1-2003, Type 1, Class E, G, and C.

White 1 lb.	24250	$22.95
Black 1 lb.	24253	$22.95
Gray 1 lb.	24252	$22.95
Tan 1 lb.	24251	$22.95

Hard Hat Shade
2184

Provides shade for the back of your neck while blocking the sun and most UV rays. Fits most regular hard hats (caps). Does not fit full brim hard hats. Cotton.

Hard Hat Shade 5 oz.	24368	$8.50
	6+	$7.75

Bullard® Model S62 Low-Profile Vented Cap
7388

This low-profile cap features a vented shell with heat-releasing ventilation slits. Constructed of high-density polyethylene, the cap also features a rounded front, an absorbent cotton brow pad, and accessory slots for attachments. Features a four-point Flex-Gear® ratchet suspension. Meets ANSI Z89.1-2003, Type I, Class C requirements.

Bullard® Model S71 Low-Profile Hats
7389

Constructed of high-density polyethylene, this low-profile hat features a full brim and a large, absorbent cotton brow pad. Features a four-point Flex-Gear® ratchet suspension. Meets ANSI Z89.1-2003, Type I, Class E and G requirements.

	Blue	Orange	Red	White	Yellow	Weight	Each	20+
Model S62	24506	24507	24508	24509	24510	13 oz.	$13.95	$12.95
Model S71	24521	24522	24523	24524	24525	15 oz.	$15.50	$14.50

Accessories and Replacement Parts for Model S62 Cap and Model S71 Hat

Optional Flex-Gear Ratchet Suspension	4 oz.	24560	$11.75
Replacement Pinlock Suspension	3 oz.	24559	$7.35
Replacement Elastic Chinstrap	1 oz.	24907	$3.95
		25+	$3.60
Replacement Cotton Brow Pad	1 oz.	24891	$4.60

Bullard® Model S51 Slotted Cap
3460

One of the lightest caps available.

This cap features a rain trough for extra protection against snow, rain, and dust. It is also equipped with accessory slots for a variety of attachments. Made of high-density polyethylene. Four-point suspension adjusts to fit sizes 6-1/2 to 8.

Bullard® C30 Classic Slotted Cap
8305

Wide profile and brim with Flex-Gear® ratchet suspension

This cap features a wide brim to provide added protection from rain, snow, dust, and harmful UV rays. Constructed of high-density polyethylene, each cap includes accessory slots for a wide variety of attachments. Flex-Gear® ratchet suspension system provides a customized fit with 1″ wide nylon straps, vertical adjustment keys, and an absorbent cotton brow pad. Meets ANSI Z89.1 – 2003, Type 1, Class E and G requirements. Fits sizes 6-1/2 to 8.

	Blue	Orange	Green	White	Yellow	Weight	Each	20+
Model S51	24574	24556	—	24558	24557	13 oz.	$7.95	$7.25
Model C30	24638	24635	24637	24639	24636	15 oz.	$17.50	$16.50

Accessories and Replacement Parts for Model S51 and Model C30 Slotted Caps

Replacement Pinlock Suspension for Model S51	3 oz.	24559	$7.35
Optional Flex-Gear Ratchet Suspension for Model S51	4 oz.	24560	$11.75
Replacement Elastic Chinstrap	1 oz.	24907	$3.95
		25+	$3.60
Optional Pinlock Suspension System for Model C30	4 oz.	24640	$8.50
Replacement Ratchet Suspension System for Model C30	5 oz.	24641	$14.10
Replacement Cotton Brow Pad	1 oz.	24891	$4.60

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MSA

MSA® Vanguard™ Type II Cap

7536

Provides lateral protection.

Designed to provide limited impact and penetration protection in the event of a top or lateral blow to the head. Meets all applicable requirements for a Type I and II (top and lateral impact) helmet as outlined in ANSI/ISEA Z89.1-2009 (Class E). Features a Fas-Trac® ratchet suspension system for a secure fit.

Replacement Fas-Trac Suspension for Vanguard Caps	4 oz.	**24371**	**$31.25**

Hi-Viz Orange	Red	Yellow	Blue	White	Weight	Each	5+
24375	**24376**	**24377**	**24378**	**24380**	1 lb.	**$71.95**	**$67.95**

New! Forester Cap and Full Brim Aluminum Hard Hat

4961

These aluminum hard hats feature a four-point ratchet suspension that fits comfortably and snugly on your head. Complies with ANSI Z89.1-2003 Standards, Type 1 Class C.

Replacement Suspension	4 oz.	**24533**	**$16.95**
		5+	**$15.50**

	Unpainted Aluminum	Orange	Safety Green	Weight	Each	5+
Cap	**24526**	**24528**	**24530**	15 oz.	**$54.95**	**$49.95**
Full Brim Hat	**24527**	**24529**	**24532**	1 lb.	**$54.95**	**$49.95**

Note: Do not use near electrical hazards.

Terri-Band

6957

Features a snug, comfortable fit. Provides unsurpassed absorption of oils and perspiration during wear, and it can be washed frequently to help eliminate allergic reactions. Heavyweight materials and corrosion-proof, dielectric fasteners assure long life.

Terri-Band	1 oz.	**24130**	**$3.50**

MSA

MSA® V-Gard Slotted Caps

3458

Provide protection from impact and electrical hazards.

Designed to provide essential crown clearance to absorb impact energy. Meet ANSI Z89.1 and Class E and G requirements. Caps feature slots on each side for attaching accessories. Caps fit sizes 6-3/4 to 7-5/8. Available with either an easily adjustable, "Staz-On" suspension system or snug-fitting "Fas-Trac Ratchet" suspension system. Designed with no metal parts. 4-point suspension.

Replacement Staz-On Suspension	2 oz.	**24342**	**$8.75**
New! Replacement Fas-Trac Suspension	1 lb.	**24344**	**$13.25**
Optional Chinstrap	1 oz.	**24346**	**$6.95**

MSA

MSA® V-Gard Hats

3458

Provide protection from impact and electrical hazards.

Designed to provide essential crown clearance to absorb impact energy. Meet ANSI Z89.1 and Class E and G requirements. Hats fit sizes 6-3/4 to 7-5/8. Available with either an easily adjustable, "Staz-On" suspension system or snug-fitting "Fas-Trac Ratchet" suspension system. Designed with no metal parts. 4-point suspension.

Replacement Staz-On Suspension	2 oz.	**24342**	**$8.75**
New! Replacement Fas-Trac Suspension	1 lb.	**24344**	**$13.25**
Optional Chinstrap	1 oz.	**24346**	**$6.95**

V-Gard Slotted Cap

Suspension	Orange	Red	Yellow	Lime	Green	Blue	White	Gray	Weight	Each	10+	20+
Staz-On	**24353**	**24355**	**24358**	—	**24354**	**24357**	**24356**	—	13 oz.	**$10.50**	**$10.25**	**$9.50**
Fas-Trac Ratchet	**24201**	**24205**	**24206**	**24234**	**24203**	**24204**	**24202**	**24208**	14 oz.	**$16.75**	**$16.25**	**$15.50**

V-Gard Hat

Suspension	Orange	Red	Yellow	Lime	Green	Blue	White	Gray	Weight	Each	10+	20+
Staz-On	**24349**	**24350**	**24351**	—	**24348**	**24347**	**24352**	**24225**	14 oz.	**$15.25**	**$14.75**	**$14.25**
Fas-Trac Ratchet	**24227**	**24221**	**24223**	**24237**	**24222**	**24220**	**24224**	**24226**	1 lb.	**$22.50**	**$21.50**	**$20.95**

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New! MiraCool® 3-in-1 Comfort Cooling Pad
4947

Simply soak this cooling pad in cold water for 10 to 20 minutes to activate advanced polymer crystals that provide cool comfort for up to two full days! The versatile, reusable cooling pad can be worn three different ways: inside a hard hat, as a hard hat shade, or around the collar of your vest or shirt. Built-in magnetic tabs hold the cooling pad in place. 100% cotton outer covering.

MiraCool 3-in-1 Comfort Cooling Pad	2 oz.	**24830**	**$9.95**
		6+	**$9.05**

New! MiraCool® Cooling Towel
4947

Made of lightweight, super absorbent material that holds water, this towel provides cooling relief for hours without weighing you down! To activate, just rinse the reusable towel in cold water. Hand washable. **Dimensions:** 29.5″L x 14″W.

MiraCool Cooling Towel	7 oz.	**94336**	**$7.50**
		6+	**$6.85**

Water Cooling Vest
3471

Reduce heat fatigue and increase productivity.

Simply soak vest in cool, clean water for five to 10 minutes and enjoy eight to 10 hours of relief. Adjust side clips for snug fit. May be worn under protective clothing. Gel-filled vest only weighs five pounds when hydrated. Durable construction and lightweight cloth assure maximum evaporative cooling comfort. May be handwashed in soap and water. Orange. One size fits all.

Water Cooling Vest	7 oz.	**24857**	**$25.25**
		5+	**$23.25**

OK-1® Hard Hat Neck Shade
7985

This mesh shade provides air flow, shade and visibility! Fits regular and full brim hard hats. Extra fabric length allows you to tuck the mesh fabric inside of a shirt or collar. 5/8″ Silver beaded reflective tape over 2″ orange contrast fabric at bottom of fabric. One size fits all.

Neck Shade, Lime with Orange Stripe	2 oz.	**24369**	**$6.25**

W.E. Chapps Cool Flapp™ Neck and Ear Protector
7034

Protects your ears, head, and neck from painful sunburn.

The Cool Flapp™ cools you down and keeps you protected from the sun on hot days. Made of 100% cotton, nature's own sun filter, it provides excellent sun protection to your ears and the back of your neck from the sun's harmful UV rays. Quickly and easily fastens and unfastens to all ball caps and hard hats. Machine Washable.

Cool Flapp for Ball Caps	2 oz.	**24366**	**$8.95**
		10+	**$7.25**
Cool Flapp for Hard Hats	2 oz.	**24367**	**$9.75**
		10+	**$8.25**

Water Cooling Hard Hat Liner
3470

Attach to the suspension of your hard hat to reduce heat fatigue and increase productivity.

Simply soak the liner in cool, clean water for 5 to 10 minutes, attach to hat, and enjoy 8 to 10 hours of relief. The gel-filled liner will not swell enough when hydrated to effect position of hard hat. Durable construction and lightweight cloth assures maximum evaporative cooling comfort. May be handwashed in soap and water. **Color:** Blue.

Water Cooling Hard Hat Liner	1 oz.	**24856**	**$5.75**
		10+	**$5.10**

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ELVEX

Elvex® Earmuffs and Visors
6791

NRR 25db

Equip your safety hat with face, eye, and hearing protection. Earmuffs and visors fit Bullard®, North®, AO, and Jackson slotted caps and meet ANSI, OSHA, and EPA requirements. Earmuffs are dielectric with a Noise Reduction Rating (NRR) of 25dB. To mount any visor to a hardhat, a bracket (24372) and either a slot adapter (24374) or an earmuff kit (24388) are required.

25dB NRR Muffs with Brackets	11 oz.	**24388**	**$13.50**
		6+	**$11.95**
Steel Mesh Visor (Requires 24372)	3 oz.	**24389**	**$9.50**
Nylon Mesh Visor (Requires 24372)	2 oz.	**24390**	**$9.25**
Clear Lexan Visor (Requires 24372. Not for MSA hats)	5 oz.	**24373**	**$8.15**
Visor Bracket	2 oz.	**24372**	**$8.85**
Slot Adapter to use visor without hearing protection	1 oz.	**24374**	**$3.75**

Elvex® Clear Faceguard
3429

Larger browguard provides extra protection. Ratchet suspension for quick adjustments. "Shock absorbers" between headband and browguard help prevent fatigue. Order headgear and faceshields separately.

Headgear – fits all Elvex faceshields	7 oz.	**23319**	**$9.60**
		5+	**$8.90**
Polycarbonate Faceshield – clear, 8″ x 15.5″ x 0.07″ for splash protection	6 oz.	**23320**	**$6.95**
Lexan Faceshield – clear, 8″ x 15.5″ x 0.06″ for impact protection	7 oz.	**23321**	**$8.95**

Bullard® Faceshield and Brackets
3430

Fit Bullard C30 slotted safety caps.

Clear Acetate Visor – 8″ x 15″ x 0.040″, Bracket required	4 oz.	**23110**	**$7.25**
Visor Bracket for Cap	4 oz.	**23108**	**$12.25**

Model 3R Winter Liner
3466

Protects and warms the head, upper neck, and ears. Chinstrap with Velcro® fastener. Nylon tricot shell is quilted with foam and treated with flame retardant. Flame retardant until washed or dry cleaned. Lining is soft fleece. Standard size fits all. For use with any hard hat or cap.

Model 3R Winter Liner	2 oz.	**24451**	**$4.95**

3-in-1 Plush Fleece Winter Liner
8202

This versatile winter liner adjusts to be worn a variety of ways. Made of heavyweight polyester fleece, the liner traps warm air to keep your head, face, nose, ears, and neck warm. A drawstring allows for tightening to help block wind tunneling, and the liner's large eye opening won't hinder visibility. **Color:** Navy.

3-in-1 Plush Fleece Winter Liner	6 oz.	**24379**	**$14.25**
		10+	**$12.75**

HOWARD LEIGHT by Honeywell

Howard Leight® Thunder T2H Cap Mount Earmuffs
3426

NRR 25db

Turns most any slotted safety cap into a head and hearing protector. Features include "quick-lock" height adjustments, low-profile cups, and soft ear cushions. When not in use, muffs can be moved to a stand-by position just off the ears or to a rest position behind the safety cap. Slotted adapters included. For use with slotted safety caps only. Earmuffs meet ANSI Std. S3.19, 1974. **NRR:** 25.

Thunder T2H Cap Mount Earmuffs	11 oz.	**94121**	**$20.25**
		6+	**$18.95**

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ELVEX

Bullard

ELVEX

Elvex® Mesh Brushguard with Muffs
3427

NRR 27db

Ideal for workers who don't need to wear a hot hardhat, such as power brush cutter operators. The Brushguard combination is the perfect protection for work areas with noise levels above 85dB, where face protection is needed. Features include a set of Equalizer earmuffs with 27dB Noise Reduction Rating, and a strong, reliable nylon mesh visor.

Elvex Mesh Brushguard with Muffs	1 lb.	**24440**	**$23.50**

"Hat Saver" Holder
3468

Mounts easily on ceiling of your vehicle.

Spring-loaded swivel holds your hard hat securely and keeps it out of the way. Durable metal. For any hard hat or cap.

"Hat Saver" Holder	6 oz.	**24158**	**$17.50**

Saf-T-Rak
3469

Conveniently stores safety cap or hat in your car or truck.

Seat model fits snugly over front or back of seat. Wall model mounts inside the cab or other handy location. Window mount kit with suction cups and hardware allow you to convert wall model to window holder. For any make hard hat or cap. Heavy wire construction.

Seat Model	9 oz.	**24156**	**$10.75**
Wall Model	7 oz.	**24157**	**$10.75**
Window Mount Kit – for use with 24157	2 oz.	**24159**	**$7.10**

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EXTECH INSTRUMENTS

Extech® Dual Range Sound Level Meter
3480

Reads both A and C frequency weightings.

Features include two measuring ranges, fast/slow response, max hold with reset button, large 1/2″ LCD display, built-in calibration check (94 dB), auxiliary DC/AC conditioned outputs of 10mV/dB, and a 0.49″ condenser microphone. Accurate to 1.5 dB and also meets ANSI and IEC 651 Type 2 standards. ANSI Type 2 standards must be met for OSHA testing. Wind screen, hard vinyl case, and 9V battery included.

Measuring ranges: Low, 35 to 90 dB; High, 75 to 130 dB. **Accuracy:** 1.5 dB. **Resolution:** 0.1 dB. **Dimensions:** 9.5″ x 2.7″ x 1″.

Extech Dual Range Sound Level Meter 1 lb.		**94108**	**$279.99**

EXTECH INSTRUMENTS

Extech® Digital Sound Level Meter
6996

With digital display and analog bar graph.

The digital display accurately interprets measurement data to 0.1dB. Other features include a Record Mode which stores maximum and minimum levels for later recall and a Max Hold which freezes the maximum reading on the display. Wind screen and 9V battery included.

Range: 40 to 130 dB. **Accuracy:** ±2 dB @ 94 dB. **Resolution:** 0.1 dB. **Dimensions:** 9″ x 2.2″ x 1.7″.

Extech Digital Sound Level Meter 9 oz.		**94173**	**$89.99**

ELVEX

Elvex® QuieTunes™ Radio Earmuffs
4204

These earmuffs combine an AM/FM radio with hearing protection and are also iPod compatible. The radio electronics are separated from hearing protection cavities to avoid problems associated with moisture and sweat that can affect the lifespan of the electronics. The earmuffs feature a four-hour automatic shut-off, and the sound generated by the speakers is limited to a safe level by a gain limiter. **Noise Reduction Rating:** 22 dB.

QuieTunes 660 AM/FM Radio Earmuffs, Uses 2 AA alkaline batteries (included) that provide 150 hours of use.	1 lb.	**94130**	**$74.95**
QuieTunes 660R AM/FM Radio Rechargeable Earmuffs, Rechargeable model includes two NiMH AA batteries and a 120V charger.	2 lbs.	**94120**	**$90.75**
		4+	**$87.75**

ELVEX

Elvex® Com-610 Plug-in™ Receiver Earmuff
7425

Noise Reduction Rating* 25dB

Connect the Com-610 to an FM radio, MP3 player, communications radio, or similar device equipped with an output jack. Headset features a coiled cord with a 3.5mm stereo plug. Three plug adapters are included to accommodate a variety of devices (2.5mm stereo, 2.5mm mono, 3.5mm stereo). Once connected, you'll hear sound from your device up to the maximum sound level allowed by the headset (82dB limiter). Use the external volume control to adjust the sound level. Complies with ANSI S12.6-2008. **Noise Reduction Rating:** 25dB.

Elvex Com-610 Plug-in Receiver Earmuff	1 lb.	**94122**	**$56.50**
		4+	**$52.25**

ELVEX

Elvex® SuperSonic™ Earmuffs
3479

Noise Reduction Rating* 29db

These earmuffs have an excellent full spectrum attenuation. The SuperSonic™ is the lightest in its class and has a headband force of only 2-1/2 pounds. Other features include: wide Superseal™ ear cushions, fully dielectric construction, anti-vibration suspension, and oversized ear domes for superior acoustic properties. Fits in any position. Meet ANSI Standard S3.19-1974. **Noise Reduction Rating:** 29.

Elvex SuperSonic Earmuffs	11 oz.	**94114**	**$17.75**
		5+	**$16.75**

ELVEX

Elvex® UltraSonic™ Earmuff
3795

Noise Reduction Rating* 29dB

This high performance earmuff provides superior full spectrum and low frequency attenuation. The fork style padded headband provides even distribution of pressure and excellent balance for the extra deep cushioned ear cups. The steel headband withstands temperature extremes. Meets ANSI Standard S3.19-1974. **Noise Reduction Rating:** 29 dB.

Elvex UltraSonic Earmuff	10 oz.	**94166**	**$16.50**
		10+	**$14.95**

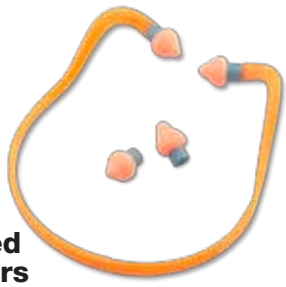
ELVEX

Elvex® MaxiMuff™
3473

Noise Reduction Rating* 28db

Excellent over-the-ear protection in more hazardous high frequency regions. Features a soft cushioned headband with low headband force for comfort, self-aligning suspension, easy adjustment, and SuperSeal ear cushions for long term comfort. **Noise Reduction Rating:** 28 db. Meets ANSI Standard S3.19-1974.

Elvex MaxiMuff	10 oz.	**94117**	**$12.50**
		10+	**$11.50**



HOWARD LEIGHT by Honeywell

Howard Leight QB2 HYG® Banded Hearing Protectors
3633

Noise Reduction Rating* 25dB

The patented band of these hearing protectors is specially designed to keep the ear pads from coming in contact with dirty or contaminated surfaces when hearing protection is not being worn. The soft foam ear pads fit easily inside the ear canal opening to provide comfortable supra-aural protection. One pair replacement pads included.

Howard Leight QB2 HYG Banded Hearing Protectors	2 oz.	**94153**	**$5.50**
		10+	**$4.95**

***Noise Reduction Rating.** Earmuffs with a high NRR offer better noise protection in high frequencies.

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PlugsSafety® Zip-Outs™
7867

Zip-Outs provide integrated hearing protection inside any hard hat and install in just seconds. Simply remove the backing from the 3M certified peel-and-stick adhesive, position the Zip-Out inside the top of the hard hat, and press. Tethered earplugs inside the Zip-Out extend over 10″ for easy insertion into ear canals. When not in use, the earplugs smoothly retract back inside the Zip-Out with a pull on the stainless-coated zipper slide.

PlugsSafety® Zip-Outs™ with DuraFoam™ Earplugs

Noise Reduction Rating* 30dB

The DuraFoam earplugs feature a conical shape for a comfortable roll-and-expand fit. **Noise Reduction Rating:*** 30dB.

Zip-Outs with DuraFoam Earplugs	1 oz.	**94109**	**$6.95**
		12+	**$6.60**
Replacement DuraFoam Earplugs, one pair	1 oz.	**94123**	**$0.70**
		100+	**$0.65**

*Noise Reduction Rating. Earmuffs with a high NRR offer better noise protection in high frequencies.

PlugsSafety® Zip-Outs™ with PermaPlug™ Earplugs

Noise Reduction Rating* 25dB

The PermaPlug earplugs feature a two-piece co-molded design for excellent fit, comfort, and durability. **Noise Reduction Rating:*** 25dB

Zip-Outs with PermaPlug Earplugs	1 oz.	**94110**	**$6.95**
		12+	**$6.60**
Replacement PermaPlug Earplugs, one pair	1 oz.	**94124**	**$1.10**
		100+	**$1.00**

*Noise Reduction Rating. Earmuffs with a high NRR offer better noise protection in high frequencies.

New! PlugsSafety® Retractable Earplugs for Hard Hats
4836

These retractable earplugs attach easily to the interior of your hard hat using Velcro® adhesive pads. The tethered earplugs extend over 15″, and push-button retractors provide secure, positive locking during use. Coiled springs quickly retract the earplugs back into the hard hat.

Retractable DuraFoam Earplugs, Noise Reduction Rating: 30dB.	1 oz.	**94174**	**$6.25**
		12+	**$5.50**
Retractable PermaPlug Earplugs, Noise Reduction Rating: 25dB.	1 oz.	**94175**	**$6.25**
		24+	**$5.50**
Replacement DuraFoam Earplugs, one pair	1 oz.	**94123**	**$0.70**
		100+	**$0.65**
Replacement PermaPlug Earplugs, one pair	1 oz.	**94124**	**$1.10**
		100+	**$1.00**

Elvex® Quattro™ Corded Earplugs
6963

Noise Reduction Rating* 25dB

These universal size ear plugs are designed to be used over and over again! Material is resistant to ear wax and body oils plus it is non-allergenic and non-irritating. The four flange design fits almost all ear canals and a stiff handle allows easy grip for insertion and removal. Provided with nylon cord and packaged in a plastic case with chain.

Quattro Corded Ear Plug	1 oz.	**94172**	**$1.75**
		50+	**$1.30**

3M™ Nitro™ Earplugs
3790

Noise Reduction Rating* 32dB

These ultra-soft foam earplugs offer superior noise reduction and all-day comfort. The tapered shape allows for easy insertion and provides a secure seal in the ear canal. CSA Class AL. Box of 200 includes an assortment of colors (orange, red, pink, and purple).

3M Nitro Earplugs	12 oz.	**94150**	**$34.25**
		3+	**$31.50**

3M™ No-Touch™ Earplugs
7701

Noise Reduction Rating* 29dB

Designed for easy, hygienic insertion with no roll down required! Simply grip the LiveWire stem of the earplug and insert. The soft foam's tapered shape hugs the ear canal for a secure fit and sure seal. CSA Class AL. NRR* 29dB.

3M No-Touch Earplug without Cord, Box of 100 pairs	14 oz.	**94154**	**$49.25**
3M No-Touch Earplug with Cord, Box of 100 pairs	1 lb.	**94155**	**$82.75**

Elvex® Blue™ PVC Earplugs
3485

Noise Reduction Rating* 32dB

Offers a high level of comfort, excellent noise reduction properties, easy insertion due to a tapered shape and moderately slow expansion rate, plus a high level of hygiene. Consistent quality control assures that expansion time and sound attenuation are consistent. Pairs are packaged in a polyethylene bag with illustrated usage in three languages.

With Cord, Box of 100 pairs	1 lb.	**94167**	**$23.75**
		3+	**$21.95**
Without Cord, Box of 200 pairs	1 lb.	**94129**	**$23.25**
		3+	**$21.50**

*Noise Reduction Rating. Earmuffs with a high NRR offer better noise protection in high frequencies.

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MSA® Comfo Classic® Respirators

4199

Excellent comfort and fit.

These respirators feature SoftFeel™ Hycar™ material for ultimate comfort and reduced slippage of the facepiece. A cradle head harness keeps the respirator secure while in use, and a metal yoke supports the facepiece body for additional strength. The respirator's face-seal design provides an outstanding fit.

Comfo Classic Respirator, Small	11 oz.	**23340**	**$51.25**
		3+	**$48.75**
Comfo Classic Respirator, Medium	11 oz.	**23341**	**$51.25**
		3+	**$48.75**
Comfo Classic Respirator, Large	11 oz.	**23342**	**$51.25**
		3+	**$48.75**
R95 Prefilter, Pack of 20	10 oz.	**23373**	**$50.95**
Retainer/Cover	1 oz.	**23374**	**$2.75**

Cartridges and Filters

Cartridge	Protection Against	Particle Size/Efficiency	Wt./Ea.	SN	Qty.	$	Qty.	$
GMA P-100	organic vapors and all particulate aerosols	99.97% efficient against 0.3 micron DOP	4 oz.	**23343**	1-5	**$16.75**	6+	**$15.95**
GMC OV/AG	organic vapors, chlorine, sulfur dioxide, chlorine dioxide, hydrogen chloride, and escape only from hydrogen sulfide	95% filter efficiency level	3 oz.	**23344**	1-9	**$8.50**	10+	**$8.25**
GMA Filter*	mists of paints, lacquers, and enamels; pesticides; organic vapors; dusts and mists	TWA not less than 0.05 mg/m^3 or 2 million particles/ft.^{3}	3 oz.	**23369**	1-9	**$8.50**	10+	**$8.25**

Note: For paint spraying protection, the following items are required: two GMA Filter/Cartridges (23369), R95 Prefilters (23373), and two Retainer/Covers (23374).
*Not for urethane or diisocyanate-containing paints.

Sundström Respirator Cleaning Wipes

2908

Use these wipes to clean and sterilize your respirator mask and parts daily. Pack of 50.

Sundström SR 5226 Cleaning Wipes			
7 oz.		**23332**	**$18.20**

Sundström Respirator Kits

2904

Non-allergenic and FDA approved! The P100 filter in combination with the unique design of the flexible Silicone respirator mask significantly cuts inhalation and exhalation resistance making the mask twice as easy to breathe through allowing breathing rates of more than 250 liters per minute. The NIOSH-approved P100 filter also eliminates 99.997% of particles. Other features include an adjustable V-shaped elastic head harness with large crown plate for added comfort. Ideal for "piggy-backing" with a variety of chemical cartridges. The silicone respirator is easy to maintain, clean and disinfect plus the distinct pre-filter system prevents premature clogging of the particulate filter and extends filter life.

Sundström SR 200 Pro Pack Kit

Ideal for several applications such as paint, dust, mold, glue, acid gas and more. Kit comes complete with 1 SR 200 Silicone respirator, 1 P100 particulate filter, 5 pre-filters, 1 SR 232 cartridge, 1 pre-filter holder, 1 user seal check disk, 1 user's manual, 1 ID label, and 1 storage box.

Small/Medium	1 lb.	**23318**	**$62.50**
Medium/Large	1 lb.	**23317**	**$62.50**

Sundström SR 200 Farm Pack Kit

Designed for the avid farmer covering applications ranging from pesticides, fertilizing, wood work, grinding, glue, mechanical repair, dust, hay, and more. The Farm Pack comes complete with 1 SR 200 Silicone respirator, 1 P100 particulate filter, 10 pre-filters, 1 SR 232 cartridge, 1 pre-filter holder, 1 SR 229 cartridge, 1 user seal check disk, 1 user's manual, 1 ID label, and 1 storage box.

Small/Medium	2 lbs.	**23325**	**$81.75**
Medium/Large	2 lbs.	**23324**	**$81.75**

Sundström SR 100 Wildland First Responder Kit

Intended for use in first responder settings when maximum protection is required against all types of particles, sparks and ash particulates. The Wildland First Responder Kit comes complete with 1 SR 100 Silicone respirator, 1 P100 particulate filter, 10 pre-filters, 1 pre-filter holder, 1 Spark arrester, 1 user seal check disk, 1 ID label, and 1 storage box.

Small/Medium	15 oz.	**23375**	**$54.95**
Medium/Large	1 lb.	**23376**	**$54.95**

Sundström Respirator Replacement Parts

SR 229 AM/MA Cartridge, Provides protection against certain levels of ammonia and methylamine. Use with the SR 510 to obtain protections against gas/vapor and aerosols.	7 oz.	**23308**	**$22.95**
SR 232 OV/SD/CL/HC/HF Cartridge, Provides protection against certain levels of organic vapor, sulfur dioxide, chlorine, hydrogen chloride and hydrogen fluoride. Combine with P100 particulate filter SR 510 for protections against gas/vapor and aerosols.	6 oz.	**23385**	**$23.95**
SR 336 Spark Protection, Protects filters against sparks and spatter that occur during welding, flame cutting and grinding.	1 oz.	**23384**	**$5.10**
SR 221 Pre Filter, Protects the P100 particulate filter against premature clogging.	1 oz.	**23314**	**$2.45**
SR 5153 Pre Filter Holder, Secures and protects the filter against handling damage.	2 oz.	**23328**	**$14.95**
SR 510 Particulate Filter, Protects against all types of particulate pollutants. Easily combines with chemical cartrdges.	2 oz.	**23377**	**$17.15**
SR 322 Test Disc, For user's personal seal check.	1 oz.	**23370**	**$6.25**

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3M™ 7500 Series Half-Mask Respirator
7558

Designed for ultimate comfort, this reusable respirator features a soft sealing surface and a 3M Cool Flow™ exhalation valve to make breathing easier. Made of durable silicone. Cartridges and filters sold separately. NIOSH approved.

Medium	6 oz.	**23258**	**$35.75**
		3+	**$33.25**
Large	6 oz.	**23259**	**$35.75**
		3+	**$33.25**

3M™ 6000 Series Half-Mask Respirator
7557

This reusable respirator features a lightweight facepiece and easy-to-adjust headstraps for superior comfort. The low-maintenance facepiece cleans up easily, and the low-profile design allows for better vision and accommodates safety glasses. Cartridges and filters (sold separately) can be easily replaced by simply twisting them on and off. NIOSH approved.

Medium	4 oz.	**23256**	**$15.95**
		3+	**$14.95**
Large	4 oz.	**23257**	**$15.95**
		3+	**$14.95**

3M 6000 Series Full Facepiece Respirator
3421

Lightweight and well-balanced, this respirator offers a wide field of vision and convenient low-maintenance design!

It features Cool Flow™ Exhalation Valve for easy exhalation and cool, dry comfort, odor removing filter material consisting of carbon layers, and electrostatically charged microfibers that make breathing easier and cooler and is appropriate for both oil- and non-oil-containing environments without time limitations. Mask only – order cartridges (sold separately) and filters (sold separately).

Medium	1 lb.	**23160**	**$155.75**
		3+	**$148.75**
Large	1 lb.	**23161**	**$155.75**
		3+	**$148.75**
Organic Vapor Cartridges, NIOSH/MSHA-approved. One Pair.	7 oz.	**23034**	**$13.50**
		10+	**$13.25**
Organic Vapor/Acid Gas Cartridges, For organic vapors, chlorine, hydrogen chloride, sulfur dioxide, or hydrogen fluoride. Meet NIOSH/MSHA specifications. One Pair.	7 oz.	**23035**	**$14.45**
		10+	**$13.60**

Filters and Retainers for the 3M 6000 & 7500 Series Respirators
3423

Individual HEPA Filter Adapter, For use with Filters 23152 and 23153.	1 oz.	**23145**	**$3.85**
		20+	**$3.10**
HEPA High Efficiency Filter P100, For dusts, fumes, mists, radionuclides, radon daughters, and asbestos. Meets NIOSH/MSHA Specifications. One Pair.	2 oz.	**23152**	**$8.25**
HEPA Dust/Mist Filter P95, Meets NIOSH/MSHA Specifications. One Pair.	1 oz.	**23153**	**$5.50**
Pesticide Prefilter P95, For paint spray, pesticide, dust and mist. Requires Prefilter Retainer 23144. Box of 10.	3 oz.	**23239**	**$21.75**
Individual Prefilter Retainer, For use with Pesticide Prefilter 23239.	1 oz.	**23144**	**$2.50**
		10+	**$2.35**

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JACKSON SAFETY* R10 Dual-Valve N95 Particulate Respirator
4714

Effective against non-oily particulates, this respirator features an adjustable Comfort Strap design that is preferred over the head straps of other N95 respirators, ensuring superior comfort while you work! No other non-valve N95 respirator features this revolutionary design. The dual exhalation valves are designed and positioned to reduce eyewear fogging. Features a soft, comfortable foam nose pad with a cloth layer. Latex-free. NIOSH N95 Approved.

R10 Dual-Valve N95 Particulate Respirator, Box of 10	10 oz.	**23138**	**$18.95**
		6+	**$17.95**

JACKSON SAFETY* R20 Dual-Valve P95 Particulate Respirators
4715

These respirators protect against dry and oily particulates or aerosols. A carbon layer absorbs nuisance levels of vapors to reduce irritation. Designed for comfort, each respirator features adjustable head straps and dual exhalation valves that are positioned to reduce eyewear fogging. Soft, comfortable, foam nose pad with cloth layer. Latex-free.

R20 Particulate Respirator with P95 AG Protection, Box of 10, Reduces exposure to nuisance levels of acid gases.	16 oz.	**23139**	**$34.50**
		6+	**$32.25**
R20 Particulate Respirator with P95 OV Protection, Box of 10, Reduces exposure to nuisance levels of organic vapors.	15 oz.	**23140**	**$34.50**
		6+	**$32.25**

3M 8210V N95 Particulate Respirator with Cool Flow™ Valve
7944

The perfect choice for hot, humid work environments! The proprietary 3M™ Cool Flow™ valve ensures easy exhalation and reduces heat build-up inside the respirator. Features an adjustable nose clip for a better fit and secure seal, cushioning nose foam, advanced electrostatically charged microfibers for easy breathing, and two-strap elastic headband design for a sure fit. Provides protection against certain non-oil based particles. Meets NIOSH specifications. Compliance number 42 CFR 84.

Model 8210V, Box of 10	8 oz.	**23142**	**$17.25**
		10+	**$15.50**

3M 8210 N95 Particulate Respirator
3411

Designed for general use, this high quality, economical half mask respirator has all the benefits of a self-supporting filter in an easy-to-use, one-piece design. It is lightweight with a comfortable noseclip that adjusts for fewer pressure points. Features advanced electrostatically charged microfibers which make breathing easier and cooler and is appropriate for both oil- and non-oil-containing environments without time limitation. Meets NIOSH specifications. Compliance number 42 CFR 84.

Model 8210, Box of 20	10 oz.	**23158**	**$18.95**
		6+	**$17.25**

3M 8511 N95 Particulate Respirator
3409

This durable half mask respirator is lightweight and comfortable with an innovative M-noseclip that adjusts easily to provide a reliable seal against the face and reduce eyewear fogging. The 3M™ Cool Flow™ Exhalation Valve helps reduce heat and humidity. Features electrostatically charged microfibers that make breathing easier and cooler and is appropriate for non-oil-containing environments without time limitations. Meets NIOSH specifications. Compliance number 42 CFR 84.

Model 8511, Box of 10	10 oz.	**23157**	**$24.25**
		6+	**$22.25**

3M 8271 P95 Particulate Respirator
3410

This durable half mask respirator is perfect for grinding, sanding and sawing in oil or non-oil aerosol environments. Features include a comfortable M-noseclip which fits securely against the face and reduces eyewear fogging, the Cool Flow™ Exhalation Valve for heat and moisture reduction, and a faceseal that provides a secure, comfortable fit across a wide range of face sizes. Meets NIOSH specifications. Compliance number 42 CFR 84.

Model 8271, Box of 10	10 oz.	**23156**	**$40.95**
		6+	**$39.25**

Gerson® Nuisance Dust Masks
3408

Comfortable relief against the irritating effects of non-toxic nuisance dusts such as pollen, powders, cut grass, and other airborne irritants. The contoured design provides maximum field of vision, even with glasses, and they do not interfere with breathing or speech. Flexible metal nosepiece adjusts to fit facial contours while the elastic headband holds the mask comfortably against the face without undue pressure. Box of 50.

Model 1501, Box of 50	9 oz.	**23095**	**$8.75**
		5+	**$7.95**
		10+	**$7.25**

WARNING: This mask is not a respirator, it does not meet NIOSH specifications, and it does not provide lung protection. Do not use with spray painting, sand blasting or working with asbestos, pesticides, herbicides or gas vapors.

Gerson® N95 Dust and Mist Respirators
3407

Maximum performance, comfort, and durability! The special micro-fiber filter, adjustable aluminum nosepiece, and inner foam seal ensure a safe, secure fit while a soft inner lining, smooth, prestretched headstraps, and new low-profile design which easily accepts safety eyewear provide exceptional all-day comfort. And, for long lasting durability, welded double-shell construction and superior polymer headstraps are incorporated into every respirator. Meet NIOSH and MSHA specifications for dust and mists.

Model 1730, Box of 20	9 oz.	**23096**	**$16.50**
		6+	**$14.95**

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Kimberly-Clark PROFESSIONAL

KleenGuard A30 Breathable Splash & Particle Protection Coveralls

2939

With open wrists and ankles.

These protective coveralls are constructed of patented Microforce Barrier SMS Fabric that is 25 times more breathable than Tyvek® and offers comparable particle holdout. The fabric features cloth-like, tough outer layers of abrasion-resistant spunbound polypropylene, and the middle layer incorporates an intricate web of microfibers that filter out many water-based liquids and dry particulates. The Reflex design is 7.5 times less likely to rip out than ANSI minimums and also provides 12% more chest room and 6% longer body length. The seamless front ensures extra protection in primary exposure areas. The coveralls feature a zipper front with 1″ flap and an elastic back. NFPA 99 compliant antistatic material. White.

Medium		
8 oz.	**33307**	**$5.95**
	25+	**$5.60**
	100+	**$4.85**
Large		
8 oz.	**33304**	**$5.95**
	25+	**$5.60**
	100+	**$4.85**
X-Large		
8 oz.	**33310**	**$5.95**
	25+	**$5.60**
	100+	**$4.85**
XX-Large		
8 oz.	**33398**	**$5.95**
	25+	**$5.60**
	100+	**$4.85**
XXX-Large		
8 oz.	**33414**	**$7.15**
	25+	**$6.60**
	100+	**$5.75**
XXXX-Large		
8 oz.	**33301**	**$7.15**
	25+	**$6.60**
	100+	**$5.75**

Kimberly-Clark PROFESSIONAL

KleenGuard A30 Breathable Splash & Particle Protection Coveralls

2939

With elastic wrists, ankles, and hood.

These protective coveralls are constructed of patented Microforce Barrier SMS Fabric that is 25 times more breathable than Tyvek® and offers comparable particle holdout. The fabric features cloth-like, tough outer layers of abrasion-resistant spunbound polypropylene, and the middle layer incorporates an intricate web of microfibers that filter out many water-based liquids and dry particulates. The Reflex design is 7.5 times less likely to rip out than ANSI minimums and also provides 12% more chest room and 6% longer body length. The seamless front ensures extra protection in primary exposure areas. The coveralls feature a zipper front with 1″ flap and elastic back, hood, wrists, and ankles. NFPA 99 compliant antistatic material. White.

Medium		
8 oz.	**33308**	**$6.75**
	25+	**$6.25**
	100+	**$5.50**
Large		
8 oz.	**33305**	**$6.75**
	25+	**$6.25**
	100+	**$5.50**
X-Large		
8 oz.	**33386**	**$6.75**
	25+	**$6.25**
	100+	**$5.50**
XX-Large		
8 oz.	**33401**	**$6.75**
	25+	**$6.25**
	100+	**$5.50**
XXX-Large		
8 oz.	**33418**	**$7.95**
	25+	**$7.45**
	100+	**$6.45**
XXXX-Large		
8 oz.	**33302**	**$7.95**
	24+	**$7.45**
	100+	**$6.45**

Kimberly-Clark PROFESSIONAL

KleenGuard A30 Breathable Splash & Particle Protection Coveralls

2939

With elastic wrists, ankles, hood, and boots.

These protective coveralls are constructed of patented Microforce Barrier SMS Fabric that is 25 times more breathable than Tyvek® and offers comparable particle holdout. The fabric features cloth-like, tough outer layers of abrasion-resistant spunbound polypropylene, and the middle layer incorporates an intricate web of microfibers that filter out many water-based liquids and dry particulates. The Reflex design is 7.5 times less likely to rip out than ANSI minimums and also provides 12% more chest room and 6% longer body length. The seamless front ensures extra protection in primary exposure areas. The coveralls feature a zipper front with 1″ flap and elastic back, hood, wrists, ankles, and boots. NFPA 99 compliant antistatic material. White.

Medium		
8 oz.	**33309**	**$7.40**
	25+	**$6.80**
	100+	**$5.90**
Large		
8 oz.	**33306**	**$7.40**
	25+	**$6.80**
	100+	**$5.90**
X-Large		
8 oz.	**33391**	**$7.40**
	25+	**$6.80**
	100+	**$5.90**
XX-Large		
8 oz.	**33402**	**$7.40**
	25+	**$6.80**
	100+	**$5.90**
XXX-Large		
8 oz.	**33419**	**$8.70**
	25+	**$8.10**
	100+	**$6.95**
XXXX-Large		
8 oz.	**33303**	**$8.75**
	25+	**$8.10**
	100+	**$7.00**

ONGUARD INDUSTRIES

Onguard 12″ Boot Covers

3563

Durable 0.70mm latex rubber protects boots from a wide range of hazardous and non-hazardous materials. Designed to provide a snug fit over existing footwear. Seamless and waterproof. Ribbed, textured soles for safe, sure traction. Bright yellow color for added visibility in the field.

Sizes 10 and under		
10 oz.	**93658**	**$7.50**
	10+	**$6.95**
	20+	**$6.35**
Sizes 11 and over		
10 oz.	**93659**	**$7.50**
	10+	**$6.95**
	20+	**$6.35**

ONGUARD INDUSTRIES

Onguard FLEX 3 15″ Plain Toe Kneeboot with Power-Lug Outsole

7037

Soles are constructed of a high-density, abrasion-resistant compound, feature lower toe spring to better distribute weight and reduce stress on your back, and have a special pattern that channels out debris and increases traction. The cut-off band contours to the leg for comfort while a wide shaft accommodates pants leg. Snug ankle fit to reduce heel slippage, low-density heel material to absorb impact and reduce strain on heel bone, extended steel shank for heel and instep support, and built-in arch support. Made in USA.

Size 6	4 lbs.	**93380**	**$39.50**
Size 7	5 lbs.	**93381**	**$39.50**
Size 8	5 lbs.	**93382**	**$39.50**
Size 9	5 lbs.	**93383**	**$39.50**
Size 10	5 lbs.	**93384**	**$39.50**
Size 11	5 lbs.	**93385**	**$39.50**
Size 12	6 lbs.	**93386**	**$39.50**
Size 13	6 lbs.	**93387**	**$39.50**

Note: All sizes listed are men's sizes. A woman should order the men's size which is two sizes smaller than the women's size she wears (e.g., men's size 5 would be equivalent to a women's size 7).

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Wells Lamont® PVC Sports Gauntlet Gloves pages 377 & 394

WYPALL Waterless Cleaning Wipes pages 32 & 722

Heavy-Duty Waterless Hand Cleaner with Grit

8560

To use, simply rub into skin, wait a few seconds, and wipe off the grime with a cloth or towel. Water may also be used. Gel has fine pumice to remove grime, ink, grease and paint. Smooths rough, dirty hands and aids dry, damaged skin. Non-greasy, non-petroleum base. Neutralizes gasoline, paint, and diesel odors. Completely biodegradable - based on renewable corn-oil.

Heavy-Duty Waterless Hand Cleaner with Grit		
1 lb.	**33314**	**$7.75**
	12+	**$7.25**

Duct Tape

3405

Use this tape to seal gloves and boots to protective suits – makes chemical handling even safer! Heavy-duty cloth, 2″ wide x 180′ long. Silver.

Duct Tape		
1 lb.	**47543**	**$13.50**
	6+	**$12.50**

Tyvek®

DuPont® Tyvek® Safety Wear

7654

Made of DuPont Tyvek, this safety wear offers an outstanding balance of protection, durability, and comfort! The tough, lightweight material provides an inherent barrier of protection against dry particulate hazards. These safety garments are ideal for use in a variety of work environments including general maintenance/operations, agriculture, spray painting, food processing, lead abatement, mold remediation, environmental cleanup, and asbestos abatement.

DuPont Tyvek Boot Covers

Designed to fit over your own footwear. These boot covers feature skid-resistant PVC soles, stress-resistant serged seams, and elastic at the top. 18″ High.

DuPont Tyvek Boot Covers, Case of 100 (50 pairs)		
5 lbs.	**32531**	**$115.50**

DuPont Tyvek Sleeves

These protective sleeves feature elastic at both ends for a snug fit and durable serged seams. 18″ Long.

DuPont Tyvek Sleeves, Case of 200 (100 pairs)		
5 lbs.	**32532**	**$110.50**

DuPont Tyvek Apron

This bib style apron offers full protection, features serged seams for strength, and ties in the back for a secure, custom fit. **Dimensions:** 28″ x 36″.

DuPont Tyvek Aprons, Case of 100		
8 lbs.	**32530**	**$165.25**

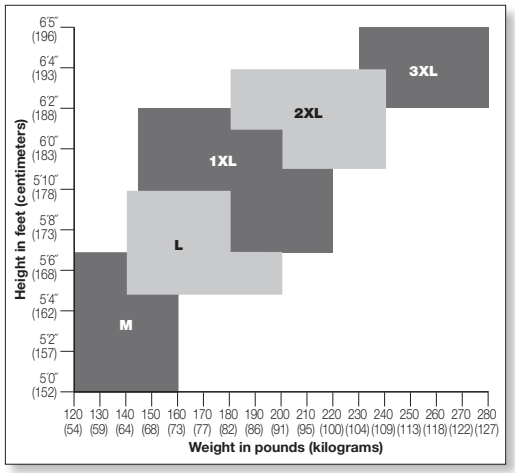
Tyvek®

Safety You Can Wear... Protective Apparel made of DuPont® Tyvek™!

3402

DuPont is a leader in developing materials that act as highly effective barriers against hazards. Apparel made of DuPont Tyvek® material combine the best qualities of film, woven fabric, and paper. DuPont Tyvek® is a tough, lightweight fabric that has outstanding tensile and tear strength, is equally strong (wet or dry) and is treated with a topical antistatic agent to minimize static build-up.

- DuPont Tyvek® resists water penetration, is nonabsorbent, and offers you excellent splash protection.
- DuPont Tyvek® performs well in all types of hostile work environments.
- DuPont Tyvek® is 100% polyethylene and is chemically and biologically inert. Its physical properties are virtually unaffected by most organic and inorganic chemicals including acids, bases, and salts. DuPont Tyvek™ garments of spunbonded olefin are disposable, eliminating costly decontamination procedures.
- DuPont Tyvek® garments provide an effective barrier against skin exposure during mixing, loading or spraying agricultural chemicals (the most common cause of worker poisoning).
- DuPont Tyvek® garments provide highly effective protection against fibers, such as Asbestos, or particle contaminants down to sub-micron size.
- DuPont Tyvek® clothing can be used in contamination controlled environments (cleanrooms). The high-density polyethylene contains no additives to flake off and cause contamination. In addition to the above applications, DuPont Tyvek® protective clothing can be used while sandblasting, painting or spraying, or processing food.



Selecting The Best Fit

All DuPont Tyvek® ProtectiveWear® apparel complies with the latest ANSI sizing standards. In keeping with our quality requirements, DuPont Tyvek® ProtectiveWear® is also required to pass dynamic fit tests that match it against demanding critical stretches common in industrial work. As a result of this up-to-date garment sizing and fit-testing, the DuPont Tyvek® ProtectiveWear® garment design can reduce rips and tears. Workers will also appreciate a fit that is consistent from garment to garment.

An offering of styles and a range of sizes from medium through 4X large accommodate both men and women in a variety of jobs and environments. All garments meet the latest ANSI sizing standards and are designed with ample room so they can be worn over street clothes.

Tyvek® and Tychem® are DuPont registered trademarks.

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General Purpose Tyvek™ Coveralls

Tough, tear, snag and puncture-resistant spun-bonded white DuPont Tyvek™ resists penetration by most organic chemicals, asbestos, and toxic dusts. Surge seams are rolled for additional strength and smooth fit. Zippers are spark proof. Strong synthetic thread is used for less linting and added strength. These coveralls are opaque to eliminate show-through and can be worn comfortably over undergarments only or over street clothes. Zipper front closure. The coveralls without a hood feature open wrists and ankles. The hooded coveralls feature a respirator fit and have elastic wrists and ankles. White.

DuPont Tychem® QC Special Purpose Yellow Coveralls

Tough, tear, snag and puncture-proof spun bonded yellow DuPont Tyvek™ coated with a heavy-duty yellow polyethylene film. Grease and oil-resistant. Waterproof and impervious to certain liquids and chemicals. Surge seams are rolled for additional strength and smooth fit. Zippers are spark proof. Ideal for maintenance and highway work. The coveralls without a hood feature open wrists and ankles. The hooded coveralls feature a respirator fit and have elastic wrists and ankles. Yellow.

DuPont Tychem® SL Superior Protection Coveralls

Offers superior resistance to chemical permeation by PCBs and other hazardous solvents. Made of white DuPont Saranex™ Tyvek™, a film of Saran resin sandwiched between two layers of polyethylene. Provides a good protective barrier from liquids of many kinds, an effective, reliable shield against heavy sprays and wet conditions. The hooded coveralls feature a respirator fit and have elastic wrists and ankles. Bound seams. White.

		M	L	X-L	XX-L	XXX-L	XXXX-L	Wt.	Each	25+	100+
General Purpose Tyvek™ Coveralls	Without Hood open wrists and ankles	33323	33324	33336				5 oz.	$6.30	$5.80	$5.25
					33395			6 oz.	$7.00	$6.30	$5.55
						33364		6 oz.	$7.40	$6.65	$5.85
							33365	6 oz.	$7.50	$6.95	$6.25
	With Hood elastic wrists and ankles	32513	32514	32519				5 oz.	$8.45	$7.60	$6.70
					32525			6 oz.	$8.95	$8.15	$7.05
						33366		6 oz.	$9.15	$8.35	$7.25
							33367	7 oz.	$10.20	$9.15	$8.10
DuPont Tychem® QC Special Purpose Yellow Coveralls	Without Hood open wrists and ankles	32501	32502	32520				8 oz.	$11.75	$10.10	$9.00
					32526			10 oz.	$12.35	$10.40	$9.35
						33368		11 oz.	$12.25	$10.50	$9.50
							33369	11 oz.	$13.25	$11.25	$10.25
	With Hood elastic wrists and ankles	32516	32517	32521				9 oz.	$12.20	$10.30	$9.50
					32527			11 oz.	$13.10	$10.95	$9.90
						33371		12 oz.	$13.50	$11.50	$10.50
							33374	12 oz.	$13.95	$11.75	$10.75
DuPont Tychem® SL Superior Protection Coveralls	With Hood elastic wrists and ankles	32510	32511					14 oz.	$21.65	$19.20	
				32523				15 oz.	$21.75	$19.25	
					32529			1 lb.	$23.20	$20.20	
						33379		1 lb.	$23.25	$20.25	
							33381	1 lb.	$24.95	$21.95	

*The hooded coveralls feature a respirator fit.

Tyvek®, Tychem® and Saranex® are registered trademarks of E.I. DuPont de Nemours and Company.

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Supreme 22 mil Nitrile Gloves
3515

Provides excellent resistance to many solvents while also providing puncture and abrasion resistance. Great for use in plant maintenance, painting, laboratories, chemical handling and clean-up, plus many other uses. Made of heavy-weight, 22 mil thick nitrile. Features a raised diamond palm pattern for extra grip when wet. 17″L with straight cuff. Green.

Maxi-Guard™ 16 mil Nitrile Gloves
3516

Lined or Unlined

Used in chemical plants, labs, industrial waste clean-up, food processing, and many other uses. Features a diamond palm pattern for excellent grip. Available either flock-lined or unlined. 12-3/4″L. Green.

		Medium – Size 8	Large – Size 9	X-Large – Size 10	Weight	Pair	12+	24+
Supreme 22 mil		94072	94047	94048	6 oz.	$8.20	$7.35	—
Maxi-Guard	Flock-Lined	94074	94049	94050	3 oz.	$3.00	$2.35	$2.25
	Unlined	90938	90939	90940	3 oz.	$2.95	$2.55	$2.35

Flock-Lined, 18 mil Latex Gloves
3517

Made of medium weight latex, these liquidproof gloves are designed for waste disposal, labwork, plant maintenance, painting, and many other uses. 12″L gloves are flexible and flock-lined for comfort. Rolled cuff. Diamond palm pattern for extra grip when wet. Box of 12 pairs. Yellow.

13″ Nitrile Gloves
4106

These premium quality, 9.0 mil unsupported Nitrile gloves contain absolutely no natural rubber latex or NRL proteins and have been chlorinated for added chemical resistance. Unlined. Features include raised diamond grip, straight cuff and they are hand specific. Compliant with 21CFR, 170,199 USDA for use in food and pharmaceutical applications. Box of 12 pairs.

	Medium – Size 8	Large – Size 9	X-Large – Size 10	Pairs/Box	Weight	1-11 Boxes	12+ Boxes
Flock-Lined, 18 mil	94071	94045	94046	12	2 lbs.	$14.25	$13.50
13″ Nitrile Gloves	77078	77079	77077	12	1 lb.	$16.50	$15.25

Disposable Thin Wall 5 mil Latex Gloves
3611

Powdered or Powder-Free

USDA accepted. Unsterilized. For use in labs, food processing, chemical plants, anywhere protection and dexterity are important. Box of 100. White, 9-1/2″ long.

Ambidex™ Disposable 4 mil Nitrile Gloves
2530

Made from component materials which comply with FDA Regulations for food contact. Contain no natural rubber latex proteins. Strong, flexible, and more chemical-resistant than latex. Ambidextrous. Box of 100 gloves (50 Pair). Available powdered or powder-free.

Disposable 13 mil Powdered Latex Gloves with 12″ Cuff
2682

These extra-thick, disposable latex gloves are 13 mil thick and 12″ long for added protection. The textured grip and tear-resistance of these gloves make them ideal for painting, agricultural, waste disposal, and many other applications. Box of 50.

		Small	Medium	Large	Extra Large	Weight	1-9 Boxes	10+ Boxes
Thin Wall 5 mil	Powdered	77073	77083	77084	77091	1 lb.	$6.95	$6.40
	Powder-Free	77061	77075	77076	77062	1 lb.	$7.45	$6.55
Ambidex	Powdered	77046	77030	77031	77049	2 lbs.	$11.50	$10.35
	Powder-Free	77027	77032	77033	77028	2 lbs.	$11.75	$10.75
13 mil Powdered	Powdered	94011	94012	94010	94013	2 lbs.	$20.75	$19.50

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Whitewater Outdoors® Fleece-Lined Neoprene Gloves
2896

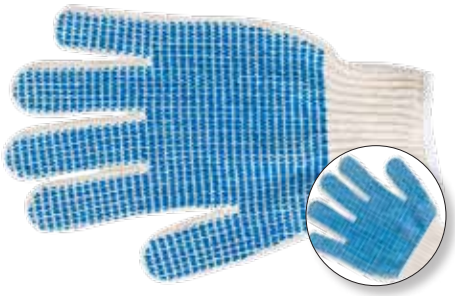
Durable 3mm Neoprene gloves provide 100% waterproof protection. Rubberized palm ensures excellent grip even in slippery conditions. Double-reinforced seams.

Non-Slip Planting Gloves
1599

Non-slip rubber bead covering, 70% nylon, 30% polyester. Cold water washable. Buy them by the dozen and save!

Black Dot Canvas Gloves
3503

Hob-nob dots on palm, forefinger and thumb of these gloves provide a quick, easy grip. 10 oz. Cotton flannel material, white knit wrist, and clute cut make them lightweight and comfortable.



Grip N Glove
3504

A unique PVC "N-tread" coating provides non-skid grip and abrasion resistance. No seams means superior finger dexterity. Will not chafe or tear. Reversible, wear on either hand for longer life. 12″ Long.

WELLS LAMONT
Industrial

Wells Lamont® "Handy Hands" Brown Jersey Gloves
3501

It's like wearing your favorite jersey on your hands! Made of 9 oz., poly/cotton blend jersey fabric that stretches for maximum comfort. Clute cut with snug knit wrist.

	Cuff	Small	Medium	Large	X-Large	Weight	Pair	12+	36+
Fleece-Lined Neoprene Gloves			**94079**	**94080**	**94081**	4 oz.	**$14.95**	—	—
Non-Slip Planting Gloves		**69136**	**69137**	**69138**		5 oz.	**$2.75**	**$2.30**	**$1.95**
Black Dot Canvas Gloves	Knit Wrist/Clute Cut			**91082**		3 oz.	**$3.25**	**$2.95**	**$2.25**
	Cuff		**Men**	**Women**		**Weight**	**Pair**	**12+**	**36+**
Grip N Glove			**91000**	**91001**		3 oz.	**$2.95**	**$2.35**	**$1.50**
Wells Lamont "Handy Hands" Brown Jersey	Clute Cut/Snug Knit Wrist		**91040**	**91045**		2 oz.	**$3.15**	**$2.35**	**$1.60**

Lineman's Gloves
3511

Made by standard multiple-dip process – black rubber over red rubber. Wtih any significant physical damage from snagging or cutting, the black outer layer will be penetrated and the high visibility red interior warns you to replace the glove.

Low Voltage Gloves
3512

Made of natural rubber, these gloves are for use on circuits of up to 1,000 volts. Widely used in meter departments and other low voltage applications.

	Size	L	Test Class	AC Max. Voltage	Use Voltage*	Weight	SN	$
Lineman's	10	14″	1	10KV	7,500	1 lb.	**26952**	**$146.25**
	10	14″	2	20KV	17,000	2 lbs.	**26954**	**$198.25**
Low Voltage	9	11″	0	5KV	1,000	11 oz.	**26971**	**$76.25**
	10	11″	0	5KV	1,000	12 oz.	**26972**	**$76.25**

*AC maximum Use voltage in accordance with ASTM D120-87.

WELLS LAMONT
Industrial

Kevlar® Gloves
3522

Made of the same unique Kevlar® material found in chainsaw chaps.

Provide superior resistance to cutting edges. Ideal when handling sharp objects such as knives, saws or barrels with sharp inner edges.

Medium	2 oz.	**90919**	**$8.30**
		12+	**$6.90**
		24+	**$6.10**
Large	2 oz.	**90904**	**$8.30**
		12+	**$6.90**
		24+	**$6.10**

Note: Gloves will resist cuts and abrasions, but will not resist direct punctures.

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TOWA® PowerGrab Plus Gloves
7547

These gloves feature a seamless cotton/polyester liner and latex rubber coated palm and fingertips. The MicroFinish® coating provides a sure grip by reacting like tiny suction cups that attach themselves firmly to the material being handled. The uncoated back allows your hands to breathe.

Great White™ Dyneema® Cut-Resistant Work Gloves
7546

Feature a Dyneema®/Lycra® seamless shell and polyurethane coated palm and fingers for superior puncture and abrasion resistance. Dyneema® polyethylene fibers are 10 to 15 times stronger than steel and more durable than polyester. Washable and resistant to chemicals, water, and ultraviolet light.

G-Tek® Force Work Gloves
7545

Latex "Crinkle" Grip Coated Palms

The unique "crinkle" finish of these gloves provides superior grip in wet and dry applications. Gloves are coated on the palm, fingertips and full thumb with blue latex rubber. Seamless cotton/polyester shell. Ideal for assembly, construction, inspection, material handling, refuse handling, landscaping, and gardening.

G-Tek® NPG Work Gloves
7545

Urethane Coated Palms

Polyurethane coated palm and fingers ensure abrasion resistance. The seamless knit nylon shell provides excellent dexterity, and a breathable back offers cool comfort. Ideal for use in electronic and computer assembly, quality control, inspection, and general assembly.

G-Tek® Air Force™ Work Gloves
7545

PVC Coated Palms

Air-infused PVC coated palm and fingers provide outstanding wet and dry grip. The seamless knit nylon shell offers superior tactile sensitivity. These abrasion-resistant gloves are perfect for manufacturing and assembly applications where abrasion, cut, and puncture resistance is vital.

G-Tek® MaxiFlex™ Work Gloves
7545

Micro-Foam Nitrile Coated Palms

Breathable micro-foam nitrile coating on the palm and fingertips keeps hands cool and dry. Features a 15 gauge seamless knit nylon liner. Designed to produce minimal lint and dust. Ideal for applications requiring a high degree of dexterity, such as handling small oily parts and components, general assembly, machining, micro-engineering, automotive tasks, painting, and horticulture applications.

Nylon Knit Work Gloves

Brand	Style	Medium	Large	X-Large	Weight	Pair	12+
Towa	PowerGrab Plus	**90889**	**90890**	**90891**	3 oz.	**$4.70**	**$3.95**
Great White	Dyneema	**90886**	**90887**	**90888**	2 oz.	**$10.90**	**$9.30**
G-Tek	Force	—	**90935**	—	4 oz.	**$3.70**	**$3.00**
	NPG	**90872**	**90873**	**90874**	1 oz.	**$2.00**	**$1.50**
	Air-Force	**90880**	**90881**	**90882**	2 oz.	**$3.80**	**$3.25**
	MaxiFlex	**90883**	**90884**	**90885**	2 oz.	**$4.85**	**$4.40**

New! OK-1® Anti-Vibration Premium Curve Technology Gloves
4742

Anti-vibration gloves feature visco-polymer padding and a pre-curved design. Constructed of premium full grain leather with a four-way stretch nylon back. Washable.

Medium	5 oz.	**90941**	**$37.95**
Large	6 oz.	**90942**	**$37.95**
X-Large	6 oz.	**90943**	**$37.95**

Glove Guard®
3495

Attaches to a belt loop, coveralls, back supports, or clothing to keep your gloves within easy reach!

Constructed of completely dielectric, high-impact plastic with a built-in no-tangle swivel. Fits all safety and PPE programs. Has a 15 lb. safety break-away.

Glove Guard	1 oz.	**90924**	**$4.95**

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Kinco® Unlined Grain Pigskin High-Visibility Gloves
2503

These grain pigskin gloves feature a high-visibility 3M™ Scotchlite reflective stripe on the nylon back. Safety cuff.

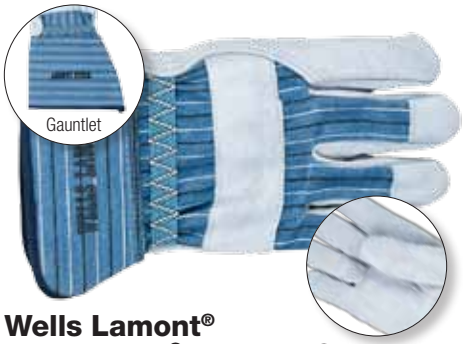
Unlined	Medium	Large	Weight	Pair	12+
Safety Orange	90952	90953	5 oz.	$15.25	$14.25
Hi-Vis Lime	90948	90949	4 oz.	$15.25	$14.25

WELLS LAMONT
Industrial

Wells Lamont® Thermofill™-Lined Leather Palm Gloves
7957

Thermofill™ lining provides excellent thermal protection. Premium pigskin leather palm. Gunn cut, wing thumb.

Medium	Large	X-Large	Weight	Pair	12+
90920	90921		6 oz.	$10.75	$9.95
		90922	6 oz.	$10.75	$9.95



Wells Lamont® White Mule® Leather Gloves
3488

The palm, thumb, full forefinger, fingertips, knuckle strap and continuous heel are constructed of selected pearl side split leather for strength and durability. Flannel-lined palm and 100% cotton back with gunn cut design assure you a comfortable fit. Thumb cut, elastic strap at wrist, and rubberized safety cuff.

Wells Lamont® Double Palm Leather Gloves
3489

Durable, economical gloves. Each glove features select shoulder leather fully wrapped around the wing thumb and index finger, across the knuckle strap, on the heel, over the finger tips, and doubled in the palm. Hidden gunn cut seams, flannel lined palm, safety cuff, and shirred cotton back.

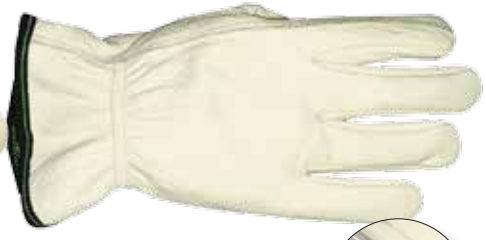
Wells Lamont® Leather Palm Gloves
3490

This glove is sewn with DuPont Kevlar® thread and offers a superior grip and comfortable fit. Full featured with wing thumb and safety cuff.

WELLS LAMONT
Industrial

Wells Lamont® Palomino Grain Cowhide Gloves
3500

Made of Palomino grain cowhide. Ball and tape wrist closure for snug fit. Keystone thumb and self hem. Gunn cut provides extra comfort and long lasting wear.



Wells Lamont® Grain Goatskin Gloves
3499

Top quality goatskin with natural and added lanolin. Excellent dexterity and comfortable fit. Gunn cut, keystone thumb, and bound hem.

Wells Lamont® Top Grain Pigskin Gloves
3492

These top grain pigskin gloves are specially tanned to remain flexible after being exposed to moisture. Feature hidden gunn cut seams, easy slip-on double shirred cuffs, and keystone thumb for more comfortable fit.

	Cuff	X-Small	Medium	Large	X-Large	Weight	Pair	12+
White Mule Leather	Safety	91028	91027			8 oz.	$11.65	$10.65
				91049	91037	9 oz.	$11.65	$10.65
	Gauntlet			91050	91041	12 oz.	$12.15	$11.15
Double Palm Leather				90911	90912	7 oz.	$5.25	$4.75
Leather Palm	Safety		90916	90917	90918	9 oz.	$7.95	$6.75
Palomino Grain Cowhide	Self-Hem		91034	91036	90934	5 oz.	$19.40	$17.65
Grain Goatskin	Bound Hem, Gunn Cut		91475	91474	91033	4 oz.	$13.85	$12.75
Grain Pigskin	Double Shirred		90909	90910		4 oz.	$8.70	$7.35
					90936	4 oz.	$9.30	$7.85

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New! Youngstown FR Waterproof Leather Gloves Lined with Kevlar®

4972

Flame-Resistant. Made of goatskin leather reinforced with 100% Kevlar® lining for cut resistance to Level 2 on ANSI/ISEA 105-2005 Standard. 4″ safety cuff and the 3D performance glove pattern form fits the hand. Double layer of goatskin reinforces fingertips, thumb, and palm. Extra knuckle reinforcement. Meets NFPA 70e - 2012 Standard. Exceeds ASTM F2302 and D6413 Standard. ARC Rated 50 cal/cm² (HRC 4).

New! Youngstown FR Mechanics Hybrid Gloves

4972

Flame-Resistant. Nomex® on the top of this versatile glove provides flame resistance and outstanding breathability. The goatskin palm is lined with 100% Kevlar® to offer cut resistance that rates Level 2 on ANSI/ISEA 105-2005. Second layer of goatskin on the fingertips, saddle, and thumb for extra durability. Ergonomic, 3D pre-curved glove pattern. Easy on/off slip-fit cuff. Meets NFPA 70e - 2012 Standard. Exceeds ASTM F2302 and D6413 Standard. ARC Rated 12 cal/cm² (HRC 2).

Youngstown Mesh Utility Plus Gloves

2899

Designed for hot working conditions! Ultra breathable mesh on the top of this all-purpose, abrasion-resistant glove keeps hands cool and comfortable. The heavy-duty, non-slip, reinforced palm, fingers, and thumb provide a sure grip and excellent durability. Use the terry cloth thumb to wipe away sweat and debris. Adjustable Velcro® closure on the cuff.

Youngstown Waterproof Winter Gloves

2902

Offering warmth and excellent visibility, perfect for DOT professionals, airport operations personnel, employees of municipalities, and others working in cold weather conditions! Waterproof and windproof, the gloves feature high-visibility material on the top and reflective 3M Scotchlite™ on the knuckle and wrist. An insulating micro-fleece liner ensures warmth, and the form-fit outer shell maintains dexterity. Non-slip reinforcements on the palm, fingers, and thumb provide a sure grip. Velcro® closure on the cuff.

Youngstown Waterproof Winter Plus Gloves

2903

This all-purpose winter work glove is 100% waterproof and windproof. The triple layer design includes a micro-fleece liner for warmth, a breathable waterproof membrane, and a form-fit outer shell to maintain dexterity. Flexible Clarino™ non-slip palm reinforcements provide a sure grip. Other features include internal knuckle protection on top, double-stitched bonded nylon thread for long life, and a terry cloth thumb. Velcro® closure on the cuff.

Youngstown Pro XT Gloves

2901

Built to withstand heavy-duty work like logging, landscaping, demolition, or farming! Non-slip reinforcements on the palm, fingers, and thumb ensure excellent grip, and a one-piece saddle design reinforces critical wear areas. The top of the glove features double knuckle protection and moisture-wicking fabric. Wipe away sweat with the terry cloth thumb. The extended cuff features a Velcro® closure, protects the wrist bone, and adds support.

Youngstown Safety Utility Gloves

7675

High-visibility stretch nylon on the back of the hand wicks away heat and moisture. Reflective 3M Scotchlite™ on the knuckle and wrist further boosts visibility. The glove also features a water- and oil-resistant synthetic suede base layer and extensive non-slip reinforcement. Terry cloth thumb for wiping away sweat. Supportive cuff with adjustable Velcro® closure. Double-stitched bonded nylon thread for extended life.

Youngstown Ropework XT™ Gloves

7674

Specially designed for arborists, rescue personnel, and other rope access professionals. This ergonomic glove features ultra tacky Ropegrip™ palm reinforcement to provide a sure grip. The top of the glove is lined with Kevlar® for cut-resistance, and the foam padded palm base dampens shock. Terry cloth thumb for wiping away sweat. Supportive cuff features an adjustable Velcro® closure and a heavy duty grommet.

Youngstown General Utility Plus Gloves

7673

This all-purpose glove features non-slip saddle reinforcement to protect the critical wear area and a synthetic suede base layer that is oil- and water-resistant. The top of the glove helps wick away heat and moisture, and the terry cloth thumb is ideal for wiping away sweat. Supportive cuff with adjustable Velcro® closure. Double-stitched bonded nylon thread for long life.

Glove	Color	Medium	Large	X-Large	Weight	$
FR Leather Gloves Lined with Kevlar	—	91432	91433	91434	8 oz.	$71.50
FR Mechanics Hybrid Gloves	—	91271	91272	91273	5 oz.	$49.95
Mesh Utility Plus	—	91385	91386	91387	4 oz.	$22.75
Waterproof Winter	Safety Lime	91403	91404	91405	6 oz.	$36.50
Waterproof Winter Plus	—	91428	91429	91430	6 oz.	$36.50
Pro XT	—	91388	91389	91390	5 oz.	$26.50
Safety Utility	Lime	91214	91215	91216	5 oz.	$22.75
Ropework XT	—	91211	91212	91213	5 oz.	$32.50
General Utility Plus	—	91208	91209	91210	5 oz.	$22.75

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New! Womanswork® Original Pigskin Work Gloves
4930

Designed to stand up to hard work, this heavy-duty glove provides a combination of dependable protection and excellent dexterity. The buttery soft 100% pigskin leather is brushed to a suede finish. Hand washable.

New! Womanswork® Lined Pigskin Work Gloves
4927

Lined with soft, double-sided fleece for superior warmth in cold weather, this heavy-duty glove also provides outstanding dexterity and protection while you work. The exterior is made of 100% pigskin leather that is brushed to a suede finish. Hand washable.

New! Womanswork® Pigskin Gauntlet Gloves with Canvas Cuff
4931

Offering extra protection for the arm, this gauntlet-style glove is constructed of soft, thorn-stopping pigskin suede leather and features an elbow-length cuff made of strong, breathable canvas. Hand washable.

New! Womanswork® Nitrile-Dipped Work Gloves
4929

This ultra-light, formfitting glove offers maximum grip and dexterity for detailed work. Made of breathable nylon and dipped in a nitrile coating that prevents water from entering the palm and fingers. Machine washable.

New! Womanswork® Multi-Task Stretch Gloves
4932

Versatile and comfortable, this glove features reinforced fingertips, a terry brow wipe on the thumb, and a padded palm made of synthetic leather. The vibrantly colored Spandex top provides extra visibility if the glove is lost in the field, and a Velcro® closure on the cuff keeps debris out of the glove. Machine washable.

New! Womanswork® NFPA Approved Wildland Firefighter Gloves
4928

The cuff extends beyond the wrist crease for extra flame and heat protection. Sewn with Kevlar for outstanding seam strength. Certified to NFPA 1977 Standard on Protective Work Clothing and Equipment for Wildland Firefighting, 2011 Edition. Made in USA.

Womanswork Gloves

	Color	Small	Medium	Large	Weight	Pair
Original Pigskin Work Gloves	—	91606	91607	91608	4 oz.	$29.95
Lined Pigskin Work Gloves	—	91600	91601	91602	6 oz.	$45.95
Pigskin Gauntlet Gloves with Canvas Cuff	—	91609	91610	91611	7 oz.	$39.95
Nitrile-Dipped Work Gloves	—	91612	91613	91614	2 oz.	$5.95
Multi-Task Stretch Gloves	Purple	91615	91616	91617	2 oz.	$15.95
	Teal	91618	91619	91620	2 oz.	$15.95
NFPA Approved Wildland Firefighter Gloves	—	91603	91604	91605	6 oz.	$43.95

Grabber® Warmers
3626

Safe, dry, odorless, & non-toxic. These natural ingredient warmers are powered by exposure to air. A mixture of iron powder, water, salt, activated carbon, and cellulose reacts in oxidation to produce warmth.

Hand Warmer
Provides up to 7 hours of warmth.

Hand Warmers, pair	2 oz.	26949	$0.95
Hand Warmers Big Pack, 10 pairs	1 lb.	26959	$8.95
		5+	$6.95

Toe Warmer
Provides up to 6 hours of warmth.

Toe Warmers, pair	2 oz.	26950	$1.60
Toe Warmers Big Pack, 8 pairs	9 oz.	26960	$10.50
		5+	$9.25

12-Hour Mega Warmer
This larger pocket-sized "maximum heat" warmer provides 12+ hours of warmth.

12-Hour Mega Warmer, single	2 oz.	26961	$1.05
		30+	$0.85
		50+	$0.75

Peel N' Stick Body Warmer
This warmer adheres to clothing and provides 12+ hours of soothing warmth. Simply stick the warmer to an inner layer of clothing.

Peel N' Stick Body Warmer, single	2 oz.	26962	$1.40
		30+	$1.10
		50+	$0.95

24-Hour Ultra Warmer
Designed for maximum duration, this warmer provides 24 hours of ultimate warmth!

24-Hour Ultra Warmer, single	2 oz.	26963	$1.05
		30+	$0.95
		50+	$0.85

Under Armour® UA Evo ColdGear® Hood page 12

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Texsport

Deluxe Nylon Poncho
3523

Nylon inside, rubberized outside. Seams are electronically welded. Snap closures on sides form sleeves. Grommets on corners for tie-down. Drawstring hood with visor.

50″ x 80″, Forest Green		
2 lbs.	**94008**	**$22.95**
	12+	**$20.50**

Vinyl Poncho
3524

Vinyl poncho with hood has snap closures on sleeves. 50″ x 80″. Olive Drab.

Vinyl Poncho		
9 oz.	**94009**	**$5.50**

Pelican® 2690 LED HeadsUP Lite
page 698

ONGUARD INDUSTRIES

Onguard Three-Piece Rainsuit
8637

With Bib Overalls

This rainsuit comes complete with a jacket, detachable hood, and bib overalls. Constructed of high quality PVC on polyester, the rainsuit features ankle and cuff take-up snaps for a snug fit, heavy duty adjustable suspenders, and adjustable waist snaps. The jacket features a storm flap front, two front snap pockets, and underarm vents to keep you cool. 35 mil thick. Yellow.

Small - Waist: 34″-36″		
3 lbs.	**94466**	**$14.50**
	6+	**$13.75**
	12+	**$12.75**
Medium - Waist: 38″-40″		
3 lbs.	**94472**	**$14.50**
	6+	**$13.75**
	12+	**$12.75**
Large - Waist: 42″-44″		
3 lbs.	**94473**	**$14.50**
	6+	**$13.75**
	12+	**$12.75**
X-Large - Waist: 46″-48″		
4 lbs.	**94474**	**$14.50**
	6+	**$13.75**
	12+	**$12.75**
XX-Large - Waist: 50″-52″		
4 lbs.	**94489**	**$14.50**
	6+	**$13.75**
	12+	**$12.75**

ONGUARD INDUSTRIES

Onguard Three-Piece Rainsuit
2185

With Elastic Waist Pants

Constructed of PVC on polyester. Features of the pants include reinforced crotch, elastic waist band, and ankle and cuff take ups. The jacket has a detachable hood, large storm flap, armpit vents with PVC eyelets, cape back with nylon vent, and two front snap pockets. 35 mil thick. Yellow.

Small - Chest: 34″-36″		
2 lbs.	**94310**	**$14.50**
	6+	**$13.75**
	12+	**$12.75**
Medium - Chest: 38″-40″		
3 lbs.	**94311**	**$14.50**
	6+	**$13.75**
	12+	**$12.75**
Large - Chest: 42″-44″		
3 lbs.	**94312**	**$14.50**
	6+	**$13.75**
	12+	**$12.75**
X-Large - Chest: 46″-48″		
3 lbs.	**94313**	**$14.50**
	6+	**$13.75**
	12+	**$12.75**

HH HELLY HANSEN workwear

Helly Hansen Woodland Coat
8719

Features generously cut raglan sleeves, vented back cape, two-way front zipper with storm flap and metal snap closure, an attached drawcord hood with reinforced visor, internal elastic cuffs, 2 front flap pockets, and MicroWeld™ seam construction. Approximately 48″ long. Available in yellow or green.

Medium, Chest: 39″- 41.5″ Yellow		
3 lbs.	**25203**	**$59.95**
	3+	**$57.75**
Large, Chest: 41.5″- 43.5″ Yellow		
3 lbs.	**25204**	**$59.95**
	3+	**$57.75**
X-Large, Chest: 43.5″- 46″ Yellow		
3 lbs.	**25205**	**$59.95**
	3+	**$57.75**
Medium, Chest: 39″- 41.5″ Green		
3 lbs.	**25208**	**$59.95**
	3+	**$57.75**
Large, Chest: 41.5″- 43.5″ Green		
3 lbs.	**25209**	**$59.95**
	3+	**$57.75**
X-Large, Chest: 43.5″- 46″ Green		
4 lbs.	**25210**	**$59.95**
	3+	**$57.75**

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Kool Dri™ Rainsuit

Made in USA

3533

Resists tearing and snagging.

Kool Dri™ nylon/polymer fabric has microscopic pores to let perspiration vapor out without letting rain in. Jacket: Includes hood with drawstring closure, two roomy side pockets with flap, elastic wrist cuffs, and storm flap closure consisting of outer flap with plastic snaps, rustproof zipper, and inner storm flap. Bib pants: Feature deep, reinforced hip pocket and fly flap with velcro closure. Taped sealed seams. Machine wash; hang dry; no iron. Rainsuit includes hooded jacket and bib pants. Olive drab. Made in U.S.A.

Small - Chest 34″-36″; Waist: 32″-34″	2 lbs.	**94285**	**$132.75**
		3+	**$126.00**
Medium - Chest 38″-40″; Waist: 34″-36″	2 lbs.	**94286**	**$132.75**
		3+	**$126.00**
Large - Chest 42″-44″; Waist: 36″-38″	2 lbs.	**94287**	**$132.75**
		3+	**$126.00**
X-Large - Chest 46″-48″; Waist: 38″-40″	2 lbs.	**94288**	**$132.75**
		3+	**$126.00**

DESKTOP. TABLET. MOBILE.
THE NEW FORESTRY-SUPPLIERS.COM

LaCrosse® Boots
pages 638 and 639

Air-Weave Industrial Rain Suits

Made in USA

6380

A built-in cooling system allows perspiration to evaporate right through clothing!

Fabric is 200 denier nylon, oxford weave coated with polyurethane on interior side. No metal parts to conduct electricity. All seams are sealed to prevent leakage. Mildew-resistant fabric resists tearing, snagging, and abrasions, plus it won't run if punctured. Requires only ordinary washing and drip drying. Waterproof coating won't wash off. Meets Anti-Static Properties Test, American Association of Textile Chemists and Colorists (AATCC 76-1975). Exceeds military specifications for waterproof fabrics. Made in the USA.

Jacket

30″L for wear with pants. Nylon snap closure with storm flap prevents leaking. Features snaps for attaching the optional hood to the collar.

		Olive	Yellow	
Chest: 36″-38″	10 oz.	**94339**	**94189**	**$42.75**
Chest: 40″-42″	10 oz.	**94340**	**94190**	**$42.75**
Chest: 44″-46″	11 oz.	**94341**	**94191**	**$42.75**
Chest: 48″-50″	11 oz.	**94342**	**94192**	**$42.75**

Bib Pants

Fly-front "hook and loop" closure and tri-cushion suspension that can't bind or slip off your shoulders.

		Olive	Yellow	
Waist: 30″-32″	9 oz.	**94343**	**94193**	**$40.75**
Waist: 34″-36″	11 oz.	**94344**	**94194**	**$40.75**
Waist: 38″-40″	11 oz.	**94345**	**94195**	**$40.75**
Waist: 42″-44″	11 oz.	**94346**	**94196**	**$40.75**

Optional Hood

Optional Hood, Olive	2 oz.	**94347**	**$11.25**
Optional Hood, Yellow	2 oz.	**94207**	**$11.25**

Columbia Sportswear Company

Columbia Watertight™ II Rain Jacket

7864

Top-notch rain protection for wear in the worst conditions. Microporous Omni-Tech® fabric breathes to let body heat escape while sealed seams ensure that the elements stay where they belong. Other features include curved seams for a streamlined fit, an adjustable storm hood, and a drawcord at the hem. Packable into hand pocket.

Fabric: Shell, 100% nylon Watertight MP; Lining, 100% polyester mesh, 100% nylon taffeta. **Center back length:** 30″. **Color:** Black.

Small	2 lbs.	**21385**	**$65.00**
Medium	2 lbs.	**21386**	**$65.00**
Large	2 lbs.	**21387**	**$65.00**
X-Large	2 lbs.	**21388**	**$65.00**
XX-Large	2 lbs.	**21389**	**$65.00**

Columbia® Rebel Roamer Rain Pants

7863

This light and fast Omni-Tech® pant features a highly breathable microporous membrane for complete waterproof breathability. Plus, all seams are reinforced with wet-stopping tape. An elastic waist pulls on easily over boots and pants. Made of 100% nylon, waterproof/breathable fabric. **Inseam length:** 32″.

Small, 29″ - 32″ Waist	2 lbs.	**21380**	**$50.00**
Medium, 32″ - 35″ Waist	2 lbs.	**21381**	**$50.00**
Large, 36″ - 39″ Waist	2 lbs.	**21382**	**$50.00**
X-Large, 40″ - 43″ Waist	12 oz.	**21383**	**$50.00**
XX-Large, 44″ - 47″ Waist	2 lbs.	**21384**	**$50.00**

[search engine powered by magazooms.com]

New! Helly Hansen Women's Voss Jacket and Pant

4760

Helly Hansen Women's Voss Jacket

Windproof and waterproof, this classically designed jacket features PU-coated polyester construction with Helox+ technology for full weather protection. The comfortable, lightweight jacket also features MicroWeld™ seam construction, two hand pockets, a hood that stows in the collar, adjustable snap cuffs, and a YKK front zipper with an internal storm flap. **Color:** Black.

Medium, Chest: 35″- 37.5″	1 lb.	**21065**	**$45.95**
		3+	**$42.50**
Large, Chest: 37.5″- 40″	1 lb.	**21066**	**$45.95**
		3+	**$42.50**
X-Large, Chest: 40″- 42″	1 lb.	**21067**	**$45.95**
		3+	**$42.50**

Helly Hansen Women's Voss Pant

Constructed of PU-coated polyester, these trousers feature Helox+ technology for full windproof, waterproof protection. Designed for comfort and durability, the trousers also feature MicroWeld™ seam construction, an elastic waistband with a drawcord, and an adjustable snap-bottom hem. **Color:** Black.

Medium, Waist: 30″- 32″, Length: 34″	10 oz.	**21062**	**$29.25**
		3+	**$26.95**
Large, Waist: 32″- 34″, Length: 34″	11 oz.	**21063**	**$29.25**
		3+	**$26.95**
X-Large, Waist: 34″- 36″, Length: 34″	12 oz.	**21064**	**$29.25**
		3+	**$26.95**

Helly Hansen Voss Jacket and Pant

4760

Helly Hansen Voss Jacket

This no-nonsense, 100% waterproof, lightweight rain jacket features PU surface fabric to protect against the heaviest of rains. Plus, it also has Helox+ full protection, a button-closure stormflap, a full-center front zip closure, and welded seams to ensure it stays waterproof. Other features include a packable hood with drawcord adjustment at front, two hand pockets at front with flaps, adjustable snap wrist cuffs, drawcord adjustment at hem, extended back, and brushed inside for comfort. **Color:** Black.

Medium, Chest: 39″- 41.5″	1 lb.	**21053**	**$45.95**
		3+	**$42.50**
Large, Chest: 41.5″- 43.5″	1 lb.	**21054**	**$45.95**
		3+	**$42.50**
X-Large, Chest: 43.5″- 46″	1 lb.	**21055**	**$45.95**
		3+	**$42.50**

Helly Hansen Voss Pant

These 100% waterproof trousers are made with a PU surface fabric to protect you against the heaviest of rains. Other features include Helox+ full protection, welded seams, brushed inside for comfort, adjustable snap bottom hem, and an elastic adjustable waist. **Color:** Black.

Medium, Waist: 33″- 36″, Length: 34″	1 lb.	**21056**	**$29.25**
		3+	**$27.25**
Large, Waist: 36″- 38″, Length: 34″	13 oz.	**21057**	**$29.25**
		3+	**$27.25**
X-Large, Waist: 38″- 40″, Length: 36″	14 oz.	**21058**	**$29.25**
		3+	**$27.25**

Helly Hansen Mandal Jacket, Bib Overall & Pants

8719

Designed for extreme weather protection! Constructed of PVC-coated woven polyester (400g mid weight) and is chemical- and mildew-resistant.

Helly Hansen Mandal Jacket

Features a drawcord hood, 2 hand pockets, and a storm flap with snap closure.

		Yellow	Green	
Medium, Chest: 39″- 41.5″	2 lbs.	**25190**	**25194**	**$37.75**
		3+	3+	**$35.50**
Large, Chest: 41.5″- 43.5″	3 lbs.	**25191**	**25195**	**$37.75**
		3+	3+	**$35.50**
X-Large, Chest: 43.5″- 46″	3 lbs.	**25192**	**25196**	**$37.75**
		3+	3+	**$35.50**

Helly Hansen Mandal Bib Overall

Features click-type connectors on the suspenders.

		Yellow	Green	
Medium, Waist: 33.5″- 36″	2 lbs.	**25197**	**25200**	**$37.75**
		3+	3+	**$35.50**
Large, Waist: 36″- 38.5	2 lbs.	**25198**	**25201**	**$37.75**
		3+	3+	**$35.50**
X-Large, Waist: 38.5″- 40″	3 lbs.	**25199**	**25202**	**$37.75**
		3+	3+	**$35.50**

Helly Hansen Mandal Pants

Features plastic snaps at the bottom hem. Elastic waist with a drawcord.

		Yellow	Green	
Medium, Waist: 33.5″- 36″ Yellow	2 lbs.	**20215**	**20212**	**$30.25**
		3+	3+	**$28.25**
Large, Waist: 36″- 38.5″ Yellow	2 lbs.	**20216**	**20213**	**$30.25**
		3+	3+	**$28.25**
X-Large, Waist: 38.5″- 40″ Yellow	2 lbs.	**20217**	**20214**	**$30.25**
		3+	3+	**$28.25**

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Helly Hansen Highliner Jacket and Bib Overall

8718

Woven, heavy-duty PVC-coated fabrics are recommended for tough wear and tear, plus they are resistant to oil, petroleum, concrete and chemicals. Jacket features a drawcord hood and double storm flap with snap closure. Available in Yellow or Green. Bib Overalls have click-type connectors on the suspenders. Available in Yellow or Green.

Helly Hansen Highliner Jacket

		Yellow	Green	
Medium, Chest 39″- 41.5″	2 lbs.	25178	25179	$85.95
			3+	$79.95
Large, Chest: 41.5″- 43.5″	3 lbs.	25180	25181	$85.95
			3+	$79.95
X-Large, Chest: 43.5″- 46″	3 lbs.	25182	25183	$85.95
			3+	$79.95

Helly Hansen Highliner Bib Overall

		Yellow	Green	
Medium, Waist: 33.5″- 36″	2 lbs.	25184	25187	$85.95
			3+	$79.95
Large, Waist: 36″- 38.5″	3 lbs.	25185	25193	$85.95
			3+	$79.95
X-Large, Waist: 38.5″- 40″	3 lbs.	25186	25189	$85.95
			3+	$79.95

Scrusher® Boot Cleaners page 639

Peet® Boot & Wader Dryer page 636

Helly Hansen Impertech Rainwear

7653

All-day rainwear built tough to resist snags and punctures in the field. Stretch fabric prevents the feeling of being restricted. Polyester knit material has an elastic polyurethane coating for dispersing perspiration without the need for a lining making it lightweight.

Impertech Deluxe Jacket

Full-length and generous cut with MicroWeld™ seam construction, double entry front pockets, front zip with snap storm flap, back cape for ventilation, attached hood tucks into collar, hook and loop adjustable sleeve cuff, and two waterproof pockets and hand warmer pockets. Blood Borne Pathogen Tested. **Fabric:** 0.24 mm circular knit polyester backing with stretch polyurethane coating.

M 39″-41.5″	L 41.5″-43.5″	XL 43.5″-46″	New! XXL 46″-48.5″	New! XXXL 50″-52.5″	New! XXXXL 53″-54.5″	Weight	Each	3+
24982	24983	24984	25603			2 lbs.	$74.95	$69.95
				25604	25605	2 lbs.	$84.95	$79.95

Impertech Deluxe Bib Pant

Bib pants have a high front/lower back to keep you protected, yet cool in warmer weather. Other features include an internal pocket with Velcro® closure inside front of bib, heavy-duty elastic with click type connectors, snap take up adjustment at waist, knee-length boot zippers, and double layer Impertech, edge stitched and welded on seat and knees. Blood Borne Pathogen Tested. **Fabric:** .24 mm circular knit polyester backing with stretch polyurethane coating.

M 33.5″- 36″	L 36″- 38.5″	XL 38.5″- 40″	New! XXL 40″- 42.5″	New! XXXL 42.5″- 45″	New! XXXXL 48″- 50″	Weight	Each	3+
25007	25008	25009	25600			2 lbs.	$74.95	$69.95
				25601	25602	2 lbs.	$84.95	$79.95

New! Impertech Sanitation Jacket

Generously cut jacket features raglan sleeves and durable MicroWeld™ seam construction. Also features front zip with snap storm flap, back cape for ventilation, elastic wrists for a snug fit, and an attached hood with elastic. Blood Borne Pathogen Tested. **Fabric:** .16 mm circular knit polyester backing with stretch polyurethane coating.

M 39″- 41.5″	L 41.5″- 43.5″	XL 43.5″- 46″	XXL 46″- 48.5″	XXXL 50″- 52.5″	XXXXL 53″- 54.5″	Weight	Each	3+
25613	25614	25615	25616			1 lb.	$63.95	$58.75
				25617	25618	2 lbs.	$72.75	$66.50

New! Impertech Sanitation Bib Pant

Functional bib pant features a high waist, adjustable elastic suspenders, elastic at the ankles, and snap adjustments at the hem and waist. Also features a chest pocket with a hook-and-loop closure on the right side and rugged MicroWeld™ seam construction. Blood Borne Pathogen Tested. **Fabric:** .16 mm circular knit polyester backing with stretch polyurethane coating.

M 33.5″- 36″	L 36″- 38.5″	XL 38.5″- 40″	XXL 40″- 42.5″	XXXL 42.5″- 45″	XXXXL 48″- 50″	Weight	Each	3+
25606	25607	25608	25609			2 lbs.	$63.95	$58.75
				25611	25612	2 lbs.	$72.75	$66.50

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OccuNomix Premium Breathable Rain Jacket

4740

ANSI Class 3

Breathable, waterproof and windproof! This 34″L jacket provides maximum protection against the harsh elements while making you highly visible thanks to 3M™ Scotchlite™ Reflective Material - two 360° horizontal stripes on the body and four 360° horizontal sleeve stripes. Other features include lightweight 17 mil breathable fabric (100% ANSI polyester with PU coating), a zip rollaway hood, and two pockets. **Color:** Hi-Vis Yellow.

Rain Jacket, Size Large	2 lbs.	**94157**	**$48.95**
		5+	**$45.75**
Rain Jacket, Size X-Large	1 lb.	**94158**	**$48.95**
		5+	**$45.75**
Rain Jacket, Size XX-Large	2 lbs.	**94159**	**$48.95**
		5+	**$45.75**

OccuNomix Premium Breathable Bib Pants

4740

ANSI Class E

These highly visible, waterproof bib pants are breathable and comfortable to wear. One horizontal torso stripe and four horizontal stripes are made of 3M™ Scotchlite™ Reflective material for added visibility at night. Other features include sealed seams, elastic suspenders with release buckle and adjustable leg cuffs with snaps, nylon heavy-duty reinforced knees with foam knee pad insert, 2 slant pass-thru pockets, and a chest pocket with snaps and pen compartment. Made of 100% ANSI Polyester with PU Coating. **Color:** High Vis Yellow.

Bib Pants, Medium	2 lbs.	**94239**	**$44.50**
		5+	**$41.25**
Bib Pants, Large	2 lbs.	**94240**	**$44.50**
		5+	**$41.25**
Bib Pants, X-Large	2 lbs.	**94241**	**$44.50**
		5+	**$41.25**

Nite Lite Pro Non-Insulated Jacket & Bib Overalls

7187

Breathable and 100% waterproof!

Virtually impenetrable to briars, this durable work wear is seam sealed and 100% waterproof, making it the choice of outdoor professionals! Cut from 1000 Denier Nylon and features heavy-duty YKK zippers.

Non-Insulated Jacket

Features include two hand warmer and chest pockets with zipper closures and storm flaps; adjustable draw cord waist; storeable attached hood; comfortable, internal storm cuffs; mesh lining, a slight tail drop for extra coverage; and a full front zipper with double storm flaps.

Medium	2 lbs.	**20250**	**$89.99**
Large	2 lbs.	**20251**	**$89.99**
X-Large	2 lbs.	**20252**	**$89.99**
XX-Large	2 lbs.	**20253**	**$89.99**

Non-Insulated Bib Overalls

Features double-layered front legs for extra protection, oversized chest pocket with two accessory pockets, two rear pockets, heavy-duty suspenders and hardware, and zip to waist legs for easy on/off. 32″ Inseam.

Medium - 34″-36″ Waist	2 lbs.	**20254**	**$80.99**
Large - 38″-40″ Waist	2 lbs.	**20255**	**$80.99**
X-Large - 42″-44″ Waist	2 lbs.	**20256**	**$80.99**
XX-Large - 46″-48″ Waist	2 lbs.	**20257**	**$80.99**

Nite Lite Insulated Coat and Bib Overalls

7334

100% Waterproof and constructed of heavy-duty brush tough nylon.

3-Season Deluxe Coat

Features a removable fleece liner that provides unmatched warmth in the winter and can also be worn by itself. When the liner is removed, the shell has comfort mesh ideal for early fall and late spring weather. Includes a removable game bag, an LED accessory light, a detachable hood, multiple handy pockets, and shoulder snaps.

Medium	4 lbs.	**20300**	**$143.99**
Large	4 lbs.	**20301**	**$143.99**
X-Large	5 lbs.	**20302**	**$143.99**
XX-Large	5 lbs.	**20303**	**$143.99**

Extreme Insulated Bib Overalls

Features include nylon quilted lining, two-way front zipper with storm flap, full-length leg zipper with storm flap, quick release adjustable shoulder straps, five front pockets, one back pocket, and side ribbed comfort bands.

Medium	3 lbs.	**20308**	**$89.99**
Large	3 lbs.	**20309**	**$89.99**
X-Large	3 lbs.	**20310**	**$89.99**
XX-Large	3 lbs.	**20311**	**$89.99**

ThermaCELL® Heated Insoles
page 636

Eureka! Taron Tents
page 670

[search engine powered by magazooms.com]

Special Ops Tactical Soft Shell Jacket
2943

Durable, lightweight and breathable plus it has a 100% waterproof polyester shell! The 3-layer construction deflects wind, wicks away moisture and retains body heat! Features include a fleece lining, a fleece-lined stand-up collar with a zipper pouch for stow-away hood, zippered shoulder pocket on each arm, zippered forearm pocket on left arm, two front slash zippered chest pockets, two interior zippered pockets, two zippered back pockets with mesh interior, vent zipper under each arm, 4″x 4″ loop side of hook & loop on each shoulder for patch attachment, drawstring waist and hood, and elastic hook and loop adjustable wrist cuffs.

Medium (37-41) Coyote Brown	3 lbs.	**20020**	**$83.99**
Large (41-45) Coyote Brown	3 lbs.	**20021**	**$83.99**
XL (45-49) Coyote Brown	3 lbs.	**20022**	**$83.99**
XXL (49-53) Coyote Brown	3 lbs.	**20023**	**$92.99**

Helly Hansen West Coast Jacket
2806

This waterproof jacket is constructed of PU-coated knitted polyester and features a fleece inside collar for extra warmth. The hood has drawcord and Velcro® adjustments, and an opening in the back of the jacket allows for ventilation. Features two hand pockets with flap closures, one chest pocket with zip closure, and one sleeve pocket with zip closure. Also features a storm flap with zip closure and a Velcro® adjustment on the bottom hem of each sleeve.

Medium	1 lb.	**20312**	**$89.95**
Large	2 lbs.	**20313**	**$89.95**
X-Large	2 lbs.	**20314**	**$89.95**

New! OccuNomix Bomber Jacket
4801

ANSI Class 3

This ANSI Class 3 Bomber Jacket is easily seen thanks to the hi-vis yellow polyester material with 2″ Silver reflective tape. A 100% Black Polyester Fleece zip-out liner can be removed or worn as a separate jacket. Other features include sealed seams making it waterproof, a roll-away hood, 2 outer pockets, 1 inner pocket, a left sleeve pencil pocket with 2 compartments, and 2 Mic tabs. The bottom front, collar, cuffs and waistband are black.

Medium	4 lbs.	**24910**	**$49.95**
Large	4 lbs.	**24911**	**$49.95**
X-Large	4 lbs.	**24912**	**$49.95**
XX-Large	4 lbs.	**24913**	**$49.95**

Arborwear

Arborwear® Stretch Cambium Jacket
2814

Combining a 10 oz. cotton canvas exterior with 3% Spandex, this rugged jacket stretches throughout and offers outstanding mobility and breathability. Features a polyester fleece interior, four zippered pockets, and a durable water-repellent coating. Garment washed.

Black, Small	4 lbs.	**20240**	**$114.95**
Black, Medium	4 lbs.	**20241**	**$114.95**
Black, Large	4 lbs.	**20242**	**$114.95**
Black, X-Large	4 lbs.	**20243**	**$114.95**
Black, XX-Large	4 lbs.	**20244**	**$114.95**
Chestnut, Small	4 lbs.	**20245**	**$114.95**
Chestnut, Medium	4 lbs.	**20246**	**$114.95**
Chestnut, Large	4 lbs.	**20247**	**$114.95**
Chestnut, X-Large	4 lbs.	**20248**	**$114.95**
Chestnut, XX-Large	4 lbs.	**20249**	**$114.95**

Arborwear® Tech T-Shirt
page 14

New! Rust-Oleum® NeverWet™ Liquid Repelling Treatment
4958

This innovative treatment creates a barrier that repels water, mud, ice, and liquids on a variety of surfaces. The two-step system consists of a base coat and a top coat, and the formulation dries to a flat, frosted finish. Suitable for use on metal, wood, aluminum, galvanized metal, PVC, concrete, masonry, asphalt, vinyl siding, fiberglass, canvas, and most plastics. For best results, NeverWet's top coat should be reapplied when water no longer rolls off of the surface. Kit contains two 14 oz. aerosol cans.

Rust-Oleum NeverWet Liquid Repelling Treatment	A	2 lbs.	**35430**	**$21.75**

Note: Not intended for use on electronic devices or clothing.
A Extra Charge if Shipped by Air.

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Orion® Safety Signal Horn

Made in USA

8329

Meets US Coast Guard requirements for boats over 65′. Non-flammable, environmentally safe propellant. 100% ozone safe. Made in USA.

8 oz. Safety Signal Horn 15 oz.	A	24245	$28.25
		6+	$25.50
Refill for 8 oz. Safety Signal Horn 12 oz.	A	24246	$24.95
		12+	$21.25

Emergency Strobe Light

3630

Easily attaches to life vests and life jackets.

Automatically flashes 50-70 times per minute for up to 16 hours. Visible up to three miles; waterproof to 3 feet deep. Features an integral pin for easy attachment to life vests and life jackets; a high-impact, corrosion-resistant plastic body; metal reflectors; unbreakable thick lenses; easy bottom loading; spare bulb holders; low drain high performance bulbs; and manually operated flasher with switch guard. Orange with clear lens. Uses one D cell battery (not included). 4″ x 2-1/2″.

Clear Lens Strobe Light 4 oz.	25084	$32.95
	6+	$30.50
D cell Alkaline Battery Single 6 oz.	02180	$2.45

STEARNS®

Stearns® Comfort Series™ SAR Flotation Vest

8325

Made of soft, lightweight mesh for comfort and ventilation. Soft Aquafoam™ combined with durable Crosstech® foam adds extra comfort. Two 1-1/2″ encircling belts, adjustable chest strap and zipper front for optimal fit and security. Two pockets with hook and loop closure. Rolled, stand-up collar; 62 sq. in. (400 sq. cm.) SOLAS-grade reflective tape. USCG approved Type III.

Medium	2 lbs.	25087	$92.95
		3+	$84.25
Large	2 lbs.	25088	$92.95
		3+	$84.25
X-Large	2 lbs.	25089	$92.95
		3+	$84.25
XX-Large	2 lbs.	25090	$92.95
		3+	$84.25

STEARNS®

Stearns® Industrial Work Vest

3537

USCG Approved Type III

Features Ensolite® flotation, a high buoyancy, closed-cell foam that is very soft and flexible – yet will not puncture, tear, waterlog, rot, or mildew. Type III, U.S. Coast Guard approved. Exterior is made of heavy-duty Nylgarde™ nylon which is resistant to tearing and abrasions. Also features marine mesh lining to promote air circulation, rustproof hardware, and Scotchlite® retro-reflective panels for night operation. Industrial safety orange for maximum visibility. Universal size.

Fits chest size 30″ to 52″ 2 lbs.	24980	$63.95
	4+	$57.95

STEARNS®

Stearns® Utility Flotation Vest

6930

USCG Approved Type III

Soft, lightweight mesh on the upper half of the vest for comfort and ventilation. Features two 1″ encircling body straps with zipper front for a secure fit, two pockets with hook and loop closure, light and durable Crosstech™ flotation foam, D-rings for attaching gear, and SOLAS-grade reflective tape. Outershell is made of a tough, nylon oxford material. International Orange.

Medium	1 lb.	24861	$50.25
		4+	$45.95
Large	1 lb.	24862	$50.25
		4+	$45.95
X-Large	1 lb.	24863	$50.25
		4+	$45.95
XX-Large	1 lb.	24864	$50.25
		4+	$45.95

STEARNS®

Stearns® "The Force" Flotation Work Vest

3540

USCG Approved Type V

This rugged work vest features heavy-duty construction consisting of a strong, durable PVC coating and Aquafoam™ flotation foam which retains buoyancy even when punctured. Encircling belts with quick-snap buckles. SOLAS-grade reflective panels. Easy to clean. U.S. Coast Guard Approved Type V work vest. **Color:** International Orange. **Size:** Adult Universal.

Fits chest size 30″ to 52″ 2 lbs.		25018	$42.50
		4+	$40.25

STEARNS®

Stearns® Universal General Purpose Vest

8618

General purpose flotation vest features two encircling body belts and one chest strap. 200 Denier nylon oxford outershell houses durable Crosstech® flotation foam. 3M™ Scotchlite™ reflective material SOLAS-grade 6755 on panels. USCG Approved Type III. **Color:** International Orange. **Size:** Adult Universal.

Adult General Purpose Vest 1 lb.		24981	$35.50
		6+	$32.95

STEARNS®

Stearns® Utility Flotation Cushion

7283

Type IV Throwable Device. Cushion measures 16″ x 14-3/8″ and is made of durable Crosstech® flotation foam. Straps aid in rescue.

Orange - with a 200 Denier nylon oxford shell 2 lbs.	24973	$12.75

First Aid Kits pages 652 thru 659

A Extra Charge if Shipped by Air. See Shipping Information for details.

[search engine powered by magazooms.com]

STEARNS®

Stearns® Ultra™ Inflatable Life Vest

8550

Halkey-Roberts 6F manual inflator. Quick, reliable manual CO2 inflation by pulling lanyard or by oral tube. Minimum 22.5 lb. (100 Newton) buoyancy when fully inflated. Durable 210 Denier nylon outer shell and an adjustable belt. USCG Approved Type V for use as a Type III and is required to be worn. **Size:** Adult Universal.

Stearns Ultra Inflatable Life Vest 2 lbs.	A	24995	$98.25
		2+	$95.50
Re-Arming Kit 6 oz.	A	24997	$19.50

Rescue Knives pages 262 & 701

STEARNS®

Stearns® Ultra 4000 Inflatable PFD

8031

Automatically inflates when submerged in water, or can be manually inflated by pulling the lanyard or by the oral tube.

Features high visibility reflective tape and an emergency whistle on the bladder, Halkey Roberts 1F inflator with single point indicator, and a clear window to view arming status of mechanism. Provides 33.7 lbs. (150 Newton) buoyancy when fully inflated. Mesh storage bag, cylinder, and bobbin included. Heavy duty nylon shell. USCG approved Type V and approved substitute for a Type II or III when worn and used in accordance with the owner's manual. **Universal Size:** 30˝- 52˝.

Stearns Ultra 4000 Inflatable PFD 2 lbs.	A	24986	$162.25
		2+	$158.25
Re-Arming Kit, Contains one cartridge 7 oz.	A	24930	$30.25

Mustang Survival Inflatable PFD with HIT™

7818

Hydrostatic Inflator Technology (HIT) ensures automatic inflation when submerged in 4˝ or more of water. Features a status indicator window, strobe light holder, safety whistle, and backup oral inflation tube. Neoprene Comfort Collar™ and durable 420-Denier nylon and heavy duty polyurethane-coated nylon shell. Maintenance-free for 5 years or until inflated. Provides 35 lbs. of buoyancy when inflated. USCG - UL1180 - Inflatable PFDs 160.076 - Type V (Commercial Use); Type II (Recreational Use). **Universal Size:** 30˝- 52˝.

Mustang Survival Inflatable PFD with HIT 2 lbs.	A	25096	$296.75
Rearming Kit 2 lbs.	A	25098	$80.25

Mustang Survival Inflatable Work Vest with HIT™

7819

Reduces heat stress. Hydrostatic Inflator Technology (HIT) automatically inflates in 4˝ or more of water. Features a status indicator window, strobe light holder, safety whistle, and retro-reflective SOLAS tape on front and back of outer shell. Includes back-up oral inflation tube and manual activation cord. Coated neoprene neck cushion. Durable PU-coated nylon shell provides puncture and abrasion resistance. Maintenance-free for 5 years or until inflated. 35 lbs. of buoyancy when inflated. 50 MPH strength tested. USCG - UL1180 - Inflatable PFDs 160.076 - Type V (Commercial Use); Type II (Recreational). **Universal Size:** 30˝- 52˝

Mustang Survival Inflatable Work Vest with HIT 3 lbs.	A	25097	$319.50
Rearming Kit 2 lbs.	A	25098	$80.25

25029

STEARNS®

Stearns® Type IV 30˝ Industrial Ring Buoy

3536

Complies with SOLAS 74/83

30˝ Industrial ring buoy is molded from durable polyurethane plastic. Resists common chemicals, marine oils, and UV rays. Features a replaceable encircling rope and SOLAS-grade reflective panels. USCG approved. Complies with SOLAS 74/83. Orange.

Stearns Type IV 30˝ Industrial Ring Buoy	7 lbs.	24993	$88.50
		3+	$84.95

Stearns® Ring Buoy Rope with Bag

Throw line attaches to ring buoy for easy storage and quick deployment. Made from weather-resistant, tough Cordura® fabric. Contains 90 feet of highly visible 3/8˝ polypropylene floating rope.

Stearns Ring Buoy Throw Bag	1 lb.	25029	$42.75

STEARNS®

Stearns® Rescue Mate™ Throw Bag

6929

This 1,000D Cordura bag with 1˝ reflective tape stitched around perimeter features a 3/8˝ diameter braided, floating polypropylene rope. **Tensile Strength:** 1,800 lbs.

Rescue Mate Throw Bag, 70´ 2 lbs.		24994	$48.50
		5+	$45.75
Rescue Mate Throw Bag, 100´ 2 lbs.		25050	$52.25
		5+	$49.50

Mustang Survival Rescue Stick™

7820

This easy-to-use rescue tool provides rapid flotation assistance! To use, simply throw the Rescue Stick near the person in distress. The baton-shaped Rescue Stick inflates to a large horseshoe shape within seconds of making contact with the water. Can be thrown accurately 100´ or further. Provides 35 lbs. of buoyancy. Easy to repack and reuse.

Mustang Survival Rescue Stick 9 oz.	A	25099	$193.25
Rearming Kit 8 oz.	A	25100	$52.95

A Extra Charge if Shipped by Air. See Shipping Information for details.

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Neos 36″ River Trekker™ Overshoe Hip Boots
2970

These overshoe hip boots provide a tough barrier between your everyday footwear and the harsh elements of nature! Featuring heat-sealed seams and RF weld construction, the hip boots are 100% waterproof. An adjustable hook-and-loop belt strap closure ensures a comfortable fit and easy on/off. Rugged, snag-resistant 900 denier nylon upper is attached to a Vibram® Ninja™ deep-treaded outsole. **Color:** Brown.

Medium, Fits Men's 7.5 to 9; Women's 9 to 10.5	4 lbs.	**93453**	**$110.00**
Large, Fits Men's 9.5 to 11; Women's 11 to 12.5	4 lbs.	**93455**	**$110.00**
X-Large, Fits Men's 11.5 to 13	4 lbs.	**93457**	**$110.00**
XX-Large, Fits Men's 13.5 to 15	4 lbs.	**93458**	**$110.00**

Note: It is recommended to go up a size when wearing over boots.

Neos Villager™ 10″ Overshoes
8680

Provides a tough barrier between everyday footwear and the harsh elements of nature. All-season waterproof overshoe with 160 denier pack cloth upper. Durable long-wearing NEOS Superlite outsole. Easy on/off, lightweight and convenient, these durable overshoes are windproof and provide high traction. Waterproof 2.5 mil PU laminated film membrane. Fits orthopedic footwear. **Comfort Zone:** to 0°F. **Note:** It is recommended to go up a size when wearing over boots.

Small, Fits Sizes 5.5-7	2 lbs.	**93407**	**$58.99**
Medium, Fits Sizes 7.5-9	2 lbs.	**93408**	**$58.99**
Large, Fits Sizes 9.5-11	2 lbs.	**93409**	**$58.99**
X-Large, Fits Sizes 11.5-13	2 lbs.	**93410**	**$58.99**
XX-Large, Fits Sizes 13.5-15	2 lbs.	**93411**	**$58.99**

Neos Adventurer™ 15″ Overshoes
7631

Provides a tough barrier between everyday footwear and the harsh elements of nature. Tough 500 denier nylon upper with waterproof membrane. NEOS Perma sole offers high traction in tough winter weather. Easy on/off, lightweight and convenient, these durable overshoes are also windproof. Waterproof 2.5 mil PU laminated film membrane. Fits orthopedic footwear. **Comfort Zone:** to 0°F. **Note:** It is recommended to go up a size when wearing over boots

Small, Fits Sizes 5.5-7	2 lbs.	**93353**	**$81.99**
Medium, Fits Sizes 7.5-9	2 lbs.	**93354**	**$81.99**
Large, Fits Sizes 9.5-11	3 lbs.	**93355**	**$81.99**
X-Large, Fits Sizes 11.5-13	3 lbs.	**93356**	**$81.99**
XX-Large, Fits Sizes 13.5-15	3 lbs.	**93357**	**$81.99**

Due North All-Purpose Traction Aid
7393

All Purpose for all winter conditions, all footwear, all outdoor activity. Features include 6 replaceable Ice Diamond tungsten carbide spikes for maximum grip, spike diamond pattern allows more push off and lateral grip, and bi-directional tread for added traction. Special compound rubber retains elasticity and fit in all temperatures. Quick Fit™ support rings and holes provide easy adjustment and easier on and off. Wide, thick heel strap gives better grip, durability and longer wear.

Small - Women's 5-8, Men's 4-7	10 oz.	**22939**	**$22.95**
Medium - Women's 8-11, Men's 7-10	11 oz.	**22947**	**$22.95**
Large - Women's 11-13, Men's 10-13	12 oz.	**22948**	**$22.95**
Oversized	1 lb.	**22949**	**$28.95**

Stabilicers™
3578

Provide sure footing on ice and snow, comfortable on dry surfaces as well!

These anti-skid, detachable soles have replaceable 1/8″ case-hardened steel cleats that dig in hard on ice and snow to prevent slips and falls. They also secure a safe, comfortable stride on dry surfaces. Velcro® straps for easy on and off. There is no slipping between the Stabilicers™ and the bottom of your shoe because of the carefully designed textured grid top surface. Practical to wear over all kinds of footwear in all kinds of weather. Replaceable cleats available.

Small - Men's Size: 6-1/2 to 8; Women's Size: 8-1/2 to 10	1 lb.	**23020**	**$44.95**
Medium - Men's Size: 8-1/2 to 10; Women's Size: 11 and up	1 lb.	**23021**	**$44.95**
Large - Men's Size: 10-1/2 to 12	2 lbs.	**23022**	**$44.95**
Replaceable Cleats – Pkg. of 50	4 oz.	**23023**	**$5.95**

Yaktrax Pro
2676

Walk, work or run confidently on packed snow and ice!

Gives you instant confidence and safety in snowy or icy conditions. Spikeless and ultra-light, the Yaktrax Pro is made out of a natural rubber blend designed for increased durability with a stainless steel coil for stability. A removable performance strap helps keep the Yaktrax Pro in place during use.

Small (Men 5 - 8-1/2, Women 6-1/2 - 10)	7 oz.	**22950**	**$26.95**
		5+	**$24.95**
Medium (Men 9 -11, Women 10-1/2 - 12-1/2)	7 oz.	**22951**	**$26.95**
		5+	**$24.95**
Large/X-Large (Men 11-1/2+, Women 13+)	9 oz.	**22952**	**$26.95**
		5+	**$24.95**

TURFgrabber™ Traction Gear
page 214

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Outdoor Research Crocodile Snow Gaiters
4508

Manufacturer's Warranty Lifetime

These rugged gaiters combine a fitted design and waterproof fabric to keep the inside of your shoes or boots debris-free while also providing excellent protection from moisture. The leg section is constructed of waterproof/breathable three-layer 70D Taslan Gore-Tex® fabric, and the 1000D Cordura® boot section is lined with coated packcloth. The gaiters stay securely in place with a 3/4˝W webbing and cam buckle top closure, a 2˝W hook/loop front closure, a double-riveted boot lace hook, and a urethane-coated nylon instep strap. A hook/loop shear tab at the bottom of the front closure prevents separation, and double-needle stitching ensures durability. Manufacturer's lifetime warranty.

Medium, Size 6-9	12 oz.	**24426**	**$79.00**
Large, Size 8-11	13 oz.	**24427**	**$79.00**
X-Large, Size 9-12	14 oz.	**24428**	**$79.00**

Emergency Thermal Blanket
6381

Lightweight blanket weighs just 3 ounces! Made in USA

Retains up to 80% of body heat in emergency treatment of shock and severe cold. Opens to 7´ x 4-2/3´, folds to pocket size. Lightweight, just 3 oz. Approved by Boy Scouts of America and a variety of military, rescue and police organizations. Conforms to the Flammable Fabrics Act, but will burn if ignited. Silver on both sides.

Emergency Thermal Blanket 3 oz.	**93331**	**$3.75**
	10+	**$2.95**

All-Weather Blanket
3624

A by-product of super insulation materials developed for NASA!

This blanket features metalized construction that reflects up to 80% of your body heat. Keeps you warm and dry, even in sub-zero temperatures. Completely waterproof. Strong and durable with reinforced binding and rust-proof grommets in the corners. Under normal use, it will not crack, chip, or peel. Washes clean with a damp sponge. Conforms to the Flammable Fabrics Act, but will burn if ignited. Weighs 12 oz. Opens to 7´ x 5´, folds to 7˝ x 10˝.

Red 13 oz.	**93325**	**$13.95**
	10+	**$12.25**

MSR EVO 22 Snowshoes
7606

Made in USA

These unibody snowshoes provide the best traction when heading up or down even modest slopes. The weather-resistant, three-strap PosiLock™ binding delivers control on rolling terrain, while Modular Flotation tails are ideal for trail walking and all-condition day use. Steel traction rails and brake bars are molded directly into snowshoe decks. Made in USA.

Color: Navy. **Weight per pair:** 3 lbs, 10 oz. **Width:** 8.2˝. **Length:** 22.2˝. **Binding Type:** SpeedLock.

EVO 22˝ Snowshoes 4 lbs.	**93247**	**$139.95**
Optional Tail Fin for EVO 22 Snowshoes 15 oz.	**93253**	**$39.95**

Note: Without tails, the recommended load is up to 180 lbs., and with 6˝ tails, the recommended load is up to 250 lbs. Recommended load specification includes weight of hiker with gear.

GV Wood Frame Modified Bear Paw Snowshoes
3587

These handcrafted snowshoes provide excellent flotation and maneuverability in dense brush with weights up to 220 lbs. Frames constructed of Northern White Ash with three coats of marine varnish to ensure a long life. Lacing made of full-grain leather which is less likely to absorb water. Bindings not included. 10˝ x 36˝.

GV Wood Frame Modified Bear Paw Snowshoes 4 lbs.	**93277**	**$144.50**
	2+	**$133.25**
Nylon Bindings for 93277 10 oz.	**93733**	**$25.25**

Manufacturer's Warranty Lifetime

GV Aluminum Frame Snow Aerolite Snowshoes
7715

Durable aluminum frame, abrasion-resistant Entech™ decking, and the exclusive patented Energy Saver™ pivot system. Front and rear aluminum crampons provide maximum grip on hard surfaces and are coated with a special paint to reduce snow and ice buildup. The stabilizer control plate helps to keep your foot from sliding forward when descending, and the heel raiser system provides extra comfort when going uphill. Comfort Fit™ ergonomic binding keeps your foot centered and adjusts to all types of footwear. Ultra-light Revolution buckles resist temperature variations, and the lightweight heel strap won't freeze.

Capacity: up to 190 lbs. Dimensions: 10˝ x 36˝. 6 lbs.	**93280**	**$250.25**
	2+	**$238.25**

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New! LaCrosse® Super Brush Tuff Chest Waders
4937

Armor Weld seams in these chest waders ensure uncompromising waterproof protection! The rugged waders feature a heavyweight 5mm insulated neoprene upper, 1200G Thinsulate™ Ultra Insulation boot, removable EVA footbed, 9mm felt midsole, and PU-reinforced knees and seat. Brush Tuff bi-directional material provides excellent abrasion resistance, and a Trac-Lite outsole offers outstanding traction in snow, mud, and loose terrain. The waders also feature a top-loading pocket, a hand warmer, and buckle straps that offer the capability to create a belt when folded down. Realtree® Max-5 pattern.

Size 7	12 lbs.	**94380**	**$239.95**
Size 8	12 lbs.	**94381**	**$239.95**
Size 9	13 lbs.	**94382**	**$239.95**
Size 10	12 lbs.	**94383**	**$239.95**
Size 11	13 lbs.	**94384**	**$239.95**
Size 12	12 lbs.	**94385**	**$239.95**
Size 13	12 lbs.	**94386**	**$239.95**

LaCrosse® Alpha Swampfox™ Drop Top Chest Waders
4635

These versatile chest waders feature a foldable upper and removable elastic suspenders for easy conversion to pant waders. Other features include adjustable side straps, a removable belt, a waterproof chest pocket, and a nylon shank. Waterproof, breathable, lightweight Talson® nylon upper. Boots are constructed of waterproof, scent-free rubber over 3.5mm of naturally insulating neoprene and are lined with 600 grams of Thinsulate™ Ultra insulation for added warmth. EVA footbed provides cushioned comfort. Swamp-Lite™ outsole ensures superior traction in mud, snow, and loose terrain.

Size 7	8 lbs.	**94770**	**$239.95**
Size 8	8 lbs.	**94771**	**$239.95**
Size 9	8 lbs.	**94772**	**$239.95**
Size 10	9 lbs.	**94773**	**$239.95**
Size 11	9 lbs.	**94774**	**$239.95**
Size 12	9 lbs.	**94775**	**$239.95**
Size 13	9 lbs.	**94776**	**$239.95**

Onguard Steel Toe and Midsole Chest Waders
8636

Superior, waterproof protection! Steel toe style complies with ASTM F2413-05. Resist oil, grease, gasoline, saltwater and ozone. Other features include excellent cold weather flexibility, durable, heavy-duty PVC upper with polyester backing, injected molded seamless boot construction, adjustable polyester nylon strap, top drawstring closure for snug fit, non-corrosive, reinforced suspender buttons, a non-absorbent lining, built-in belt loops with adjustable belt, and replaceable insoles. Can be folded or rolled without cracking. Ultragrip Sipe outsole.

Size 6	9 lbs.	**95206**	**$165.50**
Size 7	9 lbs.	**95207**	**$165.50**
Size 8	10 lbs.	**95208**	**$165.50**
Size 9	11 lbs.	**95209**	**$165.50**
Size 10	11 lbs.	**95203**	**$165.50**
Size 11	11 lbs.	**95216**	**$165.50**
Size 12	12 lbs.	**95217**	**$165.50**
Size 13	12 lbs.	**95204**	**$165.50**

Onguard Chest Waders
2186

Resist oil, grease, gasoline, saltwater and ozone!

Durable, heavy-duty PVC upper with non-absorbent polyester backing. PVC boots have a cleated sole. Other features include top drawstring closure for snug fit, built-in belt loops with adjustable belt, non-corrosive reinforcedd suspender buttons, and H-back suspenders. Can be folded or rolled with no cracking. Excellent cold weather flex.

Size 7	9 lbs.	**95225**	**$132.50**
Size 8	10 lbs.	**95226**	**$132.50**
Size 9	10 lbs.	**95227**	**$132.50**
Size 10	11 lbs.	**95228**	**$132.50**
Size 11	11 lbs.	**95230**	**$132.50**
Size 12	11 lbs.	**95231**	**$132.50**
Size 13	12 lbs.	**95232**	**$132.50**

Peet® Boot & Wader Dryer
page 636

LaCrosse® Rubber Conditioning Spray
7910

Formulated to rejuvenate rubber, this spray stops color-fading and prevents UV damage. Water-based and biodegradable formula is non-glossy and non-slippery.

LaCrosse Rubber Conditioning Spray	11 oz.	**93480**	**$15.00**

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PRO LINE

Pro Line® Rubber Chest Waders

6535

Constructed of vulcanized rubber, these chest waders offer quality at an economical price! Features include steel shanks for stability, heavy-duty double thick cleated outsole for super traction, reinforced knee and toe cap for added protection, heavy cotton lining, large inside utility pocket, chest draw lace, and belt loops. The insulated boot features sponge rubber padding. To ensure these chest waders are 100% waterproof, each pair is tank tested! Order suspenders and belt separately.

Size 7	10 lbs.	**93114**	**$80.25**
Size 8	11 lbs.	**93115**	**$80.25**
Size 9	11 lbs.	**93116**	**$80.25**
Size 10	11 lbs.	**93117**	**$80.25**
Size 11	12 lbs.	**93118**	**$80.25**
Size 12	12 lbs.	**93119**	**$80.25**
Size 13	12 lbs.	**93120**	**$80.25**

PRO LINE

Pro Line® 3-Ply Stretch Nylon Insulated Waders with Thinsulate®

6536

100% waterproof stretchable waders are made of a 3-ply Nylon jersey/rubber material which has test-proven superiority over canvas, rubber or nylon for abrasion resistance! Reinforced knee pads, large inside pocket, belt loops, inside drawstring, ozone-resistant special rubber compounding to avoid cracking and deterioration, and cleated outsole. Insulated with 200 grams of Thinsulate™. Suspenders included. Order belt separately.

Size 7	12 lbs.	**93302**	**$119.50**
Size 8	12 lbs.	**93303**	**$119.50**
Size 9	13 lbs.	**93304**	**$119.50**
Size 10	13 lbs.	**93305**	**$119.50**
Size 11	13 lbs.	**93306**	**$119.50**
Size 12	13 lbs.	**93313**	**$119.50**
Size 13	13 lbs.	**93308**	**$119.50**

PRO LINE

Pro Line® Marsh Creek Chest Waders

7344

Offering a snug, secure fit, these 3.5mm Neoprene insulated waders are air and water tested to assure 100% waterproof protection. All seams are butt cemented, stitched, and sealed. Removable suspenders allow the upper portion of the wader to be rolled down. Additional features include quick release buckles, double knee patches, and a large outside pocket. The boot foot features 200 grams of Thinsulate™ insulation, all vulcanized rubber construction, and a deep cleated outsole for excellent traction. Repair kit and instructions included.

Size 7	10 lbs.	**93226**	**$133.50**
Size 8	10 lbs.	**93227**	**$133.50**
Size 9	10 lbs.	**93228**	**$133.50**
Size 10	10 lbs.	**93229**	**$133.50**
Size 11	10 lbs.	**93230**	**$133.50**
Size 12	9 lbs.	**93231**	**$133.50**
Size 13	10 lbs.	**93232**	**$133.50**

PRO LINE

Pro Line® Extra Size 3.5mm Neoprene Chest Waders

2169

Adjustable straps to fit medium to extra large individuals!

Side panels are adjustable to fit a wide variety of upper sizes. Upper is made of 3.5mm Neoprene and has a front pocket with hook and loop closure, a hand warmer pocket and molded cushion knees. The boot is constructed of a special rubber, ozone-resistant compound with a cleated outsole and 400 grams of Thinsulate™ Ultra Insulation for superior warmth. Suspenders included.

Size 8	11 lbs.	**93593**	**$161.75**
Size 9	11 lbs.	**93594**	**$161.75**
Size 10	12 lbs.	**93595**	**$161.75**
Size 11	12 lbs.	**93597**	**$161.75**
Size 12	12 lbs.	**93500**	**$161.75**
Size 13	12 lbs.	**93501**	**$161.75**

PRO LINE

Pro Line® Wader & Boot Accessories

6538

Peet® Boot & Wader Dryers page 636

Wader Suspenders	4 oz.	**93121**	**$11.95**
Wader Belt	3 oz.	**93122**	**$7.95**

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PRO LINE

Pro Line® Breathable Chest Waders

2429

100% waterproof and breathable thanks to the ProDri™ system. Reinforced double layered knee, hand warmer chest pocket, adjustable nylon webbing suspender with quick release buckle, inside utility pocket, top draw string, nylon webbing wading belt, belt loops, self-fabric gravel cuffs with lace keeper, adjustable side strap, and cleated sole, rubber boot fully lined with neoprene. Tan.

Size 7	7 lbs.	**93577**	**$180.95**
Size 8	8 lbs.	**93580**	**$180.95**
Size 9	8 lbs.	**93581**	**$180.95**
Size 10	8 lbs.	**93582**	**$180.95**
Size 11	8 lbs.	**93583**	**$180.95**
Size 12	8 lbs.	**93584**	**$180.95**
Size 13	8 lbs.	**93585**	**$180.95**

PRO LINE

Pro Line® PVC Backed 420 Denier Chest Waders

2430

PVC boots with 420 denier nylon upper with PVC backing makes these waders 100% waterproof! Features include an inside utility pocket, top draw string, adjustable nylon webbing suspenders with quick release buckle, nylon webbing wader belt with belt loops, and a lug sole. Green.

Size 7	6 lbs.	**93660**	**$73.25**
Size 8	6 lbs.	**93661**	**$73.25**
Size 9	7 lbs.	**93662**	**$73.25**
Size 10	6 lbs.	**93663**	**$73.25**
Size 11	7 lbs.	**93664**	**$73.25**
Size 12	7 lbs.	**93665**	**$73.25**
Size 13	6 lbs.	**93666**	**$73.25**

PRO LINE

Pro Line® Twin River Chest Waders

7242

Extremely lightweight rubber construction with 420D nylon lamination. Cleated outsole provides sure traction and the removable insole ensures all day wearing comfort. Large inside pocket allows for extra storage. Strong drawstring at chest. Dark green. 100% Waterproof.

Size 7	10 lbs.	**94131**	**$83.25**
Size 8	9 lbs.	**94132**	**$83.25**
Size 9	10 lbs.	**94133**	**$83.25**
Size 10	10 lbs.	**94134**	**$83.25**
Size 11	10 lbs.	**94135**	**$83.25**
Size 12	10 lbs.	**94136**	**$83.25**
Size 13	10 lbs.	**94137**	**$83.25**

Economy Vinyl Stocking Foot Waders

6593

Waders have durable electronically welded seams and are extra full cut for a more comfortable fit. Other features include attached suspenders and convenient inside pouch. **Color:** Marsh brown.

Vinyl Stocking Foot Waders, Large, 36″ to 40″ Waist 1 lb.	**93967**	**$13.25**
	24+	**$11.75**

Stealth 1200 Boat page 380

PRO LINE

Pro Line® 34″ Twin River Hip Boots

7345

These rugged hip boots feature lightweight rubber construction with 420D nylon lamination. The cleated outsole offers sure traction, and a removable insole provides all day wearing comfort. The adjustable side strap ensures a perfect fit. 100% Waterproof.

Size 7	6 lbs.	**93208**	**$63.25**
Size 8	6 lbs.	**93209**	**$63.25**
Size 9	7 lbs.	**93210**	**$63.25**
Size 10	6 lbs.	**93211**	**$63.25**
Size 11	7 lbs.	**93212**	**$63.25**
Size 12	6 lbs.	**93213**	**$63.25**
Size 13	8 lbs.	**93214**	**$63.25**

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LaCrosse® 32″ Steel Shank Hip Boot

7679

Provide great protection on muddy, grimy jobsites! These hip boots are made of rugged, 100% waterproof, abrasion-resistant rubber and have a steel toe that meets or exceeds ASTM F2413-05 M I/75 C/75 EH. A slip-resistant Diamond Bar outsole provides excellent traction. Electrical hazard (EH) footwear is manufactured with non-conductive electrical shock resistant soles and heels.

LaCrosse® 31″ ZXT™ Storm Hip Boots with Safety Toe and Steel Midsole

6613

100% waterproof hip boots made of ozone-, abrasion-resistant rubber. ZXT rubber is a premium compound that offers a high tensile strength for increased tear-resistance. 8mm wool-felt midsole and insulated foam rubber. Trac-Lite™ outsole ensures superior traction. Also features an extra rubber protective toecap and a steel shank. Steel safety toe and puncture-resistant steel midsole meet or exceed ASTM standard F2413-11 M I/75 C/75 EH PR. Electrical hazard (EH) footwear is manufactured with non-conductive electrical shock-resistant soles and heels.

LaCrosse® Big Chief Hip Boots

3546

32″ Non-Insulated and 32″ Insulated

This durable, ozone-resistant, all-rubber hip boot is tank tested, 100% waterproof. Contoured ankle fits comfortably. Adjustable knee harness keeps hip boot in place. Also features stretch net boot lining for easy on/off, fiberglass shank, full cushion insole, heavy-duty chevron cleated outsole, and full boot heel. Insulated has 600g Thinsulate™ insulation and Air Grip outsoles.

LaCrosse® 32″ Premium Hip Boots

3650

This hip boot's 100% waterproof, ozone-resistant black rubber compound shell provides high tensile strength and abrasion resistance. Rubber reinforcement at the leg, skirt, and ankle offers excellent durability, and a fiberglass shank provides arch support. The hip boot's tractor-tread Trac-Lite™ outsole assures a sure grip on wet, slippery surfaces. Canvas lining and pull straps allow for easy on/off, and the removable EVA insole provides comfortable cushioning.

Pro Line® 34″ 3-Ply Stretch Nylon Insulated Hip Boots

6542

Made of a stretchable, lightweight and durable 3-ply Nylon jersey/rubber material which has test-proven superiority over canvas, rubber or nylon for abrasion resistance! Other features include reinforced knee pads, outside rubber pull strap for tighter fit, adjustable nylon wader strap, ozone-resistant special rubber compounding to avoid cracking and deterioration, and cleated outsole for super traction. Insulated with 200 grams of Thinsulate™.

Pro Line® Hip Boots

2428

33″ Non-Insulated Rubber

These hip boots are 100% waterproof thanks to the all vulcanized rubber construction. Features include self-cleaning rubber outsole, layered toe cap for longer wear, aggressive padded knee for protection and comfort, and an adjustable hip strap for a better fit. Brown.

	Hip Boots	Size 5	Size 6	Size 7	Size 8	Size 9	Size 10	Size 11	Size 12	Size 13	Weight	$
LaCrosse	32″ Steel Shank Hip Boot			94566	94567	94568	94569	94570	94591	94592	8 lbs.	$72.95
	31″ ZXT Storm			95301	95302	95303					8 lbs.	$121.95
							95304	95305			9 lbs.	$121.95
									95306	95307	9 lbs.	$121.95
	Big Chief Non-Insulated	93398	93399	93426	93427	93428	93430	93431	93432	93433	9 lbs.	$104.75
	Big Chief Insulated		93437	93414	93415						9 lbs.	$118.25
						93416	93417	93418	93419	93420	10 lbs.	$118.25
	Premium		93373	93374	93375	93376					7 lbs.	$107.75
							93377	93378	93379	93388	8 lbs.	$107.75
Pro Line	3-Ply Stretch Nylon Insulated			93292	93293	93294	93295	93296	93297	93298	10 lbs.	$104.25
	33″ Non-Insulated Rubber			93526	93527	93529	93530	93531	93532	93534	9 lbs.	$56.50

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Mudders Mud & Snow Shoes
3551

Move effortlessly across mud, snow, or sand without sinking down or getting stuck!

Constructed of chemical-resistant, non-stick plastic. Utilize expandable wings to provide 180 square inches of support when crossing soft terrain. Worn over boots or waders, the wings expand as you step onto soft surfaces to increase boot area by four times and then retract to 8″ when you lift your foot. Webbing on the underside of the wings forms a sealed chamber to trap air and eliminate "suction" common with other footwear. Quick cinch-and-release boot straps. Sold by the pair. One size fits all.

Mudders Mud & Snow Shoes 6 lbs.	**93705**	**$132.95**
	3+	**$122.50**

Han-De-Boot Rack
3570

This boot rack keeps your boots neat, helps them dry faster, and prevents them from folding and creasing which helps them last longer. Mounts easily in truck beds, shops, garages, etc., with only two screws. Holds two boots. Made of 1/4″, rust-resistant, galvanized steel. **Dimensions:** 9.5″W x 9.5″L x 3.5″H.

Han-De-Boot Rack 14 oz.	**95218**	**$5.50**

Grabber® Toe Warmers
page 621

Nylon Minnow Seines
page 379

New! ThermaCELL® ProFLEX Heated Insoles
4951

Slip these innovative heated insoles into your shoes or boots for dependable warmth in the harshest environments! Using the wireless remote that is uniquely coded for your insoles, select from three temperature settings. A built-in thermostat ensures that the insoles maintain the temperature you choose. ProFLEX insoles are powered by removable, rechargeable batteries, allowing you to quickly swap out depleted batteries with fully charged batteries to keep your feet continuously warm. (Extra batteries are sold separately.) The batteries supply up to five hours of power per charge and can be recharged using the included wall charger or any USB port. The water-resistant insoles feature flexible, breathable polyurethane foam that efficiently transfers heat and offers both superior shape retention and shock absorbency. The insoles can be trimmed for a custom fit.

Medium, Men's 5.5 to 7; Women's 6.5 to 8	1 lb.	**93586**	**$179.95**
Large, Men's 7.5 to 9; Women's 8.5 to 10	1 lb.	**93587**	**$179.95**
X-Large, Men's 9.5 to 11; Women's 10.5 to 12	1 lb.	**93588**	**$179.95**
XX-Large, Men's 11.5 to 13; Women's 12.5 to 14	1 lb.	**93589**	**$179.95**
Battery Pack, Includes two batteries.	7 oz.	**93516**	**$39.95**

New! ThermaCELL® Heated Insoles
4951

These rechargeable heated insoles provide reliable warmth even in subfreezing conditions! The insoles feature a built-in thermostat to keep the temperature regulated. A wireless remote allows you to select from three temperature settings, and the remote is uniquely coded to operate your specific pair of insoles. Lithium-ion polymer batteries embedded in the insoles can be recharged more than 500 times, and each charge provides up to five hours of operation. Recharge the insoles using the included wall charger or a 12V DC charger (sold separately). In addition to a cushioned top layer that provides superior comfort and support, the water-resistant insoles feature an insulated bottom layer that prevents heat from escaping, and the insoles are trimmable for a custom fit.

Medium, Men's 5.5 to 7; Women's 6.5 to 8	15 oz.	**93512**	**$129.95**
Large, Men's 7.5 to 9; Women's 8.5 to 10	15 oz.	**93513**	**$129.95**
X-Large, Men's 9.5 to 11; Women's 10.5 to 12	16 oz.	**93514**	**$129.95**
XX-Large, Men's 11.5 to 13; Women's 12.5 to 14	16 oz.	**93515**	**$129.95**
12V DC Charger, Plugs into your vehicle's 12V DC outlet to recharge a pair of insoles in four hours or less.	4 oz.	**93596**	**$19.95**

PEET DRYER

New! Peet® O3 Odor Eliminator
4879

O3 Science sinks, penetrates and destroys odors by electrically charging the normal oxygen molecules and transforming them into ozone, or activated oxygen which breaks off to attach and destroy odors and pollution molecules. Designed for use inside footwear, hand wear and head wear. Easy to use. Operates on 4 "C" Cell batteries (not included) or the AC adapter (included). Meets EPA and OSHA ozone standards.

Peet O3 Odor Eliminator 1 lb.	**95233**	**$69.99**

PEET DRYER

Peet® Advantage Shoe Dryer
8610

Patented PEET® DryPorts™ circulate air with a fan for thorough drying (dries most items in 1-3 hours depending on saturation of item). Ionization technology eliminates bacteria and other contaminants. Choice of heat/no-heat drying and timing. Large, sturdy base handles even two pair of large, heavy boots. Ideal for all types of materials. Comes with four (4) Footwear DryPorts to dry two pairs at once.

Peet Advantage Shoe Dryer 6 lbs.	**95236**	**$84.99**

PEET DRYER

Peet® Boot & Wader Dryer
3566

Electric Model

Dry all types of boots and shoes with constant warm air circulation. Use one pair of 12″ extensions (sold separately) for hip boots; two pair for chest waders. 110V AC. UL® approved.

Peet Electric Boot & Wader Dryer 3 lbs.	**95220**	**$44.99**
12″ Wader Extensions 13 oz.	**95221**	**$9.99**

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Muck Boot 16″ Wetland™ Premium Field Boot
4326

The Wetland's premium breathable Airmesh™ lining and flex-foam bootie with four-way stretch nylon offer unmatched comfort. The boot's snag-resistant cover is 100% waterproof, and the seamless footbase overlay makes clean-up easy. The Wetland also features a molded rubber outsole, stretch-fit collar to keep warmth in, and a kick rim and spur catch for easy-on/ easy-off.

Muck Boot 15″ Edgewater™ Field Boot
4325

For those who love the great outdoors, the Edgewater is for you. The reinforced, protective shell and all-terrain outsole make this boot perfect for camping, hunting, fishing, and off-road sports. Features a flex-foam bootie with four-way stretch nylon and snag-resistant cover that comfortably forms to virtually any size calf. Completely waterproof and insulated to sub-freezing temperatures.

Muck Boot 15″ Steel Toe Chore Boot
8541

100% waterproof, lightweight, flexible and buoyant. Upper is triple reinforced in the toe area and quadruple reinforced in the heel. Stretch-fit topline binding snugs calf to keep warmth in. Additional achilles reinforcement, kick rim for easy removal, wide-cut heel base for stability, diamond textured toe and heel reinforcement resists scuffs and scratches, durable rubber outsole, seamless quick-clean rubber overlay, and a breathable Airmesh™ lining. **Comfort Range:** from sub-freezing conditions to 85° F. Meets ASTM F2413-05.

Muck Boot 17″ Woody Sport Cool Boot
4648

The XpressCool™ lining in this boot keeps your feet cool and comfortable even in hot weather! The lightweight, flexible boot is 100% waterproof and features a 4mm CR flex-foam bootie with four-way stretch nylon. An etc® sockliner reduces friction and heat buildup. The boot provides reliable protection with Achilles reinforcements, a reinforced toe, and a wrap-up bumper. Features a molded rubber Speed-Tracker outsole with molded EVA midsole. Mossy Oak® Obsession camo.

Men's	Size 5	Size 6	Size 7	Size 8	Size 9	Size 10	Size 11	Size 12	Size 13	Size 14		
Women's	Size 6	Size 7	Size 8	Size 9	Size 10	Size 11	Size 12	Size 13			Weight	$
Wetland Field Boot	—	—	94421	94422	94423	94424	94425	94426	94427	94428	6 lbs.	$144.95
Edgewater Field Boot	94411	94412	94413	94414	94415	94416	94417	94418	94419	94420	7 lbs.	$109.95
Steel Toe Chore Boot	94208	94209	94210	94211	94212	94213	94214	94215	94216	94217	8 lbs.	$124.95
Woody Sport Cool Boot	—	—	94180	94181	94182	94183	94184	94185	94186	94187	6 lbs.	$164.95

Onguard FLEX 3 15″ Plain Toe Kneeboot with Power-Lug Outsole
7037

Special PVC upper compound of these boots resists animal fats, acids, oils, and chemicals.

Soles are constructed of a high-density, abrasion-resistant compound, feature lower toe spring to better distribute weight and reduce stress on your back, and have a special pattern that channels out debris and increases traction. The cut-off band contours to the leg for comfort while a wide shaft accommodates pants leg. Snug ankle fit to reduce heel slippage, low-density heel material to absorb impact and reduce strain on heel bone, extended steel shank for heel and instep support, and built-in arch support. Made in USA.

Onguard Monarch 16″ Steel Toe Kneeboot with Cleated Outsole
3560

This 100% waterproof boot features cushion insoles, pull-up and kick-off lugs for easy on and off, and a cut-off band for height adjustment. Manufactured using a minimum of 88% pre-consumer recycled materials. Complies with ASTM F2413-05 standard. Made in USA.

Pro Line® 16″ Economy Rubber Knee Boot
6545

These 100% waterproof boots feature all vulcanized rubber construction. The high content rubber compounds provide both strength and durability while the deep-cleated rubber outsole with steel shank provides superior traction.

Brand	Style	Size 5	Size 6	Size 7	Size 8	Size 9	Size 10	Size 11	Size 12	Size 13	Weight	$
Onguard	15″ FLEX 3 Plain Toe		93380	93381	93382	93383	93384	93385	93386	93387	6 lbs.	$39.50
	16″ Monarch Steel Toe PVC	93248	93252	93366	93367	93368	93369	93370	93371	93372	7 lbs.	$22.95
Pro Line	Economy Rubber			93564	93565	93566	93567	93568	93569	93570	5 lbs.	$33.25

Note: All sizes listed are men's sizes. A woman should order the men's size which is two sizes smaller than the women's size she wears (e.g., men's size 5 would be equivalent to a women's size 7).

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New! LaCrosse® 15″ Women's Alphaburly® Pro Realtree® Xtra Green Boots
4936

These boots combine scent-free rubber construction with naturally insulating neoprene. The embossed neoprene liner offers excellent air circulation. In addition to a fiberglass shank, the boots also feature a thick cushioning EVA midsole for shock absorption and an Ankle-Fit design that locks the heel in place for stability. The Burly Pro outsole delivers superior traction, and the adjustable rear gusset allows for a customized fit. Rated for temperatures from -20°F to 60°F. Realtree® Xtra Green camo pattern.

New! LaCrosse® 18″ AeroHead Mossy Oak Infinity Boots
4934

Utilizes patent-pending AeroForm technology! Liquid polyurethane over neoprene construction delivers a glove-like fit. An injected PU midsole provides cushioning, and an integrated shank covers the arch area. The waterproof boots also feature Armor Weld liquid rubber protective coating on the seams, a quick-drying jersey knit liner that wicks away moisture, an Ankle-Fit design that keeps the ankle in place, 3.5 mm naturally insulating neoprene, and an adjustable back gusset and strap for a customized fit. Mossy Oak Infinity camo pattern.

LaCrosse® 16″ SPOG Safety Toe Work Boots
4636

Feature a seamless exterior made of chemical-resistant dipped latex neoprene and have been chemically tested against 28 industry chemicals. The boot is Electrical Hazard rated and meets or exceeds ASTM F2892-11 EH. The non-metallic toe meets or exceeds ASTM F2413-11 M I/75 C/75 EH standards. Breathable air mesh lining provides air circulation inside the boot, and a rubber cup outsole offers oil-resistant, slip-resistant traction. Removable EVA footbed, a fiberglass shank, and an adjustable back gusset and strap.

LaCrosse® 18″ Alphaburly Pro Boots
4641

Featuring multi-layered LaCrosse Alpha Construction, these boots offer a snug yet flexible fit and scent-free, waterproof protection. The boots are made of all-natural, hand-crafted rubber over insulating neoprene. In addition to a contoured Ankle-Fit design that prevents heel slippage, the boots feature a removable EVA footbed and a bidirectional embossed neoprene liner for improved air circulation. The Burly® Pro outsole ensures outstanding traction and stability with no mud buildup. An adjustable back gusset and strap allow for a customized, comfortable fit.

LaCrosse® 18″ Burly Insulated Pull-On Boots
3555

These 100% waterproof rubber boots feature an adjustable top strap that helps keep out rain, snow, and dirt. Other features include stretch-nylon lining in upper boot for easy on and off and strong steel shanks for arch support. Designed for year-round wear, these boots feature flexible, warm polymeric foam insulation, thick 9 mm felt midsoles, and deep gripping chevron lug soles.

LaCrosse® 18″ Grange Non-Insulated Pull-On Boot
3557

Features ankle fit for all-day comfort and support, nylon stretch-net lining for easy on-off, strap and buckle adjustment at top, and ribbed vamp to resist snagging. Ozone-resistant olive drab rubber construction, supportive fiberglass shank, full cushion insole for added comfort, and spade shank outsole with heavy-duty chevron design for added traction.

LaCrosse® 6″ Hampton Boots
7587

100% Waterproof boots made of ozone-resistant rubber over naturally insulating 3 mm neoprene. Based on the LaCrosse® lightweight Alpha™ design, these boots feature extra comfort and shock absorption, superior traction and stability, cushioning EVA footbed, pull tabs and an Aqua™ outsole.

LaCrosse Boots	Size 5	Size 6	Size 7	Size 8	Size 9	Size 10	Size 11	Size 12	Size 13	Weight	$
15″ Women's Alphaburly Pro		94497	94498	94499	94520	94501				6 lbs.	$129.95
18″ AeroHead Infinity Boots		94785	94786	94787	94788	94789	94790	94791	94792	7 lbs.	$119.95
16″ SPOG Safety Toe		94777	94778	94779	94780	94781	94782	94783	94784	8 lbs.	$129.75
18″ Alphaburly Pro Boots		94315	94316	94317	94318	94319	94320	94321	94322	6 lbs.	$124.95
18″ Burly Insulated Pull-On	93445	93446	93434	93435						6 lbs.	$79.25
					93436	93439	93440	93441	93442	7 lbs.	$79.25
18″ Grange Non-Insulated Pull-On	93450	93451	93443	93466						6 lbs.	$71.25
					93467	93468	93469	93470	93471	6 lbs.	$71.25
6″ Hampton Boots			93460	93461	93462	93463	93464	93465	93459	4 lbs.	$99.95

Note: All sizes listed, except for the Women's Alphaburly Pro, are men's sizes. A woman should order the men's size which is two sizes smaller than the women's size she wears (e.g., men's size 5 would be equivalent to a women's size 7).

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Rocky® 16″ Prolight Snake Boots
7191

Constructed with lightweight, flexible ProLight outsoles,these waterproof, snakeproof boots are not bulky, heavy or constrictive. The soft, split leather and lightweight 900-denier nylon conform to your feet for maximum comfort while the mesh moisture-management system prevents blisters and hot spots from forming. Other features include an AchillesFlex™ system that forms a joint that collapses and expands for mobility, a padded section at the ankle to support your gait over rough terrain, and ankle lace-locks that use zip-cinch cords for tightening and loosening.

New! Danner® Steadfast 17″ Realtree® Xtra Green Snake Boots
8654

360° snakeproof protection. Boot features the Danner® Comfort System. The anatomical design and broad toe box offer a responsive fit, and the patent-pending dual-density footbed provides outstanding cushioning. Supportive Airthotic® heel clip, underfoot venting for maximum airflow, and a Danner® Steadfast outsole. The boot boasts nubuck leather construction along with a 900 denier nylon upper, a thermoplastic polyurethane shank, and Danner® Dry lining for waterproof protection.

LaCrosse® Alpha Mudlite 18″ Snakeproof Boot
7936

Providing 360° snakeproof protection, this scent-free, waterproof boot features all natural hand-crafted rubber over 3.5mm neoprene insulation. Adjustable back gusset and strap. Shin guard provides climbing protection. Contoured Ankle-Fit™ design prevents heel slippage, and the Mudlite rubber cup outsole ensures slip-resistant traction. LaCrosse® Aircirc system provides excellent air circulation inside the boot. Removable EVA footbed. Non-exposed floatable shock-absorbing midsole. Realtree® APG® camouflage pattern.

New! LaCrosse® 18″ Venom Realtree APG Snake Boots
4935

This boot features 360° Snake Guard to provide the ultimate in snake bite protection! The entire boot is lined with Dry-Core, a waterproof, scent-free barrier that prevents water from entering the boot. Scent Suppressing® material adds antimicrobial fibers in the boot's liner. An EVA midsole and PU footbed offer extra cushioning. In addition, the boot features a steel shank, a reinforced abrasion-resistant toe cap, and a Low Country outsole that increases traction. The boot laces up from the toe and features a side zipper for easy on/off. Realtree APG camo pattern.

Brand	Style	Size 7	Size 8	Size 8.5	Size 9	Size 9.5	Size 10	Size 10.5	Size 11	Size 11.5	Size 12	Size 13	Weight	$
Rocky	16″ Prolight		94894	94895	94896	94897	94898	94899	94900	94901	94902	94903	6 lbs.	$144.50
Danner	Steadfast 17″ Realtree Xtra Green	94360	94361		94362		94363		94364		94365	94366	7 lbs.	$189.95
LaCrosse	18″ Alpha Mudlite	93644	93645		93646		93647		93648		93649	93650	8 lbs.	$154.95
	18″ Venom Realtree APG	94760	94761		94762		94763		94764		94765	94766	7 lbs.	$154.95

Shown with Optional Steel Base

Scrusher® Boot Cleaners
3571

Cleans soles and sides in one motion.

The Original Scrusher®

This boot cleaner has a steel frame with poly bristles positioned to clean both the bottom and sides of boots or any type of shoes. Five-year manufacturer's warranty. For use in any location, attach the Scrusher to an optional portable steel base to avoid permanent mounting. Instructions and hardware included.

Scrusher	4 lbs.	95210	$31.95
		4+	$28.75
Optional Steel Base	4 lbs.	95211	$12.75

Big Boot Scrusher®

Specially sized and designed to take on the biggest boots in the toughest situations. The extra sturdy steel frame is hand-welded to withstand the heaviest workload. The replaceable brushes are designed to completely clean even the dirtiest boots - stiff nylon brushes on the bottom to thoroughly clean soles with softer side bristles for cleaning the upper shoe without damaging the leather! Both are set to let the dirt fall through, so that your Big Boot Scrusher stays clog-free. Rubber stoppers protect floors and prevent slipping. No assembly required. **Dimensions:** 20.3″L x 6.8″W x 6.8″H. **Weight:** 9 lbs.

Big Boot Scrusher	8 lbs.	95219	$64.75

The Extractor Snake Bite and Sting Kit
3602

No cutting necessary!

Suction pump painlessly extracts up to 80% of the poison in three minutes from snakebites and insect stings by creating a vacuum on the surface of the skin. Small, light, reusable. Can be used with one hand. Kit includes four different size suction cups, safety razor for removing body hair around bite, one PVP Iodine wipe, three bandages, high-visibility plastic case, poison directory, and first aid manual. Case measures 3-1/4″ x 4-3/4″ x 1-3/8″.

The Extractor	5 oz.	25679	$17.75
Snake Bite and Sting Kit		6+	$16.50

Note: This kit is not a substitute for medical care!

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Rattlers® Scale Tech Snake Chaps
8231

The Scale Tech patented technology of these chaps overlaps the layers for complete protection! The 1000 Denier basket-weave nylon fabric features a proprietary polyurethane coating process making them waterproof. Three adjustment straps and 14″ zippers for pulling on over boots. **Color:** Green.

Regular Size - 25″ Thigh, 20″ Cuff

Short, 27″-30″ Inseam	3 lbs.	**22011**	**$39.95**
Regular, 30″-33″ Inseam	3 lbs.	**22012**	**$39.95**
Long, 33″-36″ Inseam	4 lbs.	**22013**	**$39.95**

Husky Size - 28″ Thigh, 23″ Cuff

Short, 27″-30″ Inseam	3 lbs.	**22014**	**$39.95**
Regular, 30″-33″ Inseam	3 lbs.	**22015**	**$39.95**
Long, 33″-36″ Inseam	3 lbs.	**22016**	**$39.95**

ScentBlocker® Snake Chaps
4225

These chaps provide excellent protection from all poisonous North American snakes. Constructed from spun polyester duck with a neoprene coating and featuring 2 adjustable, quick release buckle closures and adjustable straps for different inseams. **Colors may vary.**

Regular – 25″ Thigh

Regular, 29″ to 32″ Inseam	3 lbs.	**23017**	**$68.75**
Short, 25″ to 28″ Inseam	3 lbs.	**23016**	**$68.75**
Long, 33″ to 36″ Inseam	3 lbs.	**23018**	**$68.75**

Husky – 28″ Thigh

Regular, 29″ to 32″ Inseam	4 lbs.	**23019**	**$68.75**
Short, 25″ to 28″ Inseam	3 lbs.	**23011**	**$68.75**
Long, 33″ to 36″ Inseam	3 lbs.	**23012**	**$68.75**

Rattlers® Original Snake Chaps
2773

Constructed of abrasion-resistant 1000 Denier basketweave DuPont Cordura® nylon, with single-layer protection above the knee and double-layer protection below the knee. Water-resistant polyurethane coating. Adjustable side straps and a heavy-duty, non-corrosive zipper hold each chap securely in place. Briar- and thorn-proof. **Color:** Brown.

Regular Size – 25″ Thigh, 20″ Cuff.

27″-30″ Inseam	2 lbs.	**23070**	**$64.50**
30″-33″ Inseam	2 lbs.	**23071**	**$64.50**
33″-36″ Inseam	2 lbs.	**23072**	**$64.50**

Husky Size – 28″ Thigh, 23″ Cuff.

27″-30″ Inseam	2 lbs.	**23073**	**$64.50**
30″-33″ Inseam	3 lbs.	**23074**	**$64.50**
33″-36″ Inseam	3 lbs.	**23075**	**$64.50**

Rattlers® Scale Tech Snake Gaiters
8230

16″

ScaleTech is a revolutionary, patent-pending technology that overlaps the layers resulting in complete protection from the ankle to the knee. The water repellent 1000 Denier basket-weave nylon fabric also provides briar and brush protection. Strap buckle closure. One size fits most, up to 21″ calf. **Color:** Green.

Rattlers Scale Tech Snake Gaiters	2 lbs.	**22010**	**$39.95**

ScentBlocker® Snake Gaiters
4224

Dependable protection from snake bites!

These snakeproof gaiters provide full protection below the knee. Constructed of a durable poly-cotton blend fabric and treated with a patented laminating process to make these gaiters tough, yet quiet when walking. Two adjustable, quick release buckle closures and comfortable contour design keep gaiters securely in place. **Color may vary.**

Regular –	2 lbs.	**23003**	**$49.50**
fits up to 18″ calf		5+	**$44.75**
Large –	2 lbs.	**23004**	**$49.50**
fits 18″ to 21″ calf		5+	**$44.75**

Rattlers® Original Snake Gaiters
2774

Constructed of abrasion-resistant 1000 Denier basketweave DuPont Cordura® nylon, with triple-layer knee-to-ankle protection. Water-resistant polyurethane coating. Hook-and-loop closures plus snaps and adjustable web straps hold each gaiter securely in place. Briar- and thorn-proof. **Color:** Brown.

Regular Size, 18-1/2″ Calf Size	2 lbs.	**23091**	**$56.50**
Husky Size, 21-1/2″ Calf Size	2 lbs.	**23092**	**$56.50**

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Made in USA

TurtleSkin® SnakeArmor Total Protection Snake Chaps

2736

Incredibly lightweight and flexible, these chaps provide snake and thorn protection from your ankle to your thigh. Constructed from a patented, super-tight weave of ballistic fibers and polyester, the high-strength TurtleSkin fabric offers a cool, comfortable fit. Waterproof, windproof, and machine washable. Made in USA. **Color:** Khaki.

Regular

Short, 25″ Thigh, 27″-29″ Inseam	2 lbs.	**23179**	**$259.00**
Regular, 25″ Thigh, 30″-32″ Inseam	2 lbs.	**23180**	**$259.00**
Tall, 25″ Thigh, 33″-35″ Inseam	2 lbs.	**23181**	**$259.00**

Husky

Short, 28″ Thigh, 27″-29″ Inseam	2 lbs.	**23116**	**$259.00**
Regular, 28″ Thigh, 30″-32″ Inseam	2 lbs.	**23117**	**$259.00**
Tall, 28″ Thigh, 33″-35″ Inseam	2 lbs.	**23126**	**$259.00**

Made in USA

TurtleSkin® SnakeArmor Below-the-Knee Protection Snake Chaps

2736

16″ of patented, high-strength TurtleSkin fabric from the ankle to the knee to protect against snakebites. The soft outer shell is waterproof, windproof, and breathable for outstanding comfort. Machine washable. Made in USA. **Color:** Khaki.

Regular, 25″ Thigh

Short, 27″ to 29″ Inseam	1 lb.	**23024**	**$164.00**
Regular, 30″ to 32″ Inseam	1 lb.	**23025**	**$164.00**
Tall, 33″ to 35″ Inseam	1 lb.	**23026**	**$164.00**

Husky, 28″ Thigh

Short, 27″ to 29″ Inseam	1 lb.	**22961**	**$164.00**
Regular, 30″ to 32″ Inseam	1 lb.	**23027**	**$164.00**
Tall, 33″ to 35″ Inseam	1 lb.	**23028**	**$164.00**

Snake Hooks page 404

Made in USA

TurtleSkin® SnakeArmor Snake Gaiters

2736

Lightweight, flexible, and breathable, these gaiters provide reliable snakebite protection! The gaiters are constructed from a super-tight, patented weave of high-strength ballistic fibers and polyester. Simply zip up the back and cinch the elastic top for a secure fit. The reversible gaiters are also waterproof and windproof. Made in USA. **Color:** Khaki/Camouflage (reversible).

Regular, 20″ Top of Calf, 17″ Ankle, 16″ Length	12 oz.	**22960**	**$139.00**
Husky, 23″ Top of Calf, 20″ Ankle, 16″ Length	12 oz.	**22980**	**$157.00**

Plastic Leggings

3589

Safe, positive protection against snakebite, briar, and thorns. Lightweight, comfortable, one-piece plastic construction. No buckles, straps, or snaps. Fast and easy on-off design. One size fits all. Washable. **Color:** Olive Drab.

Plastic Leggings	1 lb.	**23080**	**$45.25**

Wire Mesh Snakeproof Leggings

3588

Safety tested at the Ross Allen Reptile Institute and in the field. Made with heavy, closely woven wire mesh covered with two layers of water-repellent, olive drab canvas. Protects against snakes, brush and briars. Adjustable straps and non-slip, nonreflective buckles. One size fits all. **Color:** Olive Drab.

Wire Mesh Snakeproof Leggings	2 lbs.	**23090**	**$74.50**
	4+		**$70.25**

ScentBlocker® Diamondback Premium Snake Gaiters

4709

Lightweight, durable polyester shell protects your lower legs from snake bites, thorns and briars. Plus, the Rainblocker® protection makes them 100% waterproof, while the brush blocker shin guards provide extra abrasion-resistance. Unparalleled comfort is also achieved thanks to the 3 adjustable straps that wrap around the leg while the adjustable stirrup sits under the boot allowing you to find the perfect fit. Measure 17″ tall. **Color:** Buckskin.

Regular Size - Fits up to 18″ Calf	3 lbs.	**23086**	**$59.95**
Large Size - Fits 18″-21″ Calf	3 lbs.	**23087**	**$59.95**

[search engine powered by magazooms.com]

Nite Lite Brush Chaps
7186

Water-repellent, brush tough, flexible and made to last. Constructed of double layer nylon for added durability plus they feature heavy-duty leg zippers for easy on/off and durable quick snap adjustable straps.

28″ Long 11 oz.	**23505**	**$28.75**
30″ Long 13 oz.	**23506**	**$28.75**
32″ Long 13 oz.	**23507**	**$28.75**

Brush Buster Chaps
3597

Comfortable and lightweight.

Protect your legs and clothing against briar and brush with these comfortable, lightweight, water-repellent chaps constructed of quality Cordura® nylon, double stitched at hems to prevent frayed ends. Adjustable web belt strap has three snaps – one size fits all. Available in light gray or hi-vis orange. 33-1/2″L.

Light Gray 14 oz.	**23409**	**$34.25**
Hi-Vis Orange 12 oz.	**23395**	**$34.25**

Filson® Heavy-Duty Brush Chaps
3598

100% Cotton chaps – cooler than nylon!

These tough, weatherproof chaps are constructed of sturdy, 10 oz. 100% cotton. Natural color duck fabric is cooler than nylon. Oil finish keeps water out. Each chap has two adjustable belt straps – place one on each side of a belt loop for a no twist, snug fit.

Regular Chaps, 29″- 31″ inseam 2 lbs.	**23513**	**$80.00**
Long Chaps, 32″- 34″ inseam 2 lbs.	**23514**	**$80.00**

Bushwackers Briar-Proof Chaps
3596

Virtually impenetrable by thorns or briars.

Heavy-duty Cordura® nylon is lightweight, flexible, waterproof, and abrasion-resistant. 21″ Heavy-duty zipper closes from knee down. Belt strap has snap closure. Brown.

Regular, 25″ thigh, 20″ cuff, 28″-30″ inseam 1 lb.	**23510**	**$50.75**
Regular, 25″ thigh, 20″ cuff, 30″-32″ inseam 1 lb.	**23511**	**$50.75**
Regular, 25″ thigh, 20″ cuff, 32″-34″ inseam 1 lb.	**23512**	**$50.75**

Okefenokee Joe: Know Your Snakes DVD
page 405

Council Kaiser Bank Blades
page 225

New! Outdoor Research BugOut Gaiters™
4809

Protection from both insects and debris!

These rugged gaiters are treated with Insect Shield® Permethrin insect repellent to effectively guard against mosquitoes, ticks, ants, flies, chiggers, and midges. The EPA-registered repellent lasts through 70 washings. Constructed of breathable, lightweight nylon packcloth, the gaiters feature a reinforced boot lace hook, a Hypalon® instep strap, and elastic at the top and bottom edges. A 1″W hook/loop front closure allows for easy on/off, and top and bottom shear tabs ensure a secure fit. Lifetime guarantee from the manufacturer. **Color:** Tan. **Weight:** 4.4 oz.

Small, Fits Men's sizes 4 to 7 and Women's sizes 5 to 7	5 oz.	**25103**	**$45.00**
Medium, Fits Men's sizes 6 to 9 and Women's sizes 7 to 9	6 oz.	**25104**	**$45.00**
Large, Fits Men's sizes 8 to 11 and Women's sizes 9 to 11	6 oz.	**25112**	**$45.00**
Extra Large, Fits Men's sizes 10 to 13 and Women's sizes 11.5 and up	6 oz.	**25114**	**$45.00**

Tick and Chigger Gaiters
6954

Seal your pants to your boots to prevent ticks, chiggers, and more from crawling up your legs!

These gaiters even keep debris from getting in your boots and your laces from untying by catching on brush and vines. Heavy-duty material stretches allowing you to slip the gaiters on over your boots and pants.

1 pair	3 oz.	**25092**	**$13.50**
		10+	**$11.75**

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Bug Cap®
8003

Cap and mosquito net in one!

A storage pocket above the visor of this cap holds a nylon mosquito net which falls comfortably to the shoulders when released. Adjustable elastic cords hold the net firmly in place. The mesh netting allows excellent visibility and ventilation, and the cap visor keeps the net at a comfortable distance from the face. Cap is cotton/polyester. Adjustable size strap, one size fits most.

Bug Cap	5 oz.	**24450**	**$24.50**
		10+	**$21.95**

New! Atwater Carey® Headnet
4853

With Built-In Insect Shield®

Built-in Insect Shield® permethrin insect repellent repels mosquitoes, ticks, flies and fleas. Head net is made of high visibility, fire-resistant nylon mesh netting. Includes a convenient stuff sack. One size fits all - covers headwear.

Atwater Carey® Headnet	Ⓡ	1 oz.	**23484**	**$11.95**

New! Mosquito Head Net
6008

The elastic neck of this head net provides a snug fit to ensure outstanding protection against all insects! Features 100% polyester fine mesh netting and a nylon portion at the top of the net. Olive drab.

Mosquito Head Net	1 oz.	**23436**	**$5.95**

The Original Bug Shirt®
6005

Lightweight and compact.

This entire shirt folds into its own zippered pocket for carrying on a belt clip. Made of a breathable polyester microfiber that bugs can't bite through, it features mesh sleeves and sides for letting cool breezes in while keeping bugs out. The mesh face provides excellent visibility and is attached to a zippered hood that can be worn over a baseball cap or hardhat when zipped or thrown back when not zipped. The waist and wrists have adjustable closures and can be sealed off against insect intrusion. **Color:** Ivy green.

Bug Shirt, Medium	10 oz.	**53835**	**$56.75**
Bug Shirt, Large	10 oz.	**53836**	**$56.75**
Bug Shirt, X-Large	10 oz.	**53837**	**$56.75**
Bug Shirt, XX-Large	10 oz.	**53838**	**$56.75**

New! Coghlan's Bug Jacket
4131

Offering outstanding protection against mosquitoes, wood ticks, deer ticks, and no-see-ums, this jacket is made from 100% polyester ultra-fine no-see-um mesh that is flame-retardant, lightweight, and cool. A zipper at the neck allows for easy access to the face, and the elasticized drawstring waist and cuffs ensure that insects stay out.

Small, Fits up to 160 lbs.	6 oz.	**53886**	**$13.50**
Medium, Fits up to 200 lbs.	6 oz.	**53887**	**$13.50**
Large, Fits up to 240 lbs.	6 oz.	**53888**	**$13.50**
X-Large, Fits up to 300 lbs.	6 oz.	**53889**	**$15.25**

Ⓡ Cannot be sold internationally

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New! Gotcha Sprayer Pro™

4989

Use the Gotcha Sprayer Pro adaptor with virtually any standard aerosol can to easily and safely spray hard-to-reach areas! Simply place the can in the adaptor and then attach the adaptor to an extension pole (sold separately). A trigger mechanism dispenses the spray, and the adaptor adjusts to almost any angle to reach the precise target area. In addition to saving time, the Gotcha Sprayer Pro also reduces the risk of ladder injuries and decreases exposure to spray chemicals. Ideal for use with wasp/hornet spray, spray paint, aerosol window cleaner, and pruning compound. Includes diamond braided cord.

Gotcha Sprayer Pro Adaptor 7 oz.	25427	$27.50

Telescoping Extension Pole

Three-section pole extends from 4.25′ to 11.75′. Features a composite fiberglass handle, aluminum tube, and 3/4″ die-cast metal threaded end.

Telescoping Extension Pole 2 lbs.	25426	$37.95

Mosquito Dunks®

2353

Safe, effective mosquito control for 30 days or longer!

Mosquito Dunks are made with natural B.t.i. (Bacillus thuringiensis israelensis), a bacteria which is deadly to mosquito larvae but harmless to humans, fish, and other animals. The sustained-release B.t.i. kills mosquito larvae before they can mature into adults. Simply place the Mosquito Dunk in your pond, water garden, or any place where water accumulates and mosquitoes breed. One Dunk treats up to 100 square feet of surface water (regardless of depth) for 30 days or longer. The Dunks retain their potency even after being dried out or stored.

Mosquito Dunks, pack of 6 4 oz.	R10	25334	$12.25
		6+	$10.95
		12+	$9.65
Mosquito Dunks, Pack of 20 12 oz.	R10	25339	$26.50
		3+	$24.50
		6+	$22.25

Propane Insect Fogger

2623

Provides ultimate portability!

Completely portable, this lightweight thermal fogger is powered by a standard propane cylinder (not included). Because fogging reduces insecticide into microscopic particles which average 15 microns in diameter, the fog spreads easily through the air. The fogger features an unbreakable 40 oz. capacity insecticide container, and a trigger lock mechanism prevents accidental dispensing of insecticide. One pint of insect fog is included. Not recommended for indoor use.

Propane Insect Fogger	R10	3 lbs.	25315	$69.95
Insect Fog, 64 oz.	R10	4 lbs.	25318	$19.95

Talstar® Xtra Granular Insecticide

7755

Featuring Verge™ Granule Technology

Proven to eliminate dangerous fire ant colonies in four hours or less, this broad spectrum control insecticide is labeled for use against most ants, as well as chinch bugs, fleas, ticks, mole crickets, crane flies and many other lawn pests. Approved for broadcast lawn, perimeter and mound treatments on a wide variety of application sites, including residential lawns, institutional grounds, around buildings (public, commercial and industrial), parks, recreational areas, and athletic fields. Unique sand core granular structure prevents granules from drifting off target and provides better penetration into mulch.

Active Ingredient: Zeta-Cypermethrin, 0.05%; Bifenthrin, 0.20%. **Broadcast Application Rate:** 0.125-0.50 lbs. / Acre.

Talstar Xtra Insecticide, 25 lb. Bag	R10	25 lbs.	17115	$39.75

R10 Restricted. Cannot be sold in CA.

Amdro® Yard Treatment Fire Ant Bait

8338

This bait provides 3-way protection against fire ants: it kills the Queen, it sterilizes new invading Queens, and it prevents new mounds from forming. Broadcast treatment treats up to 10,000 sq. ft. and provides season long control. For best results, apply when ants are active (typically when soil temperature is greater than 60°F). **Warning:** This product is not for use on vegetable or other food crops, timber or plants grown for sale or other commercial use, or for commercial seed production, or for research purposes.

Amdro Yard Treatment Fire Ant Bait, 5 lbs.	R10	5 lbs.	17100	$25.50

Hart Short-Handled Plant Hole Digger page 203

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Bengal® Wasp & Hornet Killer
7403

Safe for use on electrical equipment up to 40,000 Volts. Features a 20´ nest drenching blast of solvent-based ingredients for maximum knockdown instantly - killing on contact! 18´´Wide shotgun spray pattern. 14 oz. Aerosol Can. **Active Ingredients:** Tetramethrin, 0.200% and Sumithrin, 0.125%.

Wasp & Hornet Killer				
1 lb.	A R10	25391		$6.75
			12+	$5.95

Bengal® Foaming Wasp & Hornet Killer
7400

Jet spray reaches 25´ for rapid knockdown killing insects on contact! The foaming action also traps insects and kills returning insects to the nest. Water-based formula. 18 oz. Aerosol. **Active Ingredient:** Permethrin 0.5%.

Foaming Wasp & Hornet Killer				
2 lbs.	A R10	25390		$5.75
			12+	$5.25

Bengal® Ultradust® 2X Fire Ant Killer
7399

Kills the Queen, kills fire ants on contact, kills the mound overnight, and kills insects for up to 8 months! Ready to use, it is faster acting than bait products, plus it is odorless and does not clump or absorb moisture. **Active ingredient:** Deltamethrin, 0.1%. 24 oz. Shaker can treats 150 mounds.

Fire Ant Killer				
2 lbs.	R10	25361		$12.75
			6+	$11.95

PT® 565 Plus Pyrethrum Insecticide Fogger
6016

Registered for use in food areas.

Effective against flies, mosquitoes, gnats, wasps, flying moths, fruit flies, roaches, spiders, waterbugs, ants, and silverfish. Contains pyrethrin. Registered for use in food areas.

PT 565 Plus 20 oz. Aerosol Can				
2 lbs.	A R10	25804		$25.95

AERVOE®

Aervoe® Hornet and Wasp Spray
6014

Shoots up to 20´.

Kill hornets, wasps, yellow jackets and other stinging insects on contact from up to 20´ away! Spray is rated to 41KV for safe use around electrical insulations. EPA registered and USDA authorized. 15 oz. Aerosol Can.

Aervoe Hornet and Wasp Spray				
1 lb.	A R10	25345		$6.95
			12+	$6.25

Bee Bopper Wasp and Hornet Spray
6013

Shoots up to 20´.

One blast knocks down and kills bees, wasps, yellow jackets, and hornets from a distance of 20 ft. Exclusive safety-directional clip-cap "trigger" prevents accidental or wrong-way shooting. Contains pyrethrin. 14 oz. Aerosol Can.

Bee Bopper Wasp and Hornet Spray				
1 lb.	A R10	25343		$6.20
			12+	$5.65

Raid® Wasp and Hornet Killer
6015

Shoots up to 22´.

Kills on contact. Also kills larvae and pupae in nests. Shoots 22 ft. Outdoor use only. Child guard cap. 14 oz. Aerosol Can.

Raid Wasp and Hornet Killer				
1 lb.	A R10	25337		$7.75
			12+	$6.95

PT® 515 Wasp Freeze Wasp & Hornet Killer
6011

Shoots up to 15´.

Instantly freezes and kills wasps, hornets, bees, yellow jackets and spiders. Shoots up to 15 ft.

PT 515 Wasp Freeze 17.5 oz. Aerosol Can				
1 lb.	A R10	25217		$13.25
			12+	$11.75

R10 Restricted. Cannot be sold in CA.
A Extra Charge if Shipped by Air. See Shipping Information for details.

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Tick Release™
6010

Loosens tick's grip and even relieves itching at the bite site!

One or two drops of this non-toxic, all organic citrus oil based tick removal liquid loosens a tick's grip by softening its attachment "cement," assuring complete removal of all body, head and mouth parts. It also relieves itching at the bite site. Combining Tick Release™ with a tick removal implement like Tick Nipper™ creates the safest and most effective tick removal system available. EPA/FDA approved.

1/5 oz. Squeeze Bottle		
1 oz.	**25257**	**$4.95**
	24+	**$4.50**

Tick Nipper™
6009

These patented tick-removing pliers are safer than fingers or tweezers!

The thin jaw edges slide safely under the tick's body, preventing disease by keeping the tick from being squeezed on removal. The powerful 20x lens in the hub ensures tick's total removal.

Tick Nipper		
1 oz.	**25245**	**$5.95**

Lighted Magnigrip™ Tweezers
8592

Ideal for the little jobs! Features a compact 4x power magnifier combined with a built-in fine point tweezer and bright LED light. Protective tweezer guard included.

Dimensions: 4.5″ x 1.375″ x 1″. **Batteries:** 3 GP395 button cell (included).

Lighted Magnigrip Tweezers		
2 oz.	**53825**	**$11.25**

New! After Bite® Insect Bite Treatment
6018

New and improved!

This pharmacist-preferred formula combines baking soda and other soothing ingredients to provide instant itch relief! Use to treat the bites and stings of mosquitoes, fleas, ticks, bees, wasps, biting flies, and other common insects. The applicator tip allows for no-mess application.

After Bite, 0.5 fl. oz.		
1 oz.	**25299**	**$4.15**
	20+	**$3.70**

StingEze® Max
7315

Provides instant relief for the worst bites and stings from mosquito bites, bee stings, ticks, chiggers and fire ants. The triple-action formula stops pain, eliminates itching and reduces swelling. Benzocaine based formula (ammonia free). Convenient sponge dauber applicator.

StingEze Max		
2 oz.	**25300**	**$4.80**
	12+	**$4.25**

Stops the Sting!™
7655

This soothing ointment provides fast relief from the bites and stings of fire ants, mosquitoes, bees, wasps, hornets, yellow jackets, jellyfish, and scorpions. Utilizing the safe, all-natural active ingredient of colloidal oatmeal, the ointment neutralizes toxins and stops the pain in minutes.

Stops the Sting!, 0.37 oz. Tube		
1 oz.	**25344**	**$4.95**
	12+	**$4.65**

Sting Relief Swabs
6626

Temporary relief from insect bites, cactus, or nettle stings. Remove swab from package, crush it, and apply it to affected area. Combines an antiseptic and an anesthetic formula (with benzocaine).

Pack of 10 swabs	1 oz.	**25365**	**$5.25**
		20+	**$4.75**

Sting Relief Wipes
6625

Temporarily relieves pain and itching due to insect bites, minor burns, sunburn, minor cuts, or abrasions. Combines an antiseptic and an anesthetic formula (with benzocaine).

Sting Relief Wipes,	1 oz.	**25177**	**$2.10**
Pack of 10 (0.5cc)		10+	**$1.65**

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New! Atwater Carey® Double Circular Net
4853

With Built-In Insect Shield®

Built-in Insect Shield® permethrin insect repellent repels mosquitoes, ticks, flies, and fleas. Sets up over sleeping bags, double bed or cots. Features include circular fiberglass tubing, high visibility mesh, and fire-resistant nylon netting.

Atwater Carey Double Circular Net	Ⓡ	15 oz.	**23461**	**$48.95**

Ⓡ Cannot be sold internationally

New! Atwater Carey® Sleep Screen Pop-up Net
4853

With Built-In Insect Shield®

This free-standing, pop-up sleep screen has Insect Shield® permethrin insect repellent built in for long-lasting, effective and convenient insect protection from mosquitoes, ticks, flies, and fleas. It sets up on the ground, over sleeping bags, double beds or cots. The snap together fiberglass poles support the high visibility, fire-resistant nylon mesh netting. **Size:** 8.8′L x 5.4′W.

Atwater Carey® Sleep Screen Pop-up Net	Ⓡ	14 oz.	**23460**	**$48.95**

New! Moskito Kakoon Hammock
4300

Providing a comfortable cocoon of protection against insects, this hammock features mesh netting supported by two fiberglass rods and a rugged guy line. The hammock offers parachute nylon construction, two storage pockets, and a two-way zipper. When the protective net is not needed, simply flip the hammock over. A built-in hanging rope makes setup easy.

Weight Limit: 250 lbs. **Overall Dimensions:** 54″W x 107″L.

Moskito Kakoon Hammock		2 lbs.	**35407**	**$54.90**

Bug Button
4188

Pin on for protection from insects!

Pin on your clothing or hat to repel mosquitoes, bees, flies, gnats, yellow jackets and many other annoying flying pests. Effective for up to 72 hours once package is opened. Pin is attached to button.

Bug Button, pack of 12	R10	3 oz.	**25324**	**$12.95**
			12+	**$11.95**

ThermaCELL® Mosquito Repellent
7900

Safe, effective area-wide mosquito protection.

ThermaCELL repels up to 98% of mosquitoes and also provides an odorless zone of protection against black flies, no-see-ums, and other biting insects. Cordless and compact, the system uses a single butane cartridge to heat an insect repellent mat that releases allethrin into the air. Undetectable to humans, allethrin is a synthetic copy of a natural repellent found in pyrethrum flowers. Each repellent mat lasts for up to four hours and provides protection for up to a 225 square foot area. For hands-free carrying of the ThermaCELL, attach the optional holster (sold separately) to your belt, backpack, or other object. The holster's pockets provide storage for extra repellent mats and butane cartridges. EPA-evaluated for safety and effectiveness. One butane cartridge and three repellent mats included.

ThermaCELL Mosquito Repellent	!	R10	12 oz.	**25338**	**$24.75**
12-Hour Refill Kit – Includes 1 butane cartridge and 3 repellent mats	!	R10	3 oz.	**25352**	**$6.75**
48-Hour Refill Kit – Includes 4 butane cartridges and 12 repellent mats	!	R10	7 oz.	**25353**	**$20.99**
Butane Cartridge Refill, pack of 2	!	R10	3 oz.	**25355**	**$6.80**
Accessory Holster			3 oz.	**25340**	**$12.95**

Note: Cannot ship by domestic air.

New! ThermaCELL® Outdoor Lantern
7900

This versatile lantern provides a convenient source of light while also effectively repelling biting insects such as mosquitoes and black flies! A butane cartridge heats an insect repellent mat to release allethrin into the air and provide a 15′ x 15′ odorless zone of protection. Allethrin is a synthetic copy of a natural repellent found in pyrethrum flowers and is undetectable to humans. In addition, 8 LEDs provide your choice of low or high illumination, and the lantern is powered by 4 AA batteries (not included). Lightweight and portable, the lantern features shatterproof side panels and an easy-grip handle. A butane cartridge (lasts up to 12 hours) and 3 insect repellent mats (each lasting up to 4 hours) are included. **Dimensions:** 7.5″H x 5″W.

ThermaCELL Outdoor Lantern	!	R10	2 lbs.	**25430**	**$29.95**

Note: Cannot ship by domestic air.

R10 Restricted. Cannot be sold in CA.
! Extra Charge if Shipped by International Air.

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New!
Sunsect® Sunscreen & Insect Repellent
4933

SPF 15 and 20% DEET

Sunsect's patented formula combines a scent-free, water-resistant, sweat-resistant sunscreen with the power of DEET. The PABA-free, SPF 15 sunscreen protects against UVA and UVB rays while 20% DEET effectively repels mosquitoes, ticks, chiggers, deer flies, stable flies, black flies, and fleas. In addition, Sunset moisturizes your skin and is not sticky or greasy.

2 oz. Tube			
1 oz.	R10	25421	$5.95
		12+	$5.45
4 oz. Tube			
5 oz.	R10	25422	$9.95
		12+	$9.35

Maxi-Deet™ Insect Repellent
5990

100% DEET
Low-Odor Formula

Spray on exposed skin surfaces and clothing to provide maximum protection against mosquitoes, ticks, chiggers, gnats, black flies, stable flies, and fleas.

Maxi-Deet 2 oz. Pump Spray			
3 oz.	R13	25385	$7.45
		12+	$6.70

TEC LABS®

Tec-Labs® Ten-Hour Insect Repellent
5999

100% DEET

Repels mosquitoes, ticks, fleas, chiggers, horseflies, no-see-ums, sand fleas, and more.

Tec-Labs 2 oz. Pump Spray			
3 oz.	R13	25327	$5.95
		12+	$5.50

New!
Cutter® Backwoods Insect Repellent
5994

25% DEET

Repels mosquitoes for up to 10 hours. Sweat-resistant formula.

6 oz. Aerosol Spray, 25% DEET			
1 lb.	A R13	25475	$6.40
		12+	$5.75

Coleman®

Coleman® 100 Max Insect Repellent
4601

100% DEET

100% DEET formula provides the longest-lasting protection available - up to 10 hours! Repels mosquitoes that may carry diseases such as West Nile virus, dengue fever, and encephalitis. Also repels biting flies, gnats, chiggers, ticks, and fleas. Ideal for use in areas with heavy insect activity.

1 oz. Pump			
8 oz.	R13	25268	$7.25
		12+	$6.50
4 oz. Pump			
1 lb.	R13	25269	$12.95
		12+	$11.25

Coleman®

Coleman® 40% DEET Insect Repellent
4600

Provides over 8 hours of protection against mosquitoes that may carry diseases such as West Nile virus, dengue fever, and encephalitis. Also effective against biting flies, gnats, chiggers, ticks, and fleas. Unscented, non-greasy, perspiration-resistant formula. Rust-resistant aluminum can with twist-locking cap sprays at any angle.

Coleman 40% DEET, 6 oz. Aerosol			
1 lb.	A R13	25274	$8.60
		12+	$7.60

Repel® Insect Repellent
5998

100% DEET

Maximum insect protection! 100% DEET formula provides eight- to ten-hour protection.

1 oz. Pump Spray (100% DEET)			
3 oz.	R13	25249	$6.50
		12+	$5.90

Deep Woods OFF!® Fly & Mosquito Repellent
5993

Proven DEET formula repels mosquitoes, flies, ticks and chiggers for up to 10 hours of protection.

6 oz. Aerosol, 25% DEET			
9 oz.	A R13	25323	$8.50
		12+	$7.95
		24+	$7.50
1 oz. Pump, 100% DEET			
3 oz.	R13	25321	$8.75
		12+	$7.95
		24+	$7.65
Box of 12 Towelettes, 25% DEET			
2 oz.	R13	25319	$7.25
		12+	$6.75

OFF! Deep Woods DRY Insect Repellent
5993

25% DEET

Sprays on dry for long lasting protection from mosquitoes, ticks, biting flies, gnats, and chiggers. Also repels mosquitoes that may carry the West Nile virus. The spray is not oily or greasy and has no CFC's.

4 oz. Aerosol, 25% DEET			
7 oz.	A R13	25176	$5.75
		12+	$5.35

R13 Restricted. Cannot be sold in CA, NY.
R10 Restricted. Cannot be sold in CA.
A Extra Charge if Shipped by Air.

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Bug-X FREE™ Insect Repellent Towelettes

6003

DEET-Free

Made with the natural ingredient "Geraniol" (derived from geraniums), this DEET-free, all-natural repellent is effective against mosquitoes, ticks, chiggers, fleas, gnats, red bugs, no-see-ums, sand fleas, biting flies, stable flies, and black flies. Easy to carry, the towelette is packaged in a 2″ x 3″ pouch which opens to 8″ x 8″ for full coverage.

Fish Bowl of 50 1 lb.	R10	25230		$39.50
			3+	$37.50

Bug-X Insect Repellent Towelettes

30% DEET

5″ x 8″ towelette in a 2″ x 3″ pouch.

Box of 50 2 lbs.	R13	25229		$44.95
			3+	$40.95

Natrapel® Plus Insect Repellent

5996

All natural, contains no DEET.

Picaridin formulation repels mosquitoes, blackflies, chiggers, gnats, fleas, and biting midges for up to 8 hours. Approved by EPA and Good Housekeeping.

1 oz. Pump Spray Bottle 2 oz.	R10	25342		$4.10
			12+	$3.75

New! 3.4 oz. Pump Spray Bottle, This 3.4 oz. pump spray is the largest bottle available that meets TSA standards for carry-on luggage.

5 oz.	R10	25298		$6.95
			12+	$6.40
6 oz. Eco Aerosol Spray 8 oz.	A R10	25346		$7.95
			12+	$7.30
12-pack Wipes 2 oz.	R10	25306		$5.95
			12+	$5.50

Permethrin Tick Repellent

6601

Protects clothing and equipment through six washes.

100% protection against biting insects when used with a Deet-containing skin repellent. Biodegradable, odorless, nonstaining, nonflammable, and nonirritating to skin. One 6 oz. can of spray treats 1 complete set of clothing (shirt & trousers = 1 set) or 1 mosquito net, and one 12 oz. pump spray treats 2 sets of clothing. Retreat after six washes.

6 oz. Aerosol 10 oz.	A R10	25231		$8.95
			12+	$7.95
12 oz. Pump 14 oz.	R10	25232		$13.25
			12+	$12.25
24 oz. Trigger 2 lbs.	R10	25252		$16.25
			12+	$14.95

SPF 30 Bonding Base Formula Sunblock

6001

SPF 30

This sports formula sunblock bonds to the upper layers of your skin without a greasy or sticky feeling and provides all-day waterproof protection. The SPF 30 sunblock allows your skin to breathe and sweat normally and will not run.

4 oz. SPF 30 Bonding Base Sunblock 5 oz.		25386		$5.95
			12+	$5.30
8 oz. SPF 30 Bonding Base Sunblock 8 oz.		25387		$8.50
			12+	$7.65

Cutter® Insect Repellent with Aloe & Vitamin E

5995

6.65% DEET

Contains skin moisturizers and naturally soothing Aloe Vera. Repels mosquitoes, ticks, fleas, biting flies, gnats, and chiggers. Clean, fresh scent.

6 oz. Pump Spray, with Aloe & Vitamin E 8 oz.	R10	25471		$6.95
			12+	$6.10

Repel® "Lemon Eucalyptus" Insect Repellent

7110

All natural insect repellent!

Active ingredient is a derivative of the Lemon Eucalyptus plant. Testing has shown that this formula is as effective as 20% DEET-based products. Repels chiggers, fleas, mosquitoes, ticks, and sand flies.

4 oz. Spray 5 oz.	R10	25289		$7.10
			12+	$6.35

Repel® Permethrin Clothing and Gear Insect Repellent*

5997

No odor, non greasy.

Repels and kills ticks, chiggers, mosquitoes, and mites. Do not apply to clothing while it is being worn. Clothing should be treated and allowed to dry for two to four hours (depending on humidity) before being worn. **Active ingredient:** permethrin.

6.5 oz. Aerosol Spray 10 oz.	A R10	25221		$6.95
			12+	$6.10

*Cannot ship to Mexico or Canada.

Coleman® Permethrin Gear & Clothing Insect Treatment

4602

Use to treat clothing, shoes, nets, gear, and tents. Repels and kills mosquitoes, ticks, and mites. Lasts up to two weeks through several washes. Rust-resistant aluminum can features a twist-locking cap and sprays at any angle. One 6 oz. can treats one complete outfit (shirt, trousers, and socks).

6 oz. Aerosol 1 lb.	A R10	25275		$7.70
			12+	$6.85

A Extra Charge if Shipped by Air. See Shipping Information for details.
R10 Restricted. Cannot be sold in CA.
R13 Restricted. Cannot be sold in CA, NY.

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TEC LABS® Made in USA

Tecnu® First Aid Gel
7941

In addition to killing a wide spectrum of germs and bacteria, this antiseptic gel contains Lidocaine to provide fast relief from the pain of minor cuts, burns, and bug bites. The antibiotic-free formula is ideal for use by people who are allergic to common topical antibiotic ointments and creams. Made in the USA.

2 oz. Tube	3 oz.	**25382**	**$8.95**
		24+	**$8.25**
144 Count Dispenser, 1/16 oz. Packets	16 oz.	**25383**	**$34.95**
		6+	**$31.95**

TEC LABS® Made in USA

Tecnu® Rash Relief™ Medicated Anti-Itch Spray
8547

Fast, effective relief in a convenient spray!

Provides relief from the painful itching of poison ivy, oak, and sumac rash while also encouraging healing and promoting the drying of oozing fluid from blisters. This non-aerosol spray allows easy application of the homeopathic formula without touching your skin and causing further irritation and discomfort. Made in the USA.

6 oz. Pump Spray	8 oz.	**25373**	**$12.00**
		24+	**$10.00**

TEC LABS® Made in USA

Tecnu® Extreme® Poison Ivy Scrub
4570

Prevents the rash from spreading and provides fast itch relief and healing.

Tecnu Extreme contains micro-fine scrubbing beads to effectively remove urushiol from the skin and active ingredient Grindelia to immediately relieve itching and speed the healing process. The thick, creamy gel can be used before the rash starts as well as after a rash appears to relieve symptoms and stop the rash from spreading. Made in the USA.

4 oz. Tube	5 oz.	**25308**	**$11.95**
		24+	**$9.75**
New! 0.5 oz. Single-Use Packets, 50-Count Dispenser	2 lbs.	**25442**	**$58.50**
		6+	**$53.95**

TEC LABS®

CortiCool Hydrocortisone
8619

1% Hydrocortisone Gel

Delivers immediate menthol cooling and soothing sensation for instant relief of burning, itching rashes. Use to treat poison ivy and oak, eczema, psoriasis, insect bites, and other minor skin irritations.

CortiCool Gel, 1.5 oz. Tube	3 oz.	**25379**	**$5.75**
		12+	**$5.25**
CortiCool Gel, 144 Single Packs	13 oz.	**25380**	**$22.95**

Forestry Suppliers First Aid Kits
page 654

OAK-N-IVY® BRAND

Calagel™ Clear Medicated Gel
6026

Fast acting, long lasting itch relief that dries clear, not pink!

This cooling, medicated gel relieves all five major poison oak and ivy symptoms. The first clear, antihistamine formulation that relieves all major symptoms of poison plant dermatitis, insect bites and stings, minor sunburn, and other skin irritations while leaving an invisible anti-itch shield. Combines the itch relief and swelling reduction of an analgesic/antihistamine, the pain relieving action of a topical anesthetic, the drying action of an astringent, and an antiseptic to reduce the chance of secondary infection.

6 oz. Bottle	7 oz.	**25359**	**$5.75**
		12+	**$5.25**
Dispenser Box of 144 Single-Use 1/16 oz. Packets	1 lb.	**25374**	**$23.25**

OAK-N-IVY® BRAND Made in USA

Tecnu® Cleanser
6024

Removes poison oils and prevents irritant from spreading.

This skin cleanser removes the poison oils of poison oak, ivy, and sumac from your skin – preventing an irritating rash in most cases. To use, wash skin thoroughly with full strength cleanser as soon as possible after suspected exposure. Rinse with cold water! If rash has started, cleanser stops itching and promotes natural healing. Available in bottles or convenient individual packets. Made in the USA.

4 oz. Bottle	5 oz.	**25329**	**$5.50**
		12+	**$4.75**
12 oz. Bottle	13 oz.	**25330**	**$10.50**
		12+	**$9.50**
32 oz. Bottle	3 lbs.	**25328**	**$17.25**
		12+	**$14.50**
Box of 50 0.5 oz. Packets	2 lbs.	**25333**	**$31.50**
		6+	**$29.95**

[search engine powered by magazooms.com]

Oral Ivy®
6025

Natural protection from the irritation of poison ivy, oak, and sumac.

Taken as directed, Oral Ivy® helps the body safely and naturally fight off ivy, oak, or sumac poisoning. Taken orally, you can protect yourself from direct and indirect ivy poisoning. Just add 3 to 5 drops of Oral Ivy to 1/4 glass of water or juice and drink it daily starting 1 or 2 weeks before exposure and continuing daily intake throughout the poison ivy season.

Oral Ivy, 1 oz. Bottle	3 oz.	**25314**	**$14.25**
		12+	**$12.25**

Note: Oral Ivy® is an over-the-counter homeopathic medicine extracted with alcohol from poison ivy leaves (Rhus Tox). The manufacturing process is in accordance with the principles of homeopathy as set forth in the Homeopathic Pharmacopea of the United States, the acknowledged authority on homeopathic medicines.

IvyX™ Pre-Contact Solution
4033

Protection from poison oak, ivy, and sumac.

Use before you go into the woods for up to 8 hours of protection! IvyX provides an invisible, non-greasy, dry film that protects skin from contact with poison oak, ivy, and sumac oils. Available in three convenient sizes.

4 oz. Pre-Contact Solution	5 oz.	**25366**	**$4.95**
		12+	**$4.50**
1 Gallon Pre-Contact Solution	8 lbs.	**25367**	**$61.95**
Pre-Contact Pouches, Pack of 25	8 oz.	**25368**	**$14.75**
		12+	**$13.20**

Professional Outdoor Skin Protection Kit
2500

Portable and versatile!

This compact kit features a variety of individually packaged skin protection products. **Contents include:** 3 SunX Towelettes, 1 SunX Lip Balm, 2 IvyX Pre-Contact Barrier Towelettes, 2 IvyX Post-Contact Cleanser Towelettes, 2 BugX 30 Insect Repellent Towelettes, 2 BurnX Gel Pouches, 1 StingX Pain Relief Pad, 2 Hand Sanitizer Gel Pouches, and 1 Anti-Itch Gel Pouch. Packaged in a durable case with a heavy duty zipper. **Kit dimensions:** 6-1/2″H x 5-1/4″W x 1″D (closed).

Professional Outdoor Skin Protection Kit	7 oz.	**25350**	**$13.25**
		10+	**$11.25**

Anti-Itch Dual Action Gel Pouches
3793

This extra strength gel contains diphenhydramine hydrochloride and zinc acetate to effectively relieve the itching and pain associated with insect bites, minor skin irritations, and rashes due to poison ivy, oak, and sumac. The gel stops itching at the source by blocking the histamine causing the itch of poison ivy, oak, and sumac. Dispenser of 25 pouches.

Anti-Itch Dual Action Gel Pouches	2 oz.	**25370**	**$5.75**
		8+	**$5.40**

IvyX™ Post Contact Skin Cleansers
3791

Effective in assisting in the removal of poisonous plant oils (Urushiol) found in Poison Ivy, Poison Oak, and Poison Sumac. Designed to be "wetter than water", these cleansers help remove the plant oils before they have time to cause the uncomfortable rash, blisters and itching associated with poisonous plants.

Towelettes - 8″x 5-1/2″, Pk. of 25	8 oz.	**25437**	**$12.25**
		3+	**$11.25**
Lotion - 4 oz. Bottle	5 oz.	**25438**	**$2.50**
		3+	**$2.30**
Lotion - Gallon Jug	9 lbs.	**25420**	**$42.75**
		3+	**$38.75**
Pump for Gallon Jug	2 oz.	**25419**	**$8.10**
		3+	**$7.55**
Fish Bowl 50 Towelettes	2 lbs.	**25369**	**$25.50**
		3+	**$23.75**

Sun-X SPF 30+ Broad Spectrum Sunscreen
6002

This non-greasy, high SPF 30+ broad spectrum sunscreen blocks out 94.5% of the sun's damaging rays and exceeds the new FDA monograph. Reduces the risk of skin cancer, reduces the risk of early skin aging, and helps prevent sunburn. PABA-free and perspiration-resistant, yet allows skin to breathe and release heat during physical activity.

4 oz. Bottle	5 oz.	**25311**	**$4.50**
		12+	**$4.05**
New! 16 oz. Bottle	1 lb.	**25751**	**$12.95**
New! 32 oz. Bottle	2 lbs.	**25752**	**$24.50**
New! Pump for 32 oz. Bottle	8 oz.	**25754**	**$2.10**
New! Gallon Jug	10 lbs.	**25753**	**$100.95**
Pump for Gallon Jug	2 oz.	**25419**	**$8.10**
		3+	**$7.55**
1/4 oz. Single-Use Pouch, Fish Bowl of 50, Each 1/4 oz. pouch contains enough sunscreen to cover the average adult's neck, face, arms, and legs.	1 lb.	**25301**	**$33.95**
		4+	**$30.95**

Easy Access Bandages™
page 657

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True North® Trauma Bag page 138

Emergency Thermal Blanket
6381

Lightweight blanket weighs just 3 ounces!

Retains up to 80% of body heat in emergency treatment of shock and severe cold. Opens to 7′ x 4-2/3′, folds to pocket size. Lightweight, just 3 oz. Approved by Boy Scouts of America and a variety of military, rescue and police organizations. Conforms to the Flammable Fabrics Act, but will burn if ignited. Silver on both sides.

Emergency Thermal Blanket 3 oz.	**93331**	**$3.75**
	10+	**$2.95**

All-Weather Blanket
3624

A by-product of super insulation materials developed for NASA!

This blanket features metalized construction that reflects up to 80% of your body heat. Keeps you warm and dry, even in sub-zero temperatures. Completely waterproof. Strong and durable with reinforced binding and rust-proof grommets in the corners. Under normal use, it will not crack, chip, or peel. Washes clean with a damp sponge. Conforms to the Flammable Fabrics Act, but will burn if ignited. Weighs 12 oz. Opens to 7′ x 5′, folds to 7″ x 10″.

Red 13 oz.	**93325**	**$13.95**
	10+	**$12.25**

New! PhysiciansCare® School and Office Emergency Preparedness Kit
4914

A must-have during emergencies or disasters, this 24-person kit includes critical first aid and survival supplies. Contents: aluminized rescue blanket, 24 packets of purified water, 24 high-calorie food bars, crank radio/flashlight, whistle, scissors, tweezers, first aid guide, 16 1″ x 3″ adhesive bandages, 5″ x 9″ trauma pad, first aid tape, 5 4″ x 4″ gauze pads, 4″ conforming gauze roll, 2 pairs nitrile gloves, 4 sterile eye pads, 30 alcohol wipes, 6 burn cream packets, 6 triple antibiotic ointment packets, 4 oz. eyewash, sterile eye cup, 4″ elastic wrap, instant cold pack, triangular bandage, 4 knuckle bandages, and 4 fingertip bandages. The included zippered storage bag features a wall hanging strap, carrying handle, and padded shoulder strap. For added convenience, essential first aid supplies are stored in a removable zippered pouch. **Dimensions:** 10″ x 10″ x 14.5″.

PhysiciansCare School and Office Emergency Preparedness Kit	15 lbs.	**25472**	**$114.25**
		3+	**$105.95**

Note: Food bars and water packets have a five-year shelf life.

Soft-Sided First Aid Kit Plus Emergency Preparedness
4613

Contains 105 Pieces

Soft-sided storage pouch is great for travel and features see-through pockets for quick and easy access of contents. This 105-piece kit contains: 10 alcohol pads, 6 sting relief wipes, 10 finger splints, 2 antibiotic packets, 2 burn cream packets, 20 adhesive plastic bandages (3/4″ x 3″), 25 junior plastic bandages, extra-large bandage, 1 butterfly closure, 4 gauze pads (2″ x 2″), 1 first aid tape roll (1/2″ x 5 yds.), 2 latex gloves, 1 first aid handbook, 1 registration card, 1 survival blanket, 1 whistle, 1 light stick, 1 rain poncho, 1 face mask, and 4 hand sanitizer packets.

Soft-Sided First Aid Kit Plus Emergency Preparedness	1 lb.	**25470**	**$14.75**
		10+	**$13.75**

Emergency Eyewash page 594

JUSTRITE®

Justrite® Emergency Preparedness Cabinets
7983

Be ready during hurricanes, tornadoes, earthquakes, or terrorism attacks with these Emergency Preparedness Cabinets! Features include a fire-resistant design with durable powder paint "emergency orange" finish for high visibility; GloAlert™ glow-in-the-dark labels for fast location during power outages; spacious design with four adjustable shelves; high quality 3-pt. stainless steel bullet latching system and smooth opening/closing piano hinge doors; U-Loc™ handle with 2 keys and 4 adjustable leveling feet; and the longlasting design is backed by a 10-year limited warranty from the manufacturer. Design tested in accordance with ASTM & NFPA time temperature curves. **Dimensions:** 65″ x 43″ x 18″.

Justrite Emergency Preparedness Cabinet	F	315 lbs.	**85390**	**$1061.00**

F Ships Motor Freight. See Shipping Information for details.

New! Camillus First Aid 3-Day Survival Kit
4913

In addition to essential first aid supplies, this kit includes enough food and water to meet the survival needs of one person for three days. Contents: first aid guide, 15 1″ x 3″ bandages, 2 alcohol wipes, 2 burn cream packets, 6 antiseptic wipes, 2 sting relief pads, 4 2″ x 2″ gauze pads, 2 eye pads, 2 knuckle bandages, 1 fingertip bandage, 1/2″ first aid tape, 1 extra-large bandage, 1 butterfly wound closure, 4 triple antibiotic ointments, 1 waterproof bandage, 2 acetaminophen packets, 2 antacid packets, 2 ibuprofen packets, 1 packet of food (6 bars), 6 4 oz. purified drinking water packets, 1 light stick, 1 whistle, 1 rain poncho, 1 survival blanket, 1 flashlight, 2 batteries, 2 sets of hand warmers, 1 metal tweezers, and 1 tourniquet. All of the items store conveniently in the included rugged tactical bag with MOLLE straps. **Dimensions:** 5″ x 6″ x 14″.

Camillus First Aid 3-Day Survival Kit	5 lbs.	**25474**	**$37.75**
		3+	**$34.75**

Note: Food bars and water packets have a five-year shelf life.

Emergency Preparedness Cabinet with PowerPort™

Also includes an installed electrical pass-through connection and comes with external power cord and 10 amp rated, 6-outlet power strip for charging walkie talkies, flashlights, etc., inside the cabinet.

Justrite Emergency Preparedness Cabinet with PowerPort™	F	315 lbs.	**85391**	**$1208.00**

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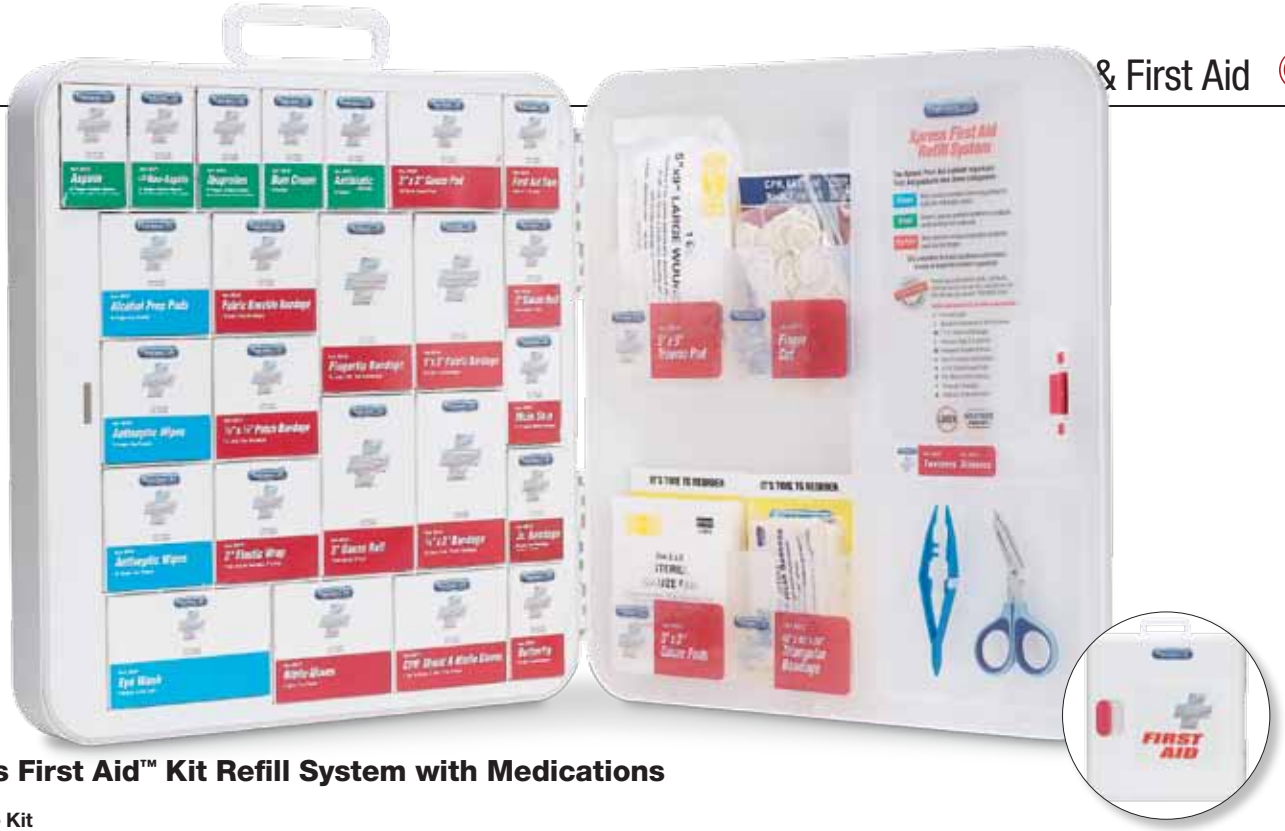

Xpress First Aid™ Kit Refill System with Medications

4614

370-Piece Kit

This kit makes maintaining your first aid supplies effortless! The unique color coded refills are easy to manage by designated clean, treat and protect packaging. Clean contents include 40 alcohol prep pads, 30 antiseptic wipes, and 2 - 0.5 oz. bottles of eye wash. The Treat contents include 20 Aspirin, 20 extra-strength Non-Aspirin, 20 Ibuprofen, 10 burn cream packets, and 10 antibiotic ointment packets. And the Protect contents include 10 - 2″x 2″ gauze pads, 1 Roll 1/2″x 10 yards First Aid Tape, 1 non-sterile 2″rolled gauze, 1 non-sterile 3″rolled gauze, 10 Latex-free fabric knuckle bandages, 10 Latex-free fingertip bandages, 50 - 1″x 3″Latex-free fabric bandages, 10 - 1/2″x 1/2″ Latex-free patch bandages, 1 non-sterile 2″x 5 yards elastic wrap, 10 - 2″square blister moleskin bandages, 50 - 3/4″x 3″Latex-free plastic bandages, 20 - 3/8″x 1-3/4″Latex-free junior bandages, 4 Latex-free nitrile gloves, 1 CPR Shield with 2 nitrile gloves, 10 Latex-free butterfly bandages, 1 - 5″x 9″trauma pad, 10 - 3″ x 3″gauze pads, 1 - 40″x 40″x 56″triangular bandage, 50 finger cots, 1 pair of tweezers, and 1 pair of scissors. Each of the essential first aid supplies utilizes a reorder card system for easily keeping supplies in stock. The hard plastic case features an attached handle for mobility or is wall mountable with easy install bracket system. Exceeds ANSI Z308.1 2009 and OSHA Regulation 1910.151b.

Xpress First Aid Kit Refill System with Medications	6 lbs.	**25476**	**$119.95**

Xpress First Aid™ Kit Refills

4614

First Aid Tape, Refill #90265 - 1/2″x 10 yards. Box of 1.	8 oz.	**25477**	**$3.90**
2″Rolled Gauze, Refill #90262 - Non-sterile, 2″W rolled gauze is 100% Latex free. Box of 1.	8 oz.	**25478**	**$3.90**
3" Rolled Gauze, Refill #90263 - Non-sterile, 3″W rolled gauze is 100% Latex free. Box of 1.	8 oz.	**25479**	**$3.90**
Triangular Bandage, Refill #90275 - Cotton muslin gauze bandage with 2 safety pins. Measures 40″x 40″x 56″. Bag of 1.	8 oz.	**25480**	**$3.90**
Trauma Pad, Refill #90264 - 5″x 9″Large wound pad. Bag of 1.	8 oz.	**25481**	**$3.90**
Alcohol Prep Pads, Refill #90237 - Active Ingredients: Isopropyl Alchohol 70%. 40 Packets per box.	8 oz.	**25482**	**$3.90**
Aspirin, Refill #90220 - Contains 10 packets of 2 - 200 mg tablets.	8 oz.	**25483**	**$3.90**
1″x 3″Fabric Bandages, Refill #90240 - 50 Sterile bandages with non-stick pad. 100% Latex free.	8 oz.	**25484**	**$3.90**
1/2″x 1/2″Patch Bandages, Refill #90247 - 10 Sterile bandages with non-stick pad. 100% Latex free.	8 oz.	**25485**	**$3.90**
3/4″x 3″Plastic Bandages, Refill #90242 - 50 Sterile bandages with non-stick pad. 100% Latex free.	8 oz.	**25486**	**$3.90**
3/8″x 1.75″Junior Bandages, Refill #90248 - 20 Plastic, sterile bandages with non-stick pad. 100% Latex free.	8 oz.	**25487**	**$3.90**
Butterfly Bandages, Refill #90252 - 10 Plastic, sterile bandages with non-stick pad. 100% Latex free.	8 oz.	**25488**	**$3.90**
Fingertip Bandages, Refill #90244 - 10 Fabric, sterile bandages with non-stick pad. 100% Latex free.	8 oz.	**25489**	**$3.90**
Knuckle Bandages, Refill #90245 - 10 Fabric, sterile bandages with non-stick pad. 100% Latex free.	8 oz.	**25490**	**$3.90**
Antiseptic Wipes, Refill #90234 - Active Ingredients: Benzalkonium Chloride, 0.13% w/v. 10 Wipes per box.	8 oz.	**25491**	**$3.90**
CPR Shield and Gloves, Refill #90273 - Package contains 1 sterile CPR mask and 2 latex-free Nitrile gloves.	8 oz.	**25492**	**$3.90**
Eyewash, Refill #90281 - Active Ingredients: Sterile Water, 99%. Box of two 0.5 oz. bottles.	8 oz.	**25493**	**$3.90**
Finger Cots, Refill #90271 - Bag of 50.	8 oz.	**25494**	**$3.90**
First Aid Tweezers, Refill #90285 - Plastic. Color: Blue. One pair.	8 oz.	**25495**	**$3.90**
First Aid/Burn Cream, Refill #90230 - Box of 10 single-use packets. Contains benzalkonium chloride (BZK); lidocaine.	8 oz.	**25496**	**$3.90**
2″x 2″Gauze Pads, Refill #90260 - Box of 10 sterile pads. 100% Latex free.	8 oz.	**25497**	**$3.90**
3″x 3″Gauze Pads, Refill #90261 - Box of 10 sterile pads. 100% Latex free.	8 oz.	**25498**	**$3.90**
Ibuprofen, Refill #90222 - Contains 10 tamper-evident packets of two 500 mg tablets each.	8 oz.	**25499**	**$3.90**
Mole Skin Bandages, Refill #90266 - 2″x 2″. 100% Latex free. Box of 10 bandages.	8 oz.	**25500**	**$3.90**
Nitrile Gloves, Refill #90272 - Box of 4 Nitrile gloves. Latex free.	1 oz.	**25501**	**$3.90**
Extra-Strength Non-Aspirin Tablets, Refill #90221 - Contains 10 tamper-evident packets of two 500 mg tablets each.	1 oz.	**25502**	**$3.90**
Triple Antibiotic Ointment, Refill #90231 - Box of 10 single-use packets. Contains bacitracin zinc; neomycin sulfate; polymyxin B sulfate.	1 oz.	**25503**	**$3.90**
Elastic Wrap, Refill #90274 - 2″x 5 yards. Box of 1 Roll.	1 oz.	**25504**	**$3.90**

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25222

25228

Forestry Suppliers Industrial First Aid Kits
7286

Neat, orderly interior packaging makes contents easy to locate and use! All contents are housed in a weatherproof, plastic storage case. Contents of all kits meet or exceed requirements of ANSI Standard Z308.1-2003.

10-Unit Standard First Aid Kit

Contents: 16 Adhesive Strips, 1″ x 3″; 4 Gauze Pads, 3″; 1 Lamino Pad, 8″ x 10″; 1 Adhesive Tape, 1/2″ x 5 yds.; 1 Non-Sterile Stretch Gauze, 4″ x 5 yds.; 1 Triangular Bandage 40″; 10 Antiseptic Towelettes; 6 First Aid Burn Cream Packets; 4 Latex Exam Gloves, (ea.); 1 Scissors; 1 Forceps; and 1 First Aid Instructions. **Dimensions:** 7-1/2″L x 4-1/2″W x 2-3/4″H.

10-Unit Standard First Aid Kit	12 oz.	**25223**	**$18.95**
		12+	**$17.50**

25-Unit Standard First Aid Kit

Contents: 100 Adhesive Strips, 1″ x 3″; 5 Gauze Pads, 4″; 1 Lamino Pad, 8″ x 10″; 1 Adhesive Tape, 1/2″ x 5 yds.; 1 Non-Sterile Stretch Gauze, 4″ x 5 yds.; 1 Triangular Bandage 40″; 30 Antiseptic Wipes; 6 First Aid Burn Cream Packets; 1 Instant Cold Pack; 4 Latex Exam Gloves, (ea.); 1 Scissors; 1 Forceps; and 1 First Aid Instructions. **Dimensions:** 9-1/2″L x 6-1/2″W x 2-3/4″H.

25-Unit Standard First Aid Kit	1 lb.	**25222**	**$21.50**
		12+	**$19.95**

10-Unit Plus First Aid Kit

Contents: 16 Adhesive Strips, 1″ x 3″; 4 Gauze Pads, 3″; 1 Lamino Pad, 5″ x 9″; 1 Adhesive Tape, 1/2″ x 5 yds.; 1 Non-Sterile Stretch Gauze, 4″ x 5 yds.; 1 Triangular Bandage 40″; 30 Antiseptic Wipes; 6 First Aid Burn Cream Packets; 1 Eye Flush, 1 oz.; 2 Sterile Eye Pads; 4 Latex Exam Gloves, (ea.); 1 Scissors; 1 Forceps; and 1 First Aid Instructions. **Dimensions:** 7-1/2″L x 4-1/2″W x 2-3/4″H.

10-Unit Plus First Aid Kit	14 oz.	**25224**	**$22.75**
		12+	**$20.95**

25-Unit Plus First Aid Kit

Contents: 100 Adhesive Strips, 1″ x 3″; 5 Gauze Pads, 4″; 1 Lamino Pad, 5″ x 9″; 1 Adhesive Tape, 1/2″ x 5 yds.; 1 Non-Sterile Stretch Gauze, 4″ x 5 yds.; 1 Triangular Bandage 40″; 30 Antiseptic Wipes; 6 First Aid Burn Cream Packets; 12 Aspirin Tablets; 1 Eye Flush Bottle; 2 Sterile Eye Pads; 2 Adhesive Eye Strips; 1 Instant Cold Pack; 4 Latex Exam Gloves, (ea.); 1 Scissors; 1 Forceps; and 1 First Aid Instructions. **Dimensions:** 9-1/2″L x 6-1/2″W x 2-3/4″H.

25-Unit Plus First Aid Kit	2 lbs.	**25225**	**$29.50**
		6+	**$26.95**

50-Unit Plus First Aid Kit

Contents: 100 Adhesive Strips, 1″ x 3″; 10 Gauze Pads, 4″; 2 Lamino Pad, 5″ x 9″; 2 Adhesive Tape, 1/2″ x 5 yds.; 2 Non-Sterile Stretch Gauze, 4″ x 5 yds.; 1 Elastic Bandage, 2″ x 5 yds.; 2 Triangular Bandages, 40″; 60 Antiseptic Wipes; 12 First Aid Burn Cream Packets; 24 Aspirin Tablets; 1 Eye Flush Bottle, 4 oz.; 4 Sterile Eye Pads; 4 sets Adhesive Eye Strips; 1 Sterile Eye Cup; 2 Instant Cold Packs; 4 Latex Exam Gloves, (ea.); 1 Scissors; 1 Forceps; and 1 First Aid Instructions. **Dimensions:** 13-1/2″L x 9-1/2″W x 2-3/4″H.

50-Unit Plus First Aid Kit	3 lbs.	**25228**	**$34.95**
		6+	**$31.75**

Forestry Suppliers Logger's First Aid Kits
3612

OSHA Mandated Kits

These kits contain first aid supplies adequate for small logging work sites consisting of approximately two or three employees. **Each kit includes the following:** ten 4″ x 4″ gauze pads; two 8″ x 10″ gauze compresses; 16 adhesive bandages; two 2″ wide rolls of gauze bandage; two triangular bandages; 10 antiseptic towelettes; scissors; two rescue blankets; tweezers; one roll of adhesive tape; latex gloves; one CPR mask; two elastic bandages; one tourniquet; 12 diphenhydramine Caps; splint; a writing pad and marker; and complete instructions for requesting emergency assistance. Kits are available in either a heavy-duty, metal case or an economical, plastic case. Both meet OSHA Standard 1910.266 Appendix A and USFS specifications.

Heavy-duty Metal Case	3 lbs.	**25258**	**$47.95**
		4+	**$45.50**
Economy Plastic Case	2 lbs.	**25259**	**$41.50**
		4+	**$38.50**

First Aid Travel Kit
3616

Compact kit goes wherever you go!

Compact kit includes 8 premium fabric adhesive strips, 2 premium fabric extra-large adhesive strips, 2 premium fabric knuckle bandages, 2 premium fabric fingertip bandages, 6 first aid/burn cream packets, 6 antiseptic wipes, 3 sting relief wipes, 6 extra strength non-aspirin tablets, 6 Ibuprofen tablets, 2 antacid tablets, 2 nasal decongestant tablets, and 2 motion sickness tablets. Contents are stored in a white plastic case. 5-1/4″L x 3-1/2″W x 1-3/4″H.

First Aid Travel Kit	5 oz.	**25010**	**$10.30**
		10+	**$8.80**

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Forestry Suppliers Vehicle First Aid Kits
3619

These first aid kits can treat a wider range of injuries than unitized kits. To help you safely remove foreign debris from a wound, each kit also features a pair of forceps and latex gloves. Other items such as burn cream, cold pacs, and antiseptic towelettes are color-coded and sealed in plastic wrap. The indoor/outdoor cases feature neoprene seals which keep dust and rain away from the contents. Cases are constructed of 20-gauge steel and have built-in wall mounts, a carrying handle, and a first aid instruction chart affixed on the door.

Forestry Suppliers Vehicle First Aid Kit, 10-Person Indoor/ Outdoor Kit, Dimensions: 7-1/2″L x 4-1/2″W x 2-3/4″H.	2 lbs.	**25290** 12+	**$34.75** **$30.25**
Forestry Suppliers Vehicle First Aid Kit, 25-Person Indoor/ Outdoor Kit, Dimensions: 9-1/2″L x 6-1/2″W x 2-3/4″H.	3 lbs.	**25292** 12+	**$38.25** **$35.25**

Supplemental First Aid Supplies

Providone Iodine Swabs, Box of 10	1 oz.	**25243** 10+	**$4.80** **$4.45**
Triple Antibiotic Ointment, For Cleaned Wound, Box of 12, 0.5g Packets	1 oz.	**25128** 10+	**$2.65** **$2.40**

Contents	10-Person	25-Person
Adhesive Strips, Plastic, 1″ x 3″	16	100
Gauze Pads, 3″	4	
Gauze Pads, 4″		5
Large Wound Dressing	1	1
Gauze Bandage, 4″	1	1
Triangular Bandage 40″	1	1
Adhesive Tape, 1/2″ x 5 yds.	1	1
Eye Pads	2	2
Eye Flush, 1 oz.	1	1
Antiseptic Wipes	30	30
First Aid Burn Cream Packets	6	6
Latex Exam Gloves, (ea.)	4	4
Scissors	1	1
Forceps	1	1
Aspirin		12
Cold Pack		1

Vehicle First Aid Kits

Forestry Suppliers Unitized First Aid Kits
3618

Considered by many to be the most efficient use of first aid supplies!

Our unitized first aid kits divide medication, creams, and bandages into individual, premeasured units, taking the guesswork out of how much gauze wrap or first aid cream a wound may require. When there's a minor accident, simply use one of whatever you need, whether it's one tube of burn cream, one antiseptic towelette, or one adhesive bandage. These smaller units of first aid supplies are conveniently grouped and packaged into larger, color-coded boxes, simplifying identification and inventory upkeep. The larger boxes are also wrapped in clear plastic and stored in rugged, 20-gauge steel cases with neoprene gaskets to keep contents fresh and dry. Additional storage case features include smooth rounded corners, built-in wall-mount brackets, interior dividers to better organize the supplies, and inside labels printed with first aid instructions. All four of our unitized kits meet the manufacturing and packaging requirements as specified by the FDA Good Manufacturing Practices and ANSI Z308.1-1978 requirements for lot numbers and expiration dates.

Forestry Suppliers Unitized First Aid Kit, 10-Unit Kit, Dimensions: 8″L x 5″W x 2-1/2″H.	2 lbs.	**25280** 6+	**$31.75** **$29.50**
Forestry Suppliers Unitized First Aid Kit, 16-Unit Kit, Dimensions: 9-1/2″L x 6-3/4″W x 2-1/2″H.	3 lbs.	**25281** 6+	**$43.95** **$39.25**
Forestry Suppliers Unitized First Aid Kit, 24-Unit Kit, Dimensions: 9-1/2″L x 9-1/2″W x 2-1/2″H.	4 lbs.	**25282** 6+	**$52.50** **$49.25**
Forestry Suppliers Unitized First Aid Kit, 36-Unit Kit, Dimensions: 10-1/2″L x 14-1/2″W x 2-3/8″H.	6 lbs.	**25283** 3+	**$78.75** **$73.75**

Unitized First Aid Kits

Contents/Refills	/Pkg.	10 Unit	16 Unit	24 Unit	36 Unit	Weight	SN	Each	10+
Adhesive Strips, Plastic	16	1	1	2	2	1 oz.	**25110**	**$1.10**	**$1.00**
Fabric Strips, X-Large	6		1	1	1	1 oz.	**25111**	**$1.60**	**$1.45**
Knuckle Bandages	8		1	1	1	1 oz.	**25118**	**$1.35**	**$1.20**
Fingertip Bandages	10		1	1	1	1 oz.	**25119**	**$1.55**	**$1.40**
Major Wound Bandage/Compress w/Exam Gloves	1	1	1	1	1	2 oz.	**25125**	**$3.10**	**$2.80**
Eye Flush (1 oz.), Pads, & Strips	1		1	1	1	2 oz.	**25226**	**$3.85**	**$3.55**
Gauze Pad, 3″	4	1	1	1	1	1 oz.	**25188**	**$1.30**	**$1.00**
Triangular Bandage, Pressed, Sterile, 40″ x 40″ x 56″	1	1	1	1	1	2 oz.	**25122**	**$2.65**	**$2.45**
Adhesive Tape, 1/2″ x 5 yds.*	2	1	1	1	1	1 oz.	**25014**	**$1.50**	**$1.20**
Antiseptic Towelettes	10	1	1	2	2	2 oz.	**25123**	**$1.25**	**$1.00**
ABT First Aid/Burn Cream, 0.5g packets	12	1	1	1	1	1 oz.	**25124**	**$2.25**	**$2.00**
Hydrocortisone Cream, 0.5g packets	12			1	1	1 oz.	**25132**	**$2.25**	**$1.95**
1/3 oz. packets of Tecnu® Oak-n- Ivy Cleanser	4			1	1	3 oz.	**25131**	**$4.40**	**$4.10**
Sting Relief Wipes	10			1	1	1 oz.	**25177**	**$2.10**	**$1.65**
Instant Cold Pack	1			1	1	4 oz.	**25206**	**$1.40**	**$1.10**
Nitrile Gloves, (ea.)	4	1	1	1	1	1 oz.	**25127**	**$1.90**	**$1.50**
CPR Emergency Microshield Mask	1				1	2 oz.	**25295**	**$11.25**	**$9.75**

*Refill is a pack of 2.

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Corium Antibacterial Hand Sanitizer
3792

Kills germs without water!

Effectively kills 99.9% of germs including MRSA (methicillin-resistant Staphylococus aureus). Features a fresh, clean scent, leaves no sticky residue after use, moisturizes your skin, plus it contains Aloe Vera gel and Vitamins A & E. To use, apply enough product to thoroughly wet hands and allow hands to air dry. Contains 62% FDA approved Ethyl Alcohol (CDC recommended).

4 oz. Bottle	5 oz.	**25376**	**$2.55**
		12+	**$2.25**

EXTECH INSTRUMENTS

Extech® Non-Contact Forehead IR Thermometer
7481

°Fahrenheit / °Celsius

Perfect for fast detection of elevated body temperature! An adjustable alarm alerts the user when a temperature measurement exceeds the programmed limit. Up to 32 readings can be stored. The non-contact design reduces the potential of spreading diseases and eliminates the need for replacement probe covers and other supplies.

Range: Body Temperature, 89.6°F to 108.5°F (32°C to 42.5°C); Surface Temperature, 32°F to 140°F (0°C to 60°C). **Basic Accuracy:** Body Temperature, ±0.5°F (±0.3°C); Surface Temperature, ±1.5°F (±0.8°C). **Resolution:** 0.1°F/°C. **Response Time:** 0.5 seconds. **Optimum Measurement Distance:** 1.9″ to 5.9″. **Power:** 2 AA batteries (included). **Dimensions:** 6.3″ x 3.2″ x 1.7″. **Weight:** 6.24 oz.

Extech Non-Contact Forehead IR Thermometer	C	12 oz.	**89460**	**$99.99**

Note: This thermometer is intended for scanning individuals or monitoring an individual for potential elevated temperatures. It is not a substitute for a clinical thermometer. Always use a clinical thermometer when high accuracy body temperature measurements are required.

C Combination English and Metric

First Aid 4-Shelf Station
7151

This 4-shelf station keeps all your first aid supplies neat and organized! Station includes 50 Heavy Woven Fabric Strips, 1″ x 3″; 25 Heavy Woven X-Large Strips; 25 Heavy Woven Knuckle Bandages; 25 Heavy Woven Fingertip Bandages; 10 Gauze Pads, 2″; 10 Gauze Pads, 3″; 10 Gauze Pads, 4″; 1 Hema-Seal Trauma Dressing; 1 Tri-Cut Adhesive Tape, 2″; 2 Sterile Gauze Bandages, 2″; 2 Sterile Gauze Bandages, 4″; 2 Triangular Bandages; 100 Alcohol Antiseptic Wipes; 25 Benzalkonium Chloride Antiseptic Towelettes; 25 First Aid/Burn Cream Packets; 25 Triple Antibiotic Ointment Packets; 1 Eye Flush Bottle, 4 oz. with Sterile Eye Cup, Pads, and Strips; 1 Burn Spray, 4 oz.; 1 Antiseptic Spray, 4 oz.; 50 Aspirin; 50 Extra Strength Non-Aspirin Tablets; 100 Nasal Decongestant Tablets; 50 Ibuprofen Tablets; 50 Antacid Tablets; 100 Cotton Tip Applicators; 2 Large Instant Cold Packs; 1 Elastic Bandage, 4″; 10 Latex Exam Gloves; 1 Scissors; 1 Forceps; 1 First Aid Guide (ANSI 2009 version). Metal case with hinged door measures 14″ x 21″ x 5-7/8″.

4-Shelf Station	21 lbs.	**25233**	**$164.95**

Soft-Sided First Aid Kit
4612

Contains 195 Pieces

This soft-sided kit is equipped to treat basic first aid incidents and accidents. Clear content pouches allow for quick, easy access. Contents of this 195-piece kit include: 15 alcohol pads, 10 antiseptic wipes, 8 sting relief wipes, 5 cleansing wipes, 1 instant cold pack, 10 finger splints, 4 antibiotic packets, 2 burn cream packets, 100 adhesive plastic bandages (3/4″ x 3″), 10 junior plastic bandages, 1 butterfly closure, 2 eye pads (1-5/8″ x 2-5/8″), 10 gauze pads (2″ x 2″), 1 first aid tape roll (1/2″ x 25 yds.), 2 gloves, 1 first aid handbook, 1 registration card, 1 pair of scissors, 1 plastic tweezers, and 10 cotton-tip applicators.

Soft-Sided First Aid Kit	1 lb.	**25469**	**$14.75**
195 Pcs		10+	**$13.75**

All-Terrain First Aid Kit
4837

Ideal for use in the most intense working conditions! Contains essential supplies for common injuries on fracking, mining, oil/gas refinery, and power generation/utilities worksites. Bag is made of durable ballistic nylon with a sewn-in strap for hanging on a wall, a Velcro® closure carrying handle and a padded, adjustable shoulder strap. Multiple pockets and compartments make organization and finding supplies in an emergency easy. Meets the following specs: OSHA 29 CFR 1910.151 (b) and ANSI Z308.1-2009. Kit includes a major wound pack; a limb injury pack; a severe burn pack; a basic burn pack; a CPR and Shock pack; an eye wound pack; 1 snake bite kit; a splinter and tick removal kit; multi trauma dressing; 1 large sterile burn sheet; 4 oz. burn spray; 4 oz. antiseptic spray; 4 oz. eyewash; triangular bandages; 2 cold packs; 2 combine dressings; 1 aluminized rescue blanket; 1 triple cut first aid tape; 4 nitrile exam gloves; 12 ibuprofen; 12 non-aspirin; 12 nasal decongestant; 6 first aid/burn cream packets; 6 triple antibiotic ointment packets; 5 sting relief wipes; 10 BZK antiseptic wipes; 10 alcohol pads; 3.5″ steel forceps; four 2″ gauze pads; 20 - 3/4″ x 3″ adhesive strips; 5 fabric knuckle bandages; 5 fabric fingertip bandages; and PhysiciansCare 7″ non-stick titanium bandage shears.

All-Terrain First Aid Kit	8 lbs.	**25077**	**$175.00**

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Pac-Kit® Climber's Kits
4611

Tough environments require serious attention! Keep a climber's first aid kit handy for treating serious wounds until medical help can be found. The rugged ballistic nylon bag has an ultra secure Velcro® closure and a nickel-plated belt hook.

Climber's Kit

Contents include: 1 Hema-Seal Major Wound Bandage, 1 4″ x 4 yd. Conforming Gauze Bandage, and 4 fastening clips.

Climber's Kit 8 oz.	**25463**	**$9.95**

Climber's Kit w/Wound Seal

Contents include: 1 WoundSeal® Rapid Response Bottle, 1 Hema-Seal Major Wound Bandage, 1 4″ x 4 yd. Conforming Gauze Bandage, and 4 fastening clips.

Climber's Kit w/Wound Seal 8 oz.	**25464**	**$19.50**

Easy Access Bandages™
4710

Grip. Pull. Stick. Putting on bandages has never been so easy! The convenient, portable pack provides easy, one-hand application with less mess and less contamination. Pack includes ten 1″ x 3″ strips, ten 3/8″ x 1-5/8″ strips, and ten 3/4″ x 3″ strips.

Fabric Strips - Assorted, 30 Count 1 oz.	**25207**	**$3.95**
	6+	**$3.50**
Plastic Strips - Assorted, 30 Count 1 oz.	**25218**	**$3.45**
	6+	**$3.10**

Tecnu® First Aid Gel
page 650

First Aid/Burn Cream Packets
2311

Ideal for minor cuts, scrapes, and burns, this soothing cream helps prevent infection. Box of 12 packets.

ABT First Aid/Burn Cream, 0.5g packets, Box of 12 1 oz.	**25124**	**$2.25**
	10+	**$2.00**

Dyna-Stopper Multi-Purpose Wound Dressing
4817

This sterile, non-stick dressing unfolds to 9″ x 5-1/2″ to provide coverage of wounds or burns. Includes stretch gauze roll for use as a pressure bandage. Dyna-Stopper can also be used as an arm sling.

Dyna-Stopper Multi-Purpose Wound Dressing	1 oz.	**25165**	**$9.50**

Bloodborne Pathogens Protection Kit
3610

Weatherproof kit with personal protective apparel and spill clean-up provisions.

Kit contains one spill clean-up pack and one personal protective apparel pack. The spill clean-up pack includes one packet of chlorinated absorbent powder, one scoop and spatula, one EPA registered surface disinfectant cloth, two disposal bags (one unmarked, one marked biohazard), one pair heavy-duty latex exam gloves, and two antiseptic towelettes. The personal protective apparel pack contains one control gown (size large), one pair heavy-duty latex exam gloves, one eye and face shield/mask combination, one biohazard bag, and two antiseptic towelettes. 6-1/2″ x 9-1/2″ x 2-3/4″ Polypropylene case features carrying handle with wall mounting slots. Complies with OSHA §1910.1030 for bloodborne pathogens.

Bloodborne Pathogens Protection Kit	1 lb.	**25284**	**$20.25**
		6+	**$17.75**

CPR Emergency Microshield® Mask
6552

Convenient, compact, disposable.

This mask features a unique one-way valve for rescuer's safety. Compact size makes mask ideal for any first aid kit. Instructions included. Dispose of after use. 4″L x 2-1/4″W x 3/4″H.

CPR Emergency Microshield Mask 2 oz.	**25295**	**$11.25**
	10+	**$9.75**

Instant Cold Pack
2309

Get immediate relief with this 4″ x 6″ cold pack!

Instant Cold Pack 4 oz.	**25206**	**$1.40**
	10+	**$1.10**

Disposable Gloves
page 616

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Forestry Suppliers Fanny Pack First Aid Kit
3835

Everything you need for minor general first aid, wound treatment and sprain and limb injuries. Contains ten 1″ x 3″ adhesive strips, 2 knuckle bandages, 2 fingertip bandages, two 2″ x 3″ adhesive strips, 4 butterfly closures, 2 gauze pads, 1 roll of adhesive tape, 4 motion sickness tablets, 2 triple antibiotic ointment packets, 2 first aid/burn cream packets, 20 antiseptic wipes, 4 extra-strength non-aspirin tablets, 1 sting relief wipe, 3 pair of latex gloves, an elastic bandage (4″ x 5 yds.), 1 cold pack, 1 triangular bandage, 1 large wound dressing (5″ x 9″), 4 gauze pads (4″), a sterile gauze bandage with clips (4″ x 4 yds.), 6 antiseptic towelettes, and a heat-reflective emergency/survival wrap. Fanny pack is made of Cordura® nylon and has adjustable nylon web belt. **Dimensions:** 8″W x 6″H x 4″D.

Fanny Pack First Aid Kit	1 lb.	**24998**	**$22.75**
		6+	**$21.25**

Emergency Burn Kit
3649

All the right first aid equipment, right at your fingertips.

For large or small burns. Kit contains one sterile 8″ x 18″ Water Jel® burn dressing, one 4″ sterile bandage and compress with fastening clips, and one pair of latex exam gloves. Contents are stored in a soft pack.

Emergency Burn Kit	14 oz.	**25094**	**$25.25**
		12+	**$22.25**

Forestry Suppliers Pesticide First Aid Kit
8609

Includes everything recommended by the CDC for responding to a pesticide trauma. Contents include activated charcoal, a mouth and eye shield, 1 box of 1″ x 3″ adhesive strips (16), 3 tongue depressors, 1 can of evaporated milk, 1 emergency blanket, 2 plastic spoons, 4 - 16 oz. bottles of water, 2 pair Nitrile gloves, adhesive tape, 2 plastic jars with screw lids, and 1 can opener. All stored in a bright red bag for easy identification. **Bag Dimensions:** 13.5″L x 8.25″W x 8.75″H.

Pesticide First Aid Kit	7 lbs.	**24987**	**$91.95**
		3+	**$81.95**
Bouton "Fog-Free" Chemical Splash Goggle	4 oz.	**23334**	**$5.50**
		12+	**$4.75**
		24+	**$4.25**

Forestry Suppliers Emergency Medical Backpack
3638

Ideal for use in the field, this backpack contains individually packaged, color coded first aid modules for the treatment of a variety of injuries. Constructed of 600 denier nylon, the rugged backpack features an interior zippered pocket for storing documents and a zippered exterior closure. The backpack can be worn on the shoulders using the adjustable shoulder straps, worn around the waist by reconfiguring the straps, or carried by hand using the built-in carrying handle. Includes nine first aid modules plus two Hema-Seal major wound bandages.

Emergency Medical Backpack	5 lbs.	**24999**	**$110.25**
		3+	**$104.75**
Hema-Seal Major Wound Bandage with gloves	2 oz.	**25056**	**$3.30**
		10+	**$2.75**

General First Aid Module – Ten 1″ x 3″ fabric adhesive strips, 2 fabric knuckle bandages, 2 fabric fingertip bandages, 2 2″ x 3″ extra large fabric strips, 4 butterfly closures, 2 3″ x 3″ gauze pads, 1 1/2″ x 5 yds. adhesive tape, 2 triple antibiotic packets, 2 first aid/burn cream packets, 20 antiseptic wipes, 1 sting wipe, 4 motion sickness tablets, 4 extra strength non-aspirin tablets, and 2 gloves.

General First Aid Module	3 oz.	**25001**	**$6.25**
		10+	**$5.40**

Wound Treatment Module – Four 4″ gauze pads, 1 5″ x 9″ large wound dressing, 1 4″ x 4 yds. sterile gauze bandage, 6 antiseptic towelettes, and 2 gloves.

Wound Treatment Module	3 oz.	**25002**	**$5.50**
		10+	**$4.75**

Severe Wounds Treatment Module – Ten 4″ gauze pads, 1 8″ x 10″ large wound dressing, 1 10″ x 30″ multi-trauma dressing, 2 4″ x 4 yds. sterile gauze bandage, 6 antiseptic towelettes, and 2 gloves.

Severe Wounds Treatment Module	7 oz.	**25003**	**$11.75**
		10+	**$9.95**

Eye First Aid Module – Two eye pads and strips, 1 4 oz. eye flush, and 1 sterile eye cup.

Eye First Aid Module	5 oz.	**25004**	**$5.25**
		10+	**$4.50**

Sprains Module – One 40″ triangular bandage, 1 4″ elastic bandage, 1 instant cold pack, and 2 gloves.

Sprains Module	6 oz.	**25051**	**$5.25**
		10+	**$4.75**

Sprains and Fractures Module – One 40″ triangular bandage, 1 2″ elastic bandage, 1 4″ elastic bandage, 1 Sam Splint, 1 instant cold pack, and 2 gloves.

Sprains and Fractures Module	1 lb.	**25052**	**$31.50**

Burn Treatment Module – One 4″ x 4 yds. sterile gauze bandage, 1 2″ x 6″ Water Jel® burn dressing, and 2 gloves.

Burn Treatment Module	3 oz.	**25053**	**$9.70**
		10+	**$8.50**

Severe Burns Treatment Module – Two 4″ x 4 yds. sterile gauze bandage, 1 8″ x 18″ Water Jel® burn dressing, and 2 gloves.

Severe Burns Treatment Module	12 oz.	**25054**	**$26.75**

CPR/Shock Treatment Module – One CPR mask with a one-way valve, 1 aluminized rescue blanket, and 2 gloves.

CPR/Shock Treatment Module	3 oz.	**25055**	**$5.75**
		10+	**$4.75**

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Deluxe Immobilization Backboard
7394

This lightweight, one-piece backboard features built-in speed clip pins that can be used with loop end or clip-in straps (straps not included) to maximize strapping options. Designed for easy maneuverability with a minimum of disturbance to the patient, the board's runners keep the board raised for easy lifting. Extra-large handholds easily accommodate even bulky firefighter gloves. The board is 100% x-ray translucent and can even be used during an MRI. Easy to clean, the board is highly resistant to blood, oils, acids, and other chemical contaminants. **Capacity:** 550 lbs. (350 lbs. floating in water). **Dimensions:** 16˝W x 72˝L. **Weight:** 12 lbs. **Note:** Color may vary.

Deluxe Immobilization Backboard	X	20 lbs.	**25911**	**$162.75**
			3+	**$149.95**

Immobilization Backboard Straps
7395

11-Point Spider Strap with Velcro® Adjustments

Featuring 11 points of contact, this strapping system provides excellent patient security and immobilization. The eleventh point of the strapping system allows straps to be cleared of the patient while the system remains attached to the backboard. A convenient strapping loop keeps the strap compact and organized during storage. Constructed of fluid-impervious poly webbing that can be cleaned with a bleach/water solution.

11-Point Spider Strap with Velcro Adjustments	1 lb.	**25912**	**$35.25**
		3+	**$32.25**

5´ Buckle Strap

This popular two-piece nylon strap features speed clip ends and a metal push-button buckle. **Length:** 5´.

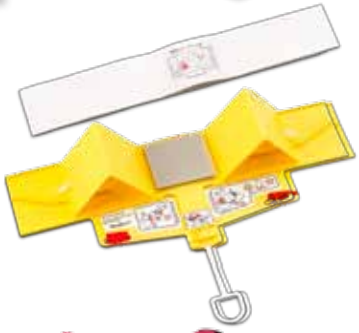
5´ Buckle Strap	11 oz.	**25913**	**$16.95**

Ambu® Perfit Extrication Collar
7397

This one-piece cervical spine immobilization device assists with the maintenance of neutral alignment during transport and routine patient care. Features include an extra large trachea opening, nasal cannula holders on the collar body (except infant size), and a flip chin piece for easy airway access. The collar is x-ray, CT, and MRI compatible and stores completely flat.

Collar								
Infant	Pediatric	Regular	Short	Tall	Neckless	Weight	Each	3+
25915	**25916**	**25917**	**25918**	**25919**	**25920**	5 oz.	**$11.90**	**$10.75**

Ambu® Head Wedge
7396



Easy to use and completely waterproof, this disposable head wedge keeps the patient's head immobilized when used with any backboard. Multiple settings allow for a custom fit. Constructed of durable plastic.

Ambu Head Wedge	4 oz.	**25914**	**$8.95**

Trauma Kits
8178

These comprehensive first aid kits contain essential supplies for providing treatment in a variety of emergency situations. Contents of each kit are housed in a heavy-duty Cordura® bag that provides room for your own personal medical supplies as well.

120-Piece Trauma Kit

Kit contents are housed in a 100 denier Cordura® bag with handle, padded shoulder strap, four zippered mesh pockets, and five nylon pockets. Bag measures 13.75˝ x 10.75˝ x 3˝.

Contents include: 50 1˝ x 3˝ Woven Adhesive Strips, 1 Aluminized Thermal Blanket, 1 Cold Pack (4˝ x 5˝), 3 rolls 2˝ Gauze Bandage, 2 5˝ x 9˝ Large Wound Pads, 1 8˝ x 10˝ Large Wound Pad, 4 2˝ Gauze Pads, 4 3˝ Gauze Pads, 20 4˝ Gauze Pads, 1 Hemi-Seal Trauma Dressing with Gloves, 3 Burn Jel Packets, 1 roll 2˝ Tri-Cut Adhesive Tape, 6 Alcohol Wipes, 6 PVP Iodine Wipes, 1 4 oz. Eye Flush, 2 Eye Pads, 1 Biohazard Bag, 2 Clear Bags, 3 Triangular Bandages, 1 First Aid Booklet (ANSI 2009 version), 1 pair Latex Gloves, 1 CPR Mask (with One Way Valve), 1 pair EMS Shears, 1 4-1/2˝ Steel Forceps.

120-Piece Trauma Kit	3 lbs.	**25057**	**$75.75**
		3+	**$70.75**

158-Piece Trauma Kit

Kit contents are housed in a 100 denier Cordura® semi-rigid bag with handle, shoulder strap, side pockets, main compartment with removable divider and pocket, lid with zippered pouch, buckle closure, and business card holder. Bag measures 16˝ x 8.75˝ x 7.5˝.

Contents include: 50 1˝ x 3˝ Woven Adhesive Strips, 1 Aluminized Thermal Blanket, 1 Cold Pack (4˝ x 5˝), 2 Large Cold Packs (6˝ x 9˝), 1 pair EMS Shears, 2 rolls 4˝ Gauze Bandage, 1 roll 6˝ Gauze Bandage, 2 3˝ Elastic Bandages, 6 3˝ Gauze Pads, 20 4˝ Gauze Pads, 3 5˝ x 9˝ Large Wound Pads, 2 8˝ x 10˝ Large Wound Pads, 2 Hemi-Seal Trauma Dressings with Gloves, 1 4 oz. Burn Jel Squeeze Bottle, 1 10˝ x 30˝ Multi-Trauma Dressing, 1 roll 2˝ Tri-Cut Adhesive Tape, 24 Alcohol Wipes, 12 PVP Iodine Wipes, 1 4 oz. Eye Flush, 1 16 oz. Eye & Skin Flush, 4 Eye Pads with Strips, 1 Biohazard Bag, 4 Triangular Bandages, 1 First Aid Booklet (ANSI 2009 version), 4 pairs Latex Gloves, 2 CPR Masks (with One Way Valves), 1 4-1/2˝ Steel Forceps.

158-Piece Trauma Kit	6 lbs.	**25048**	**$111.75**
		3+	**$102.50**

X Items 60˝ or more require an additional handling charge.

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YETI

YETI® Coolers
8747

Wildly stronger! Keep ice longer!

Extreme construction for extreme situations! Constructed with one-piece, roto-molded UV polyethylene and food-grade material, these coolers are dry-ice compatible and provide superior insulation thanks to at least 2″ of Yeti's polyurethane foam (3″ in the lid).

Features a full-perimeter freezer-style gasket to lock in the cold; T-latch keepers and tie-down points molded into the cooler body; padlock holes molded into the cooler body and lid; full-length, self-stopping hinge that won't hyper-extend or break; non-slip/non-marking rubber feet; replaceable nylon rope and textured grip handles; and a drain plug with rubber washer that's guaranteed not to leak.

Certified as "Bear Resistant Containers" by the Interagency Grizzly Bear Committee (a division of the U.S. Forest Service).

YETI Roadie™ Series Coolers

Personal-sized cooler for smaller occasions. Features a full-length stainless steel carrying handle that folds down for convenience.

20-Quart Personal Cooler, White, 20″L x 13-3/8″W x 14-3/8″H 19 lbs.	**31105**	**$249.99**
20-Quart Personal Cooler, Tan, 20″L x 13-3/8″W x 14-3/8″H 19 lbs.	**31111**	**$249.99**

YETI Tundra™ Series

45 Quart, White, 25-1/2″L x 15-1/2″W x 15-1/2″H 28 lbs.	O	**31101**	**$349.99**
45 Quart, Tan, 25-1/2″L x 15-1/2″W x 15-1/2″H 29 lbs.	O	**31108**	**$349.99**
65 Quart, White, 30-1/2″L x 17-1/8″W x 16-1/4″H 34 lbs.	O	**31102**	**$399.99**
65 Quart, Tan, 30-1/2″L x 17-1/8″W x 16-1/4″H 35 lbs.	O	**31109**	**$399.99**
Master Lock Python Cable Lock (keyed different) 6′L x 3/16″Dia. cable 8 oz.		**94754**	**$12.95**
Set of 2 Replacement Drain Plugs 1 oz.		**31123**	**$7.99**

PELICAN

Pelican™ ProGear™ Coolers
2858

Manufacturer's Warranty Lifetime

Made in USA

Built to withstand tough outdoor conditions, each cooler provides ice retention for as long as 7 to 10 days thanks to a freezer-grade gasket and 2″ polyurethane insulation. The dual-handle system features both molded-in and hinged handles. Wide press-and-pull latches are designed for easy use even if you're wearing gloves. Each cooler also features molded-in tie-downs, an integrated fish scale on the lid, sloped drain with tethered threaded plug (garden hose attachable), stainless steel-reinforced lock hasp, and non-skid, non-marking raised feet. Constructed of polyethylene and features corrosion-resistant stainless steel hardware. Manufacturer's lifetime warranty. Made in USA.

Cooler	New 20-Quart	35-Quart	45-Quart	65-Quart	95-Quart	150-Quart	250-Quart
Tan	**31072**	**31066**	**31067**	**31068**	**31069**	**31070**	**31071**
White	**31073**	**31057**	**31058**	**31059**	**31060**	**31061**	**31062**
Interior (LWD)	14.75″x 10″ x 8.75″	15.75″x 12″ x 11.5″	19″x 12″x 12″	26.5″x 12″ x 12.5″	27.34″x 12″ x 17.62″	34″L x 17″ x 15.75″	50.25″x 17″ x 17.5″
Exterior (LWD)	20.12″x 15.07″ x 14.12″	26.41″x 20″ x 18.75″	29.66″x 20″ x 19.25″	37.16″x 20″ x 19.75″	37.75″x 20″ x 24.88″	44.88″x 25″ x 24.38″	61.13″x 27.5″ x 27.5″
		O	O	O	F	F	F
Weight	19 lbs.	35 lbs.	40 lbs.	52 lbs.	51 lb.	80 lbs.	111 lbs.
Each	**$224.99**	**$233.96**	**$269.96**	**$323.96**	**$431.96**	**$521.96**	**$710.96**

Grizzly

Grizzly 16-Quart Cooler
4700

Offers the perfect balance of durability and performance in a personal-size, premium cooler. The Grizzly 16 Cooler comes standard with two carry handles.

Grizzly 16 Capacity: 20 - 12 oz. cans; 16- 12 oz. bottles; 10- 20 oz. bottles; or 48 lbs. of game. **Exterior Dimensions:** 20″W x 11.5″ Deep x 14.5″H. **Interior Dimensions:** 14.5″W x 6.5″ Deep x 11″H. **Weight:** 11.5 lbs. **Ice Retention:** 4 Days, 5 Hours.

16qt., Blue with Blue Lid	14 lbs.	**31159**	**$178.50**
16qt., Sandstone with Tan Lid	14 lbs.	**31162**	**$178.50**
16qt., Tan with Tan Lid	14 lbs.	**31163**	**$178.50**
16qt., White with White Lid	14 lbs.	**31164**	**$178.50**

Grizzly

Grizzly 60-Quart Cooler
4700

These coolers offer the perfect balance of durability and performance for long excursions in the outdoors! With the unique latching system, Grizzly coolers have been certified Bear Resistant by the IGBC testing protocols when combined with two shackle padlocks.

Grizzly 60 Capacity: 78 - 12 oz. cans; 42 - 12 oz. bottles; 40 - 20 oz. bottles; or 48 lbs. of game. **Dimensions:** 28.5″W x 20″ Deep x 19.75″H. **Weight:** 25.75 lbs. **Ice Retention:** 9 Days, 21 Hours.

60qt., Blue with Blue Lid	O	29 lbs.	**31172**	**$348.75**
60qt., Sandstone with Tan Lid	O	30 lbs.	**31177**	**$348.75**
60qt., Tan with Tan Lid	O	30 lbs.	**31180**	**$348.75**
60qt., White with White Lid	O	29 lbs.	**31182**	**$348.75**

Grizzly

Grizzly 150-Quart Cooler
4700

Designed for long excursions in the outdoors, the Grizzly offers the perfect balance of durability and performance! With the unique latching system, Grizzly coolers have been certified Bear Resistant by the IGBC testing protocols when combined with two shackle padlocks.

Grizzly 150 Capacity: 162 - 12 oz. cans; 150 - 12 oz. bottles; 132 - 20 oz. bottles; or 122 lbs. of game. **Dimensions:** 48.5″W x 22.5″ Deep x 20.5″H. **Weight:** 54 lbs. **Ice Retention:** 11 Days, 4 Hours.

150qt., Blue with Blue Lid	O	54 lbs.	**31140**	**$474.50**
150qt., Sandstone with Tan Lid	O	54 lbs.	**31148**	**$474.50**
150qt., Tan with Tan Lid	O	54 lbs.	**31149**	**$474.50**
150qt., White with White Lid	O	54 lbs.	**31157**	**$474.50**

O Ships at Oversize rate.
F Ships Motor Freight.

[search engine powered by magazooms.com]

Engel Portable Freezers
2251

Use these freezers to keep everything from food and beverages to field and biological samples cool! The reliable, efficient freezers offer fast freezing, are 100% CFC-free, and feature automatic temperature control.

Engel MD14F 15-Quart Freezer

Compact and portable, this professional freezer can refrigerate or freeze down to 0°F. Features include a top-opening access door in the lid and a 3.0 amp compressor. Includes a 9′ detachable 12V power lead. Two-year manufacturer's warranty.

Volume: 15 quarts. **Freezing ability:** 45°F to 0°F. **Power:** DC 12V (or 110V, converter required). **Inside dimensions:** 13.7″ x 7.5″ x 8″. **Outside dimensions:** 17.5″ x 11.25″ x 15.6″.

Engel MD14F 15-Quart Freezer	28 lbs.	**31152**	**$645.00**

Engel 35 34-Quart Freezer

Housed in a durable powder-coated steel exterior, this mid-size commercial freezer refrigerates or freezes to below 0°F. The freezer features a 2.5 amp compressor and a convenient removable basket. A 9′ detachable 12V power lead is included. Two-year manufacturer's warranty.

Volume: 34 quarts. **Freezing ability:** 40°F to below 0°F. **Power:** AC/DC (12-24V or 110V). **Inside dimensions:** 15.4″ x 10.8″ x 12″. **Outside dimensions:** 25.5″ x 14.3″ x 16″.

Engel 35 34-Quart Freezer	59 lbs.	**31151**	**$868.00**

Engel DeepBlue Performance Coolers
4816

Roto-molded of seamless polyethylene, these coolers are tough enough to stand up to a hungry grizzly bear! Plus, a full 2″ of dense polyurethane foam is injected in the top, bottom and sides to provide 8-10 days of cold-keeping capability. Other high quality features include air-tight freezer gasket seals around the entire lid; a non-skid lid built for standing and sitting on; a pitched, self-draining bottom; a one-turn drain plug; integrated walls that withstand freezing effects of dry ice; holes in front corners for lid locks; molded hand grips and convenient rope handles; large, non-marking feet; raised base for easy cleaning; flush-mounted, marine-grade latches with stainless steel hardware and backing plates; and they are easy to keep clean using any non-abrasive cleaner. Thanks to the multi-way attachment system, coolers are easily secured with most tie-down systems. Certified Bear-Resistant containers.

	25 Qt.	35 Qt.	65 Qt.	80 Qt.	123 Qt.	240 Qt.	320 Qt.
White	**31240**	**31242**	**31244**	**31246**	**31248**	**31250**	**31251**
Tan	**31241**	**31243**	**31245**	**31247**	**31249**		
Restrictions		O	O	O	O	F	F
Weight	10 lbs.	10 lbs.	15 lbs.	20 lbs.	35 lbs.	40 lbs.	80 lbs.
Each	**$229.99**	**$244.49**	**$339.99**	**$379.99**	**$459.99**	**$768.99**	**$944.99**

Arctic Ice™ Alaskan Series High Performance Reusable Ice
4815

Keeps Food and Drinks Chilled

The Alaskan Series reusable ice freezes at 33.8°F (1°C) and keeps beverages and perishables refrigerated all day or longer. Designed at the molecular level to maintain its freezing point while absorbing surrounding heat until it is fully thawed. The active ingredient, PureTemp™, is derived from plants making it non-toxic and environmentally friendly.

Arctic Ice™ Tundra Series High Performance Reusable Ice
4815

Maintains Freezer Temperature

Portable, safe and reusable, the Tundra Series reusable ice was designed at the molecular level to freeze at +5°F (-15°C) and maintains a consistent freezer temperature as it stubbornly thaws. Ideally suited to replace dry ice, it works best when frozen for 36 hours at the lowest setting available on consumer freezers. The purple interior turns white when fully charged.

Size	Unit Dimensions	Unit Weight	Alaskan Series	Tundra Series	Weight	Each
Small	4.25″ x 6.25″ x 1.25″	0.75 lbs.	**31252**		12 oz.	**$9.95**
	6.75″ x 7.75″ x 1.25″	1.5 lbs.		**31256**	13 oz.	**$10.95**
Medium	6.75″ x 7.75″ x 1.25″	1.5 lbs.	**31253**		2 lbs.	**$12.95**
	6.75″ x 7.75″ x 1.25″	1.5 lbs.		**31257**	2 lbs.	**$13.95**
Large	7.5″ x 9.5″ x 1.25″	2.5 lbs.	**31254**		2 lbs.	**$15.95**
	7.5″ x 9.5″ x 1.25″	2.5 lbs.		**31258**	2 lbs.	**$16.95**
X-Large	10.925″ x 8.661″ x 1.85″	5 lbs.	**31255**		5 lbs.	**$23.95**
	10.925″ x 8.661″ x 1.85″	5 lbs.		**31259**	5 lbs.	**$24.95**

O Ships at Oversize rate. See Shipping Information for details. F Ships Motor Freight. See Shipping Information for details.

Collapsible Water Container
6045

Won't break, crack or dent, yet folds flat for storage

Five-gallon capacity. Features carry bail and plastic closure. Polyethylene plastic. Folds flat.

Collapsible Water Container 11 oz.	**93291**	**$11.75**
	12+	**$9.75**

Wedco-Pac Five-Gallon Water Container
6044

Made of high density, unbreakable polyethylene. Sanitary, odorless, and non-toxic. Tap has large opening for easy pouring. Leak-proof vent cap. Rigid rectangular shape for easy shelf storage. Blue. **Dimensions:** 16″L x 8.5″W x 11″H.

Wedco-Pac Five-Gallon Water Container 2 lbs.	**93299**	**$28.75**
	6+	**$26.95**

Rubbermaid®

Rubbermaid® Blue Ice Soft Packs
6052

Cooling effect of 4 lbs. of ice

Refrigerate or freeze soft packs, then place them in your ice chest for hours of chilling power. 6.6″ x 1.3″ x 11.9″ Poly bag materials are safe and odorless. FDA compliant.

Rubbermaid® Blue Ice Soft Pack 1 lb.	**31181**	**$2.30**
	12+	**$1.90**

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Rubbermaid

Rubbermaid® Universal Water Cooler Truck Bracket

6650

Adjustable truck bracket stores and protects a 5- to 10-gallon water coolers. Constructed of high impact plastic with nylon straps to hold cooler securely in place. Mounts from bottom only.

Universal Water Cooler Truck Bracket 3 lbs.		31153	$47.50

Rubbermaid

Rubbermaid® Personal Cooler Packs

6053

6-Pack or 12-Pack Sizes

Five-quart size holds six 12 oz. cans. Ten-quart size holds twelve 12 oz. cans. Sturdy polyethylene with thick insulation and lock down lid. **Dimensions:** Five-quart Model, 7.31″ x 10.73″ x 7.85″; Ten-quart Model, 10.5″ x 13.4″ x 9.14″.

Rubbermaid Personal Cooler Pack, 5-quart 2 lbs.		31179	$13.75
	4+		$12.75
Rubbermaid Personal Cooler Pack, 10-quart 3 lbs.		31178	$17.25
	4+		$15.95

Rubbermaid

Rubbermaid® Blue Ice Soft Packs

6052

Cooling effect of 4 lbs. of ice

Refrigerate or freeze soft packs, then place them in your ice chest for hours of chilling power. 6.6″ x 1.3″ x 11.9″ Poly bag materials are safe and odorless. FDA compliant.

Rubbermaid® Blue Ice Soft Pack 1 lb.		31181	$2.30
	12+		$1.90

Rubbermaid

Rubbermaid® Water Coolers

1567

Made in USA

Rugged heavy-duty polyethylene with extra thick foam insulation for all-day-cool beverages. Every Rubbermaid cooler features a lid vent, splash seal, fast flow faucet, and heavy-duty handles. Two-gallon model features a drink spout in the lid. Orange with white top. Made in the USA.

	2-Gallon	3-Gallon	5-Gallon	Ten-Gallon
Handles	Swing-top bail handle	Swing-top bail handle	Folding	Molded-In
Cup Lug	No	Yes	Yes	Yes
Dimensions	9.7″ Dia. x 13.2″H	10-7/8″ Dia. x 16-3/4″H	12-1/2″ Dia. x 19″H	15-1/2″ Dia. x 22″H
Opening	7-1/2″	8-1/2″	10-1/4″	13-3/8″
Restrictions				O
Weight	2 lbs.	5 lbs.	7 lbs.	10 lbs.
SN	31122	31155	31137	31138
Each	$15.25	$32.25	$33.95	$69.95
In Quantity			6+ $33.25	3+ $64.25

Accessories and Replacement Parts for Rubbermaid® Water Coolers

Cup Dispenser, Fits all Rubbermaid coolers equipped with cup lug. Holds 4.25 or 7 oz. disposable cups	10 oz.	31156	$13.25
4.25 oz. Disposable Paper Cups, Pack of 200	15 oz.	31158	$5.95
Replacement Lid, Fits 5-gallon coolers	1 lb.	31171	$13.95
Replacement Screw-On Lid, Fits 10-gallon coolers	1 lb.	31184	$31.50
Replacement Spigot, Fits all coolers	1 oz.	31173	$5.75

Gatorade® Thirst Quencher

1563

Scientifically formulated to help rehydrate the body quickly and improve performance and productivity. 8.5 oz. Pack of powder makes one gallon, 21 oz. pack makes 2-1/2 gallons, 51 oz. pack makes six gallons.

Gatorade Variety Pack, 21 oz. pkg., 32 packs, Makes 2-1/2 gal. per pack.	46 lbs.	33651	$140.25

	Lemon-Lime	Orange	Fruit Punch	Weight	Each	Quantity	$
8.5 oz. pkg.	33965	33633	33644	9 oz.	$2.20	40+	$2.00
21 oz. pkg.	33969	33634	33645	1 lb.	$5.20	32+	$4.40
51 oz. pkg.	33638	33639	33646	3 lbs.	$10.70	14+	$9.90

Rubbermaid

Rubbermaid® Ice Chests

6056

Quality construction and durability!

These popular ice chests utilize thick urethane foam insulation to keep inside items ice cold for hours. Durable, high-density polyethylene exteriors withstand the roughest environments. All chests feature thick, hinged lids and rugged handles. Made in the USA.

Made in USA

34-Quart – Sturdy hinges. Removable food tray. Easy-grip, molded-in handles. Blue with white lid. 21-1/2″L x 13-1/2″W x 13″H.

6 lbs.		31141	$29.95

48-Quart – Sturdy hinges. Removable food tray. Easy-grip, folding handles. Blue with white lid. 23-3/4″L x 15-7/8″W x 14-1/4″H.

8 lbs.	O	31139	$34.50

54-Quart – Features folding handles. Blue with white lid. 28-1/2″L x 13 1/2″W x 17 3/4″H.

9 lbs.	O	31189	$37.75

60-Quart - Wheeled; Features a hinged, split lid, front drain plug, side swing handles, and a retractable metal and plastic pull handle. Blue with white lid. 28-1/2″L x 15-1/4″W x 17-3/4″H.

15 lbs.	O	31128	$60.95

O Ships at Oversize rate. See Shipping Information for details.

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New! Yeti® Rambler™ Tumblers
4906

Stainless steel, double-wall vacuum insulated tumbler keeps your coffee hot and your iced tea cold! Ultra durable, rust-free and sweat-free design. Clear lid keeps the contents visible. Backed by a 5-Year Warranty from the manufacturer.

Yeti Rambler 20 oz. Tumbler	1 lb.	**31124**	**$29.99**
Yeti Rambler 30 oz. Tumbler	1 lb.	**31125**	**$39.99**

Hydro Flask® Tactical Line Insulated Bottles
4767

Manufacturer's Warranty Lifetime

Designed to keep beverages hot or cold for hours!

Constructed of 18/8 stainless steel, the Hydro Flask features double-wall vacuum insulation to keep beverages cold for up to 24 hours and hot for up to 12 hours. In addition, the advanced insulation prevents both condensation from cold beverages and heat transfer from hot beverages so that you can always comfortably handle the bottle. The Hydro Flask is BPA-free, easy to clean, and highly resistant to odors and bacteria. Lifetime warranty from the manufacturer.

Capacity: 21 oz. **Mouth Width:** 1.81″ (standard width). **Bottle Height:** 8.87″ (10.56″ with cap). **Bottle Circumference:** 9.06″. **Bottle Diameter:** 2.85″. **Bottle Weight:** 10.4 oz.

Desert Tan	11 oz.	**93887**	**$25.19**
Foliage Green	11 oz.	**93888**	**$25.19**

NALGENE®

32 oz. Water Bottles
4402, 2677

BPA Free

Constructed of tough Lexan® and impact-resistant even at extreme temperatures. Leakproof loop-top cap keeps the cap with the bottle at all times. Resists stains and odors and does not transfer tastes or smells from use to use. Withstands temperatures from -135°C (-211°F) to 135°C (275°F).

32 oz. Narrow Mouth

Gray	6 oz.	**93982**	**$10.50**
		12+	**$9.50**
Slate	7 oz.	**93989**	**$10.50**
		12+	**$9.50**

32 oz. Wide Mouth

Gray	7 oz.	**93970**	**$10.50**
		12+	**$9.50**
Ruby Red	7 oz.	**93980**	**$10.50**
		12+	**$9.50**
Spring Green	7 oz.	**93987**	**$10.50**
		12+	**$9.50**

New! Easy Sipper, Black, Fits 32 oz. Nalgene Wide Mouth Bottles. Dishwasher safe.
1 oz. **94006** **$3.30**

Belt Pouch

Belt Pouch, Cordura, 5-1/2″ x 10″ x 3-1/2″
3 oz. **94055** **$11.25**

Katadyn® Pocket Water Filter
7111

Produces approximately one quart of filtered water per minute.

Reliably removes all pathogenic bacteria and protozoa (e-coli, giardia, cryptosporidium, salmonella, amoebas, etc.) from water. Water retains its natural mineral content, without the need for boiling. The round pump handle grip with a shock absorber makes pumping easy and effortless, yielding an approximate output of one quart of filtered water per minute. The durable ceramic filter has a pore size of 0.2 micron and can be easily cleaned by brushing the surface with an abrasive pad. 10″L x 2″ Diameter.

Katadyn Pocket Water Filter			
2 lbs.		**93955**	**$369.95**
Replacement Filter			
12 oz.		**93956**	**$199.95**

Katadyn® Mini Filter
6033

Weighs 8 oz. and treats up to one pint per minute! The ceramic filter uses no chemicals to remove protozoa, cysts, fungi, parasites, spores, and giardia, as well as agents of typhoid, dysentery, cholera, amebiasis, and many other diseases to give you the safest drinking water possible. Filter can be cleaned with the special regeneration brush (included) about 100 times and yields up to 2,000 gallons of fresh potable water before it needs replacing (replacement filters available below). Features Katadyn's exclusive silver ion principle which prevents deposited bacteria from growing into the interior of the filter. The filter is constructed of durable Delrin® plastic and is small enough to fit into any backpack or glovebox. It features a 30″ suction hose, manual, and a filter testing gauge. Nylon carrying case with locking drawstring included. 7″H x 2-3/4″W x 1-3/4″D.

Katadyn Mini Filter			
11 oz.		**93922**	**$109.95**
Replacement Katadyn Ceramic Filter			
4 oz.		**93923**	**$59.95**

MSR MiniWorks EX™ Ceramic Water Filter
6031

Effectively removes bacteria and protozoa including Giardia and Cryptosporidia and chemicals such as pesticides, industrial pollutants, iodine, chlorine, and taste and odor compounds from water. "Stay dry" relief valve that vents untreated water out intake hose, a ceramic element that removes bacteria and protozoa, an adapter base for attaching to a water bottle, a clean-side cover that keeps filter outlet free from contamination, inlet float that keeps intake off stream bottom and extends filter cartridge life, ceramic gauge that measures thickness of the ceramic element for replacement, activated inner carbon core that removes chemicals and odors from the water, opposing action lever for easy pumping, rigid polyurethane housing resistant to chemicals and low temperatures, and a 60-second per liter flow rate. Filter can be cleaned for reuse for up to 2,000 liters depending on water quality. 7.8″ long x 3.8″ diameter.

MSR MiniWorks EX Ceramic Water Filter			
2 lbs.		**35412**	**$89.95**
Replacement MiniWorks Ceramic Filter			
7 oz.		**35413**	**$39.95**

CAMELBAK

CamelBak® eddy™ Water Bottle
8134

Won't leak or spill even if left open!

Never worry about spills with this bottle! Just flip up the Big Bite™ valve and sip. The bottle's articulating stem allows the valve to fold flush when not in use, keeping the drinking surface clean. The standard cap size even allows you to use the lid with other bottles. The bottle can be clipped to a carabiner using the integrated handle. Dishwasher safe. **Capacity:** 25 oz. (0.75 liters).

eddy Water Bottle, Navy			
6 oz.		**93973**	**$14.25**
eddy Water Bottle, Charcoal HOD			
7 oz.		**93992**	**$14.95**
		12+	**$13.95**

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PEET DRYER

Peet Personal Hydration System Dryer

7693

Helps prevent the growth of mold and mildew in your hydration bladder. Easy-to-use, it dries using natural thermal convection. There are no chemicals, hangers, cleaning tablets or special brushes – just a gentle air flow that inhibits growth of contaminates that are unhealthy and prematurely deteriorate the reservoirs. Adjustable to fit Camelbak® and most other reservoirs with 3″ openings. Operates on an energy-efficient 18 watts.

Personal Hydration Dryer 2 lbs.	**93931**	**$39.99**

Manufacturer's Warranty Limited Lifetime

Steri-Pen System Water Purifier

8427

SteriPEN™ is the only portable water purifier that uses ultraviolet (UV) light to destroy waterborne microbes. With the push of a button, it purifies clear water in seconds by destroying viruses (such as hepatitis and poliovirus), bacteria (Salmonella and E.coli) and protozoa (including Giardia and Cryptosporidium). The ultraviolet lamp lasts up to 3,000 treatments. Meets the U.S.E.P.A. Protocol for Microbiological Water Purifiers.

Dosage Selector for 2 Volumes: 16 oz. (48 seconds); 32 oz. (90 seconds). **Power:** 4 "AA" batteries. **Warranty:** Limited Lifetime Warranty from the manufacturer.

Steri-Pen System Water Purifier 11 oz.	**93930**	**$49.95**

CAMELBAK

CamelBak® H.A.W.G.® Water and Gear Pack

8133

The 1,220.5 cubic inch capacity pack features a 100 oz. water pack. The OMEGA™ Reservoir makes filling and cleaning the water pack easy, and the closed cell insulation and neoprene tube cover keep water cool for hours. An Independent Suspension Harness ensures comfort even when traveling over intense terrain. Also features ASIPS antennae ports for antennae of all sizes, multiple MOLLE/PAL attachment points, an Air Director™ ventilated back panel for keeping cool, and an exterior pocket for storing small gear such as hand-held radios or tools. Constructed of abrasion-resistant 500D Cordura®. **Capacity:** 1,220.5 cubic inches; water pack, 100 oz. (3.0 liters). **Dimensions:** 19″ x 12″ x 6″.

CamelBak H.A.W.G. Water and Gear Pack, Black	3 lbs.	**35947**	**$155.25**
		5+	**$143.50**
CamelBak H.A.W.G. Water and Gear Pack, Army Camo	3 lbs.	**35954**	**$160.25**
		5+	**$148.25**

CAMELBAK

CamelBak® Armorbak™ Hydration Pack

3910

Designed specifically to attach to the back of the IOTV, MTV or any other vest that offers a MOLLE/PAL back panel. Quick Attach Pressure Straps increase the flow from the low profile reservoir and stabilize the load. Other features include an easy-to-fill and clean wide-mouth OMEGA® opening, rugged and durable Water Beast™ material, leak-proof screw-cap, insulated PureFlow™ tube, patented Big Bite™ Valve, HydroLink™ Exit Port and Drink Port, HydroLock™ one-handed flow control, and a low-profile 102 oz. reservoir for reduced profile in tight areas and riding in vehicles. Covered with a lightweight and durable 500D Cordura® Fabric. Lifetime guarantee from the manufacturer. **Dimensions:** 16″ x 10″ x 3″. **Capacity:** 102 oz. (3.1 liters). **Weight:** 1.1 lbs. (empty reservoir).

Armorbak Hydration Pack	1 lb.	**93476**	**$72.25**

CAMELBAK

CamelBak® HydroBak™ Water Pack

8132

This versatile hydration system features a 50 oz. capacity and a comfortable, ergonomic design. The rugged OMEGA™ HydroTanium™ reservoir is backed by a lifetime warranty. Use the Big Bite™ valve for easy access to your water – just bite and sip. The closed-cell insulation keeps water cool or warm for hours, and an external zippered pocket provides convenient storage. **Color:** Black. **Capacity:** 50 oz. (1.5 liters). **Dimensions:** 13.6″ x 8.5″ x 1.8″.

CamelBak HydroBak Water Pack	12 oz.	**93257**	**$46.25**
		5+	**$44.25**

CAMELBAK

CamelBak® WaterMaster™ Water Pack

2090

The WaterMaster offers a 70 oz. capacity, and the closed cell insulation keeps water cool or warm for hours. The tough Water Beast reservoir and low-profile fill handle make refills easy. An insulated bite valve cover prevents contamination. A break-away harness and sternum strap allow the water pack to pull away from your body if the pack gets caught in rotating machinery. The adjustable shoulder straps feature a Velcro® attachment for rolling up and securing excess strap length. **Color:** Grey. **Capacity:** 70 oz. (2 liters). **Dimensions:** 17.5″ x 8.75″ x 1″.

CamelBak WaterMaster Water Pack	1 lb.	**93246**	**$58.25**
		5+	**$54.95**

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CAMELBAK

CamelBak® B.F.M Hydration Pack

2977

Manufacturer's Warranty Lifetime

CamelBak's biggest system at 45L+ keeps you mobile, comfortable and efficient on even the most intense missions. Features include an easy-to-fill and clean wide-mouth OMEGA® opening; rugged and durable Water Beast™ material; leak-proof screw-cap, insulated PureFlow™ tube; patented Big Bite™ Valve; HydroLink™ Exit Port and Drink Port; HydroLock™ one-handed flow control; ASIPS Radio attachment points to hold comms securely with dual antenna ports; a glasses, goggles and NVG pocket with external access; and multiple drink tube exit ports - for routing drink tube over the shoulder or under an arm. Made of lightweight, durable 500D Cordura® Fabric. Comes with a lifetime guarantee from the manufacturer.

Dimensions: 21″ x 20″ x 14″. **Capacity:** 100 oz. **Volume:** 2,929 cu. in. (cargo only); 3,112 cu. in. (Total).

B.F.M Hydration Pack, Black	5 lbs.	**93224**	**$229.50**
B.F.M Hydration Pack, Camo - Meets US Military standards for Near Infrared Reflectance (NIR).	5 lbs.	**93225**	**$247.50**

CAMELBAK

CamelBak® Ambush™ Hydration Pack

2976

Manufacturer's Warranty Lifetime

This low-profile hydration pack features a sleek design for excellent maneuverability in the field. External fill access allows for fast, easy refills without removing the pack, and multiple drink tube exit ports enable you to route the drink tube over your shoulder or under your arm. Top and bottom external zippered pockets are ideal for storing essential gear. Side-release shoulder straps ensure rapid removal. Constructed of lightweight yet durable 500D Cordura® fabric. Lifetime warranty from the manufacturer.

CamelBak Ambush Hydration Pack, Black, Features 100 oz. Mil Spec Antidote™ reservoir with Quick Link™ system. Dimensions: 16″ x 10″ x 6″.	2 lbs.	**93203**	**$92.95**
CamelBak Ambush Hydration Pack, Camo, Features 102 oz. OMEGA® Water Beast™ reservoir with HydroLink exit port. Dimensions: 16″ x 10″ x 5.5″.	2 lbs.	**93202**	**$97.25**

CamelBak® Cleaning Kit

2981

Keep your CamelBak clean with this handy kit! Includes a reservoir brush, a tube brush, two fast-acting cleaning tablets, and a reservoir dryer/hanger. Cleaning tablets work in just 5 minutes.

CamelBak Cleaning Kit 8 oz.		**93207**	**$18.95**
Cleaning Tablets, Pack of 8 1 oz.		**93204**	**$11.75**

G.I. Style Canteen

6641

Made of plastic, this canteen is odor-free and has a screw-on cap. Using the optional insulated cover (sold separately), the canteen can be attached to a belt.

1-Quart Canteen 6 oz.		**93271**	**$5.70**
		10+	**$4.95**
Insulated Canteen Cover, Rugged, insulated nylon cover features two metal belt keepers and a small pocket on the side. 4 oz.		**93270**	**$5.75**
		10+	**$5.20**
Nylon Pistol Belt, 2-1/4″W, Up to 46″ Waist 10 oz.		**93201**	**$8.25**
		10+	**$7.95**

CAMELBAK

Manufacturer's Warranty Lifetime

CamelBak® Mil Spec Antidote™ Reservoir

2980

Redefines the ultimate delivery system for your water supply and provides maximum adaptability. Features include a Quick Link™ Exit Port and QL HydroLock™ Bite Valve Adapter; a large fill opening with air-light 1/4 turn open/close for quick, secure seal that can't be over-tightened; low-profile, baffled design reduces reservoir stack and maximizes stability; easy, one-handed on/off water flow on drink tube; and an insulated drink tube cover for protection from harmful UV rays and abrasion. Backed by a lifetime guarantee from CamelBak.

Camelbak Antidote Reservoir, 70 oz. 13 oz.		**93268**	**$43.95**
Camelbak Antidote Reservoir, 100 oz. 13 oz.		**93269**	**$45.95**

CAMELBAK

Manufacturer's Warranty Lifetime

Camelbak® Stealth Hydration Pack

2979

Ideal for tight spaces or cramped environments, this low profile design includes a 72 oz. OMEGA® Water Beast reservoir with HydroLink Exit Port. Closed cell insulation and neoprene tube cover keeps water cool for hours and the ventilated back panel keeps you comfortable and cool all day. Other features include a leak-proof screw-cap; insulated PureFlow™ tube; patented Big Bite™ Valve; HydroLink™ Exit Port and Drink Port; HydroLock™ one-handed flow control; tough, abrasion-resistant 1000D Cordura® exterior; convenient Velcro strap management; and a sternum strap for added stability. Backed by a lifetime guarantee from the manufacturer.

Dimensions: 13″ x 11.5″ x 3.5″. **Capacity:** 72 oz. **Total Volume:** 128 cu. in.

Stealth Hydration Pack, Black 1 lb.		**93254**	**$83.50**

CAMELBAK

Manufacturer's Warranty Lifetime

CamelBak® M.U.L.E.® Hydration Pack

2978

Offering convenience and functionality, this pack features a 100 oz. capacity OMEGA® Water Beast™ reservoir and an insulated reservoir compartment designed for easy access without removing the pack. Multiple drink tube exit ports let you route the tube over your shoulder or under your arm. The external goggle/glasses pocket provides fast access to your gear. An Air Director™ back panel ensures excellent ventilation, and side-release shoulder straps allow for rapid removal. Constructed of 500D Cordura® fabric. Lifetime warranty from the manufacturer.

Color: Black. **Capacity (Reservoir):** 100 oz. **Volume:** Cargo only, 488.2 cu. in.; Total volume, 671.2 cu. in. **Dimensions:** 17″ x 9″ x 7″.

CamelBak M.U.L.E. Hydration Pack 2 lbs.		**93263**	**$116.95**

Desert Canteen

6038

Made in the classic western style.

Blanket-covered, poly-lined canteen features an adjustable web shoulder strap and an insulated screw-on cap with tether. Meets U.S. government specifications.

2 Quart Canteen 1 lb.		**31064**	**$6.95**
		6+	**$6.25**
4 Quart Canteen 1 lb.		**31065**	**$10.25**
		6+	**$9.25**

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External and Internal Frame Packs
pages 676 and 677

GERBER

Gerber® E-Tool Folding Shovel
8402

Rugged and lightweight, this folding shovel is durable, easy to carry, and designed to stand up to almost anything you can put it through. Blade is made from Boron steel and is serrated on one edge and sharpened on the other.

Overall length: 23.39″. **Closed length:** 9.37″.

Gerber E-Tool Folding Shovel 3 lbs.	**33820**	**$46.95**
	3+	**$44.95**

Sight-Grid Signal Mirror
3629

Visible for miles, even on hazy days.

A built-in "sight-grid" lets you aim reflected sunlight exactly where you want it. Catch the eye of field personnel or searching aircraft, ships or ground parties. Surveyors – set up and locate EDM and other instruments. Foresters – visual reference of field personnel. Safety – include in field first aid kits. Thick laminated plate glass, 3″ x 5″ x 1/4″.

Sight-Grid Signal Mirror 5 oz.	**84999**	**$12.75**
	10+	**$9.95**

E-Z Up Pop-Up Canopy
7532

Manufacturer's Warranty 2 Year

Fast and easy set-up for protection from the sun. 10 ft. or 12 ft. Shelter (at the base) with angled legs and an open cathedral type ceiling. Other features include white powder-coated steel frame and 150 x 150 canopy fabric with silver undercoating blocks 99% of UV rays and is Fire Rated to CPAI-84 standards. Complete with roller storage bag, 4 stakes and a 2-year warranty from the manufacturer.

10′ x 10′ Vista		34 lbs.	**35420**	**$117.95**
12′ x 12′ Vista	X	44 lbs.	**35421**	**$140.95**
10′ Wall for 35420 - Easy-to-install side wall panel attaches to poles and roof structure of canopy to provide privacy and additional shelter from the weather.		1 lb.	**35393**	**$26.00**

Folding Tripod Stool
6678

Compact folding stool goes anywhere!

This folding stool has an adjustable shoulder strap for easy carrying. Powder coated black steel tube legs. Seat of stool constructed of blue nylon.

Weight Capacity: 230 lbs. **Dimensions:** 13″ x 13″ x 17″ (opened); 2-1/3″ x 2-1/3″ x 23″ (closed).

Folding Tripod Stool 3 lbs.	**34273**	**$12.75**
	6+	**$11.75**

New! Type III Nylon Paracord
3263

100′

Ideal for any survival situation, this paracord is 550 lb. tested, has a 7 Strand Core and is 100% Nylon with a diameter of 5/32 Inches. Made in the USA. GSA compliant.

Black, 100′ 7 oz.	**83296**	**$8.50**
	5+	**$7.50**
Olive, 100′ 8 oz.	**83297**	**$8.95**
	5+	**$7.50**
Safety Orange, 100′ 7 oz.	**83298**	**$8.95**
	5+	**$7.50**

Manufacturer's Warranty 1 Year

Storm Lighter
4155

Lightweight, windproof & waterproof!

Ideal for the outdoorsman. The Storm has a rugged plastic case with an o-ring waterproof seal. Features include a key ring holder, a flame adjustment screw, and a refill valve. Backed by a manufacturer's one-year warranty. Shipped with butane. Color may vary. **Turbo flame:** 2500°F.

Storm Lighter 4 oz.	I R	**37030**	**$16.50**

Chainmate Camping and Survival Saw
7361

Portable, lightweight and built to last, these survival saws are ideal for gathering firewood fast or clearing trails! Carbon steel teeth cut quickly and easily. Available in 24″, 36″ or 48″ chain lengths. Instructions included.

24″ Camping and Survival Saw 7 oz.	**81070**	**$20.25**
36″ Camping and Survival Saw 7 oz.	**81071**	**$28.50**
48″ Camping and Survival Saw 10 oz.	**81072**	**$37.25**

X Oversize. Ships UPS 70 lb. rate. See Shipping Information for details.
I Extra Charge if Shipped by International Air. See Shipping Information for details.
R Cannot ship by domestic air.

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Coleman® LED Quad Lantern
7243

Lights up with twenty-four 5mm white LEDs for brilliant, intense light. Four removable sections each feature their own on/off switch, 6 LEDs, and contain NiMH rechargeable batteries which recharge off the base. Carry handle and master on/off button on top.

Lumens: 190. **Light Range:** 26′. **Power:** 8 D cell batteries (not included). **Run Time (approx.):** 75 hours, each section runs 1.5 hours independently. **Manufacturer's Warranty:** Limited 5-year. **Dimensions:** 11.7″H X 6.5″W.

LED Quad Lantern	4 lbs.	**02163**	**$79.95**
D cell Alkaline Battery Single	6 oz.	**02180**	**$2.45**

Wind 'N Go Mini LED Lantern
4451

Never requires batteries!

An ideal source of ambient light, this lantern provides about 60 minutes of light after just 1 minute of winding. A carabiner allows you to hang the lantern from a tree branch, inside of a tent, or a string line. Measuring just 6.5″ tall, the lantern stores easily.

Wind 'N Go Mini LED Lantern	11 oz.	**02061**	**$20.75**
		10+	**$19.75**

New! ThermaCELL® Outdoor Lantern
7900

This versatile lantern provides a convenient source of light while also effectively repelling biting insects! A butane cartridge heats an insect repellent mat to release allethrin, a synthetic copy of pyrethrum, into the air and provide a 15′ x 15′ odorless zone of protection. 8 LEDs provide low or high illumination, and the lantern is powered by 4 AA batteries (not included). The lantern features shatterproof side panels and an easy-grip handle. A butane cartridge (lasts up to 12 hours) and 3 insect repellent mats (each lasting up to 4 hours) are included. 7.5″H x 5″W.

ThermaCELL Outdoor Lantern	ⓘ R10	2 lbs.	**25430**	**$29.95**

Note: Cannot ship by domestic air

ALPS Mountaineering Rectangular Dining Table
8505

Aluminum fold-up top with sturdy x-frame. Collapses quickly and easily into its included carry/storage bag for convenient transport. **Table Dimensions:** 28″ wide x 43″ long x 28″ tall. **Carry Bag Dimensions:** 5″ x 7″ x 43″. **Weight:** 12 lbs.

Rectangular Dining Table	12 lbs.	**34280**	**$79.95**

ALPS Mountaineering Chip Table
2985

Designed for fast setup!

This portable table features buckles at each corner that allow you to easily adjust tautness. Also features a side-pocket organizer and four built-in beverage holders. Constructed of 600D polyester fabric. 8″ x 36″ Shoulder carry bag included. **Color:** Green. **Dimensions:** 27″W x 27″L x 26″H. **Weight:** 6 lbs.

ALPS Mountaineering Chip Table	6 lbs.	**34276**	**$27.95**

Waterproof Polyethylene Tarps
6279

These waterproof tarps feature polyethylene rope sewn in the hem on all sides for extra reinforcement, as well as heavy-duty aluminum grommets every three feet and at each corner for convenience. Easy to handle, tear-resistant, mildew-resistant, and washable.

Standard Tarps

Constructed of super strong, coated 8 x 20 weave polyethylene that will not crack in temperatures as low as -20°F. Blue.

Heavy-Duty Tarps

Constructed of durable 1000 denier polyethylene that will not crack in temperatures as low as -20°F. These 12 x 12 cross weave tarps are also reinforced at each corner with a plastic bar for ease of handling and added strength. Colors may vary.

Tarp	Weight	10′ x 12′	$	Weight	10′ x 20′	$	Weight	12′ x 16′	$	Weight	20′ x 20′	$
Standard	2 lbs.	**35551**	**$5.50**	3 lbs.	**35552**	**$8.50**	3 lbs.	**35553**	**$8.25**	5 lbs.	**35554**	**$16.75**
Heavy-Duty	3 lbs.	**35618**	**$10.25**	5 lbs.	**35619**	**$17.25**	5 lbs.	**35621**	**$16.50**	11 lbs.	**35620**	**$32.75**

R10 Restricted. Cannot be sold in CA.
ⓘ Extra Charge if Shipped by International Air.

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Fire Ring
3768

Provides 300 sq. in. of cooking space!

This durable ground-mounted grill features a flip-up grate with cool spring handles on each side. The 7″H x 30″ dia. ring is constructed of 3/16″ thick steel and is painted with non-toxic black enamel that is heat- and rust-resistant. The 15″ x 20″ grate consists of 1/2″ steel rods welded on 1″ centers. A 1″ formed flange around the top of the fire ring provides extra strength. Two mounting options available. The fire ring with tilt back staples can be mounted on concrete using two 1/2″ dia. staple-type anchor rods which allow the unit to tilt for easy clean up. The model with three spade anchor stakes allows for stationary mounting.

Fire Ring with Tilt Back Staples	F	69 lbs.	**36063**	**$171.25**
			3+	**$161.95**
Fire Ring with Spade Anchors	F	74 lbs.	**36064**	**$187.95**
			3+	**$170.95**

Wheelchair Accessible Fire Ring

This 18″H ADA-compliant fire ring offers the same features as the above models. Fill the bottom of the fire ring with 9″ to 12″ of sand or gravel. Three spade anchors included.

Wheelchair Accessible Fire Ring	F	130 lbs.	**36065**	**$273.25**

Pedestal Grill
3769

A classic design with anti-theft features!

This grill rotates 360° on a 41″H x 2-3/8″ dia. theft-resistant pedestal. The cooking grate offers 300 sq. in. of cooking space, adjusts to four heights using anti-theft adjustment slots, and features 1/2″ steel bars welded on 1″ centers. Handles on each side of the grill feature heavy duty cool spring grips. Constructed of 3/16″ thick steel with continuous weld type construction, the 20″W x 15″D x 10″H fire box features rounded corners and drain holes. A formed ash lip helps keep coals in the box. The black enamel finish is non-toxic as well as heat- and rust-resistant.

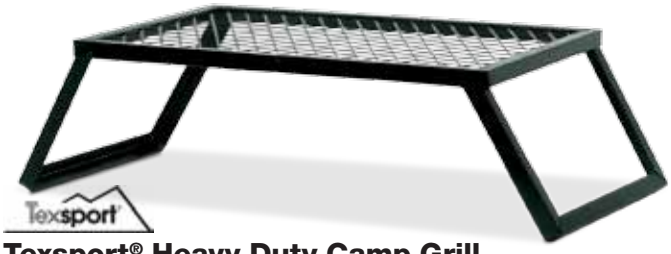
Pedestal Grill	79 lbs.	**36066**	**$172.75**
		3+	**$152.50**

MSR Whisperlite™ International Multi-Fuel Camp Stove
6122

Operates on a variety of fuels!

In addition to white gas, this tough, compact stove burns kerosene and auto gas. It features a large diameter fuel line to burn poor-quality fuels with less maintenance and fewer cleanings, a fiberglass priming wick that allows faster priming and lighting, and is field maintainable. Fuel bottles are also available separately.

MSR Whisperlite International Multi-Fuel Camp Stove	1 lb.	**35405**	**$99.95**
30 oz. Fuel Bottle, 10″H x 2-3/4″ dia.	8 oz.	**35409**	**$21.95**



Texsport® Heavy Duty Camp Grill
8452

This handy grill is welded of high quality, 13-gauge expanded metal with a large cooking surface measuring 16″ x 24″. The one-piece construction also features legs that fold underneath for compact storage.

Texsport Heavy Duty Camp Grill	9 lbs.	**36067**	**$31.75**

F Ships Motor Freight. See Shipping Information for details.

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Bayou Classic Square Propane Burner
7842

This square propane burner features a 16″ x 16″ large cooking surface. Features include a 12-3/4″ heavy-duty steel frame, a 6″ cast iron fry burner, a needle valve for complete control over the amount of flame, and a 36″ stainless steel braided hose. Includes a 10 PSI regulator, which reaches 55,000 BTUs.

Square Propane Burner
20 lbs. **36909** **$52.25**

Bayou Classic Propane Burners
7841

Wide leg design cooking frames provide stability when cooking using large stock pots. Choose from dual or single burner styles.

Dual High Pressure Burner

Capable of supporting two 60 qt. capacity stock pots. Features include two BG10 high pressure cast propane burners, a 15 PSI regulator kit which reaches 120,000 BTUs, two 14″ cooking surfaces (31″ Total Length), separate brass control valves for individual flame adjustment, a 36″ stainless braided hose, and 360° windscreen protection. 13″ Tall welded steel frame has extension legs which extend the height to 25″.

Dual High Pressure Burner
40 lbs. **36907** **$105.75**

Single High Pressure Burner

20 PSI Regulator with brass control valve produces up to 185,000 BTUs of heat out of a cast iron element. The 12-1/2″ Tall welded steel frame has a 14″Dia. cooking surface suitable for up to 100 qt. capacity stock pots. 48″ Stainless steel braided hose.

Single High Pressure Burner
16 lbs. **36908** **$50.50**

Bayou Classic 42 Qt. Steamer
7838

This 16 gauge aluminum stock pot has an indention in the bottom which holds the included perforated, stock pot basket off the bottom giving you 3″ in the bottom for your liquid for perfect steaming. Other features include a vented lid and heavy duty riveted handles. The stockpot measures 15-1/2″ x 16″, and the basket measures 14″ x 12″.

42 Qt. Steamer
9 lbs. **36904** **$68.75**

Bayou Classic® 30 Qt. Turkey Fryer
7836

Ideal for frying turkey! 30-qt. Aluminum stockpot measures 11″D x 15.5″H. Made of 18 Gauge aluminum and features a vented lid, a perforated poultry rack, a lift hook, and a 1 oz. trial seasoning injector. 12″ Thermometer is also included and has a measuring range of 50°F to 750°F.

30 Qt. Turkey Fryer
8 lbs. **36902** **$42.00**

Shown with 36900 Pot & Basket

Bayou Classic® 19″ Outdoor Fish Cooker
7835

This aluminum fish cooker has a high pressure burner with a 10 PSI adjustable regulator. 19.25″ Steel frame with single bolt leg attachment features 360° windscreen protection and a 14″ diameter cooking surface that holds the included 10-qt. aluminum fry pot and basket. A 5″ thermometer with a range of 50°F to 750°F is also included. The 36″ stainless braided hose connects to your gas supply.

19″ Fish Cooker
17 lbs. **36901** **$55.25**

Bayou Classic 4-Gallon Fryer
7837

The V-bottom design keeps base oil temperature cooler than the frying temperature so batter does not burn and oil stays clean - allowing it to be used for more than one cooking. Cooking is also efficient because the heat from the propane flows through the tube in the back and runs all the way through the fryer - rolling the oil and heating it to a perfect temperature while using less propane. Plus, the actual burner is not loud compared to jet burners or other propane burners. Constructed of stainless steel and features two stainless steel baskets with cool touch handles, temperature gauge, drain valve, extension legs, and 10 PSI preset regulator with stainless steel braided hose.

4-Gallon Fryer
70 lbs. **36910** **$284.50**

Bayou Classic 2.5-Gallon Fryer
7837

This stainless, 2.5 gallon fryer can be used free-standing or on a table top thanks to the removable legs! The V-bottom design keeps base oil temperature cooler than at the surface so batter does not scorch, keeping oil cleaner and lasting longer. Other features include a thermometer, drain valve, high pressure preset regulator with brass control valve and stainless braided hose, and a stainless mesh basket measuring 7.5″ x 11″ x 3.5″. Uses propane.

Bayou Classic 2.5-Gallon Fryer
40 lbs. **36911** **$249.95**

Bayou Classic 10 Qt. Aluminum Pot & Basket
7834

This aluminum fry pot is 12″D x 5″H. Made of 18 Gauge aluminum. Includes a perforated basket with long handle for safely lifting in and out.

Aluminum Pot & Basket
3 lbs. **36900** **$17.50**

Pelican™ ProGear™ Coolers page 660

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Eureka!

Eureka! Taron 2 Tent
2920

Manufacturer's Warranty Lifetime

Features

- V3 Enhanced Tent System: Venting, Volume, Versatility.
- 2-pole aluminum dome with fly pole.
- 1 hooded vent in fly.
- 4 total pockets: 2 on front wall panel plus 1 on each side panel.
- Full V3 front vestibule plus rear stash area.
- Gear loft included, 13″ x 25″.

	Sleeps	Floor Size	Min. Weight
Taron 2	2	7′4″ x 4′2″	4 lbs. 14 oz.

Specifications	
Floor Area	30.6 sq. ft.
Center Height	3′5″
Doors	1
Vents	1 hooded vent fly
Pack Size	5″ x 18″

Eureka! Taron 2 Tent	7 lbs.	**35220**	**$179.90**

Estwing Rubber Mallet
page 199

Eureka! Taron 3 Tent
2920

Manufacturer's Warranty Lifetime

Features

- V3 Enhanced Tent System: Venting, Volume, Versatility.
- 2-pole aluminum dome with fly pole.
- 2 hooded vents in fly.
- 6 total pockets: 2 on front wall panel, 2 on rear wall panel plus 1 on each side panel.
- Full V3 front vestibule plus rear vestibule.
- Gear loft included, 19″ x 26″.

	Sleeps	Floor Size	Min. Weight
Taron 3	3	7′4″ x 5′6″	6 lbs. 4 oz.

Specifications	
Floor Area	40.3 sq. ft.
Center Height	3′10″
Doors	2
Vents	2 hooded vents in fly
Pack Size	6.5″ x 18″

Eureka! Taron 3 Tent	8 lbs.	**35221**	**$219.90**

Eureka!® Apex 2 FG Tent
7573

Manufacturer's Warranty Lifetime

Features

- 2-pole rectangular dome tent features 2 interior storage pockets.
- Fly with vestibule wings shelter doors from the elements.
- 2 over-sized, side-opening D-style doors with zippered windows for ease of access.
- Zippered window in doors opens for excellent visibility and controlled ventilation.
- Freestanding shock-corded 8.5 mm fiberglass frame with clips and post and grommet assembly makes set-up easy.
- Gear loft included.

	Sleeps	Floor Size	Min. Weight
Apex 2	2	7′6″ x 4′11″	5 lbs. 8 oz.

Specifications	
Floor Area	36.5 sq. ft.
Center Height	3′ 10″
Doors	2
Windows	2
Vents	2 mesh ceiling panels + windows
Pack Size	5″ x 24″

Apex 2 FG Tent	7 lbs.	**35486**	**$103.50**
Gear Loft	3 oz.	**35512**	**$12.95**
Floor Saver	12 oz.	**35532**	**$14.95**

The SYSTEM™ Complete Portable Toilet System
2564

The perfect answer when nature calls!

This compact dry toilet system provides a sanitary, odorless method for packing out and disposing of liquid and solid waste. The complete SYSTEM™ includes the PETT™ (Portable Environmental Toilet), the PUP™ (Portable Utility Pop-Up Tent), 15 WAG™ (Waste Alleviation and Gelling) bags, and a TOTE™ backpack to transport the entire system. Constructed of rugged, high-impact, UV-stabilized thermoplastic, the PETT is the same height as a standard toilet. Easy to assemble, simply snap the briefcase-sized toilet's tripod legs in place. Once the toilet is set up, remove the contents of the WAG bag. Each bag contains a waste bag, zip-close containment bag, toilet paper, and a sanitizing wipe. The bag system meets EPA Group II waste disposal standards. The waste bag fits securely in the center of the toilet seat and contains non-toxic powder which instantly gels waste, eliminates odor, and begins breaking down waste on contact. After use, place the waste bag in the zip-close disposal bag and then dispose of in a traditional trash container. The PUP provides privacy during use and features a zip-close door, three interior windows with screens, a storage pocket, and Velcro flap in the ceiling. Constructed of flame-retardant Taffeta 10C, the tent stands 6′6″ high and measures 4′ x 4′ at its base. Pack away the entire system in the TOTE backpack and even carry used bags in the special expansion pocket.

The SYSTEM Complete Portable Toilet System	19 lbs.	**35000**	**$219.95**
WAG Bag Waste Kits, pack of 100	16 lbs.	**35002**	**$234.95**

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Eureka!

Eureka!® Titan Tent
6057

Features

- Freestanding rectangular 4 pole umbrella hub-style tent with two rooms
- Near vertical walls with additional pull-outs maximize useable interior space
- Removeable zippered divider creates 2 large rooms for privacy
- Fly is hooded over all 4 sides for all weather protection
- 6 windows provide ventilation in warmer conditions
- Convenience features include corner "closet", rings for hangers, clothesline rings at all eaves & mesh storage pockets on ceiling panels

Manufacturer's Warranty Lifetime

	Sleeps	Floor Size	Min. Weight
Titan	8	9′6″ x 13′6″	31 lbs. 15 oz.

Specifications	
Floor Area	128.25 sq. ft.
Center Height	7′
Frame	0.875″ – 1.0″ aluminum 4 pole umbrella hub + 9.5mm/12.7mm fiberglass
Fly	75D Stormshield® polyester, 1200mm
Wall	70D nylon taffeta, 1200mm
Floor	210D nylon oxford, 1500mm
Doors	2 with Hi/Low Ventilation
Windows	6
Pack Size	12″ x 29″

Eureka! Titan Tent	36 lbs.	**35414**	**$672.75**
Gear Loft for Titan	3 oz.	**35415**	**$10.50**
Floor Saver	1 lb.	**35533**	**$18.75**

New! Eureka!® Tetragon 8 Tent
7898

Features

- 3-Season Tent
- 2-Pole Modified Rectangular Dome Design
- Fiberglass Frame
- Clips, Pole Sleeves, Ring & Pin Set-Up
- 75D 185T StormShield® Polyester 800mm Fly
- 75D 185T Polyester 800mm Walls
- 50D Polyester No-See-Um Mesh
- 75D 210T Polyester 800mm Floor
- 2 interior storage pockets and a gear loft
- Snorkel Blue/Cement/Dark Shadow Color

Manufacturer's Warranty Lifetime

	Sleeps	Floor Size	Min. Weight
Tetragon 8	8	12′ x 10′	20 lbs., 2 oz.

Specifications	
	Tetragon 8
Area	120 sq. ft.
Frame	12.7mm Fiberglass
Doors	2
Windows	4 (1 in each door, 1 in front and rear panels)
Vents	Full mesh roof plus 2 cross-flow side vents
Pack Size	8″ x 30″
Weight	20 lbs., 2 oz.

Eureka! Tetragon 8 Tent	25 lbs.	**35447**	**$279.95**
Floor Saver for Eureka! Tetragon	2 lbs.	**34441**	**$23.75**

New! Eureka!® Tetragon 4 Tent
7897

Common Features

- 3-Season Tent
- 2-Pole Modified Rectangular Dome Design
- Fiberglass Frame
- Clips, Pole Sleeves, Ring & Pin Set-Up
- 75D 185T StormShield® Polyester 800mm Fly
- 75D 185T Polyester 800mm Walls
- 50D Polyester No-See-Um Mesh.
- 75D 210T Polyester 800mm Floor
- 2 interior storage pockets and a gear loft
- Snorkel Blue/Cement/Dark Shadow

Manufacturer's Warranty Lifetime

	Sleeps	Floor Size	Min. Weight
Tetragon 4	4	8′6″ x 7′6″	9 lbs., 3 oz.

Specifications	
	Tetragon 4
Area	64 sq. ft.
Frame	8.5/9.5mm Fiberglass
Doors	1
Windows	2 (1 in door, 1 in rear panel)
Vents	full mesh roof
Pack Size	5″ x 24″
Weight	9 lbs., 13 oz.

Eureka! Tetragon 4 Tent	11 lbs.	**35464**	**$139.95**

New! Eureka!® Tetragon 2 Tent
7896

Common Features

- 3-Season Tent
- 2-Pole Modified Rectangular Dome Design
- Fiberglass Frame
- Clips, Pole Sleeves, Ring & Pin Set-Up
- 75D 185T StormShield® Polyester 800mm Fly
- 75D 185T Polyester 800mm Walls
- 50D Polyester No-See-Um Mesh
- 75D 210T Polyester 800mm Floor
- 2 Interior storage pockets and a gear loft
- Snorkel Blue/Cement/Dark Shadow Color

Manufacturer's Warranty Lifetime

	Sleeps	Floor Size	Min. Weight
Tetragon 2	2	7′ x 5′	5 lbs., 4 oz.

Specifications	
	Tetragon 2
Area	35 sq. ft.
Frame	6/7.9mm Fiberglass.
Doors	1
Windows	2 (1 in door, 1 in rear panel)
Vents	Full mesh roof
Pack Size	4″ x 24″
Weight	5 lbs., 4 oz.

Eureka! Tetragon 2 Tent	7 lbs.	**35465**	**$89.95**

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Eureka!

Manufacturer's Warranty Limited Lifetime

Eureka!® Timberline® SQ 4XT Tent

7304

	Sleeps	Floor Size	Min. Weight
SQ 4XT	4	7′4″ x 8′8″	9 lbs. 13 oz.

Features

- Proprietary Sequoia A-frame with spreader pole creates internal volume for excellent livability.
- 2 large vertical D-style doors with Hi/Low venting offer ease of access.
- 2 zippered windows in doors open for excellent visibility and controlled ventilation.
- Fly creating vestibule can be configured in multiple ways, and vestibule wings shelter second door.
- Freestanding frame with clips and post and grommet assembly make set up easy.

Specifications

Floor Area	60.8 sq. ft.
Center Height	4′9″
Vestibule Area	15.3 sq. ft.
Doors	2 with Hi/Low venting
Windows	2
Pack Size	7″ x 26″

Eureka! Timberline SQ 4XT Tent 11 lbs.	**35442**	**$299.90**
Gear Loft 3 oz.	**35528**	**$13.50**
Floor Saver 1 lb.	**35533**	**$18.75**

Eureka!

Manufacturer's Warranty Limited Lifetime

Eureka!® Timberline® SQ Outfitter 4 Tent

7303

	Sleeps	Floor Size	Min. Weight
SQ Outfitter 4	4	7′1″ x 8′7″	9 lbs. 14 oz.

Features

- Proprietary Sequoia A-frame and updated durable materials provide unmatched strength, stability, ease of entry, and increased internal volume.
- Large vertical D-style door with Hi/Low venting offers ease of access and controlled ventilation.
- 2 zippered windows in doors open for excellent visibility and controlled ventilation.
- Fly creates vestibule wings that shelter door and window during inclement weather.
- Freestanding frame with clips and post and grommet assembly make set up easy.

Specifications

Floor Area	60.8 sq. ft.
Center Height	4′9″
Doors	1 with Hi/Low venting
Windows	2
Pack Size	7″ x 25″

Eureka! Timberline SQ Outfitter 4 Tent 12 lbs.	**35441**	**$379.90**
Gear Loft 3 oz.	**35528**	**$13.50**
Floor Saver 1 lb.	**35533**	**$18.75**
Vestibule 1 lb.	**35531**	**$56.50**

Eureka!

Manufacturer's Warranty Limited Lifetime

New! Eureka!® Spitfire 1 Tent

3879

	Sleeps	Floor Size	Min. Weight
Spitfire 1	1	9′ x 3′6″ x 2′2″	2 lbs., 12 oz.

Features

- 3-Season Tent
- 2-Pole Hoop Design
- DAC Featherlite™ Aluminum Frame.
- Post & Grommet, Clips Set-Up
- 75D 190T Polyester Taffeta 1800mm Fly
- 75D 190T Polyester Taffeta Breathable Walls
- 40D Polyester No-See-Um Mesh
- 75D 190T Polyester Taffeta 1800mm Floor
- Amenity Storage Pockets
- Lime Punch/Mineral Grey Color

Specifications

	Spitfire 1
Floor Area	18.1 sq. ft.
Frame	DAC 8.8 mm Featherlite
Doors	1
Vestibules	1: 4.4 sq. ft.
Vents	1 Hooded in Fly
Pack Size	5″ x 21″
Weight	2 lbs., 12 oz.

Eureka! Spitfire 1 Tent 4 lbs.	**35466**	**$139.90**

Kamp-Rite™ Tent Cot

2563

Versatile, roomy, and easy to set up!

Combining the comfort of a cot with the security of a tent, the Tent Cot keeps you 11″ off the ground. No assembly is required. Simply unfold and climb in! The sturdy Tent Cot is built to support 300 lbs. The no-see-um mesh doors and windows provide air flow while keeping insects out. Tie-up straps allow you to keep the doors and windows completely open if you prefer. The Tent Cot can also be folded flush for use as a full reclining cot and can be tilted at one end to transform it into a comfortable lounge chair. Carrying bag included. **Dimensions:** Fully open, 36″H x 30″W x 7′L; folds to 6″ thick.

Kamp-Rite Tent Cot	O	18 lbs.	**35345**	**$145.95**
Rain Fly		2 lbs.	**35346**	**$30.95**

O Oversize. Ships UPS 30 lb. rate. See Shipping Information for details.

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New! Atwater Carey® Double Circular Net
4853

With Built-In Insect Shield®

Built-in Insect Shield® permethrin insect repellent repels mosquitoes, ticks, flies, and fleas. Sets up over sleeping bags, double bed or cots. Features include circular fiberglass tubing, high visibility mesh, and fire-resistant nylon netting.

Atwater Carey Double Circular Net	R	15 oz.	**23461**	**$48.95**

New! Moskito Kakoon Hammock
4300

Providing a comfortable cocoon of protection against insects, this hammock features mesh netting supported by two fiberglass rods and a rugged guy line. The hammock offers parachute nylon construction, two storage pockets, and a two-way zipper. When the protective net is not needed, simply flip the hammock over. A built-in hanging rope makes setup easy.

Weight Limit: 250 lbs. **Overall Dimensions:** 54″W x 107″L.

Moskito Kakoon Hammock	2 lbs.	**35407**	**$54.90**

New! Atwater Carey® Sleep Screen Pop-up Net
4853

With Built-In Insect Shield®

This free-standing, pop-up sleep screen has Insect Shield® permethrin insect repellent built in for long-lasting, effective and convenient insect protection from mosquitoes, ticks, flies, and fleas. It sets up on the ground, over sleeping bags, double beds or cots. The snap together fiberglass poles support the high visibility, fire-resistant nylon mesh netting. **Size:** 8.8′L x 5.4′W.

Atwater Carey® Sleep Screen Pop-up Net	R	14 oz.	**23460**	**$48.95**

ALPS MOUNTAINEERING

ALPS Mountaineering Razor Fleece Sleeping Bag/Liner
2987

Lightweight and compressible, the Razor can be used as a sleeping bag liner to provide extra warmth in cold conditions or as a standalone bag in warmer weather. Works with mummy and rectangle style sleeping bags. Features a 210T polyester outer shell, fleece liner, and #5 separating zipper. Stuff sack included.

Dimensions: 32″x 80″. **Weight:** Bag, 1 lb. 10 oz.; Stuff Sack, 3 oz.

Razor Fleece Sleeping Bag/Liner	2 lbs.	**35507**	**$39.50**

ALPS MOUNTAINEERING

ALPS Mountaineering Crescent Lake Sleeping Bag
2988

Rated to 20°F

The TechLoft+ insulation in this bag consists of multi-hole, staple-length micro-denier fibers that have a siliconized finish to ensure maximum insulation, loft, and compactness. Features two-layer offset construction, contoured hood, insulated chest baffle, zipper baffle, and #8 separating zippers. Outer shell and liner made of 210T polyester. Stuff sack included.

Dimensions: 32″x 80″. **Weight:** Bag, 3 lbs. 12 oz.; Stuff Sack, 3 oz.

Crescent Lake Sleeping Bag	5 lbs.	**35503**	**$58.50**

ALPS MOUNTAINEERING

ALPS Mountaineering Desert Pine Sleeping Bag
2989

Rated to -20°F

Designed to provide maximum insulation, loft, and compactness, the TechLoft+ insulation in this bag features multi-hole, staple-length micro-denier fibers with a siliconized finish. Other features include two-layer offset construction, contoured hood, insulated chest baffle, zipper baffle, and #8 separating zippers. Outer shell made of 210T nylon ripstop and liner made of 210T polyester. Compression stuff sack included.

Dimensions: 32″x 80″. **Weight:** Bag, 6 lbs. 12 oz.; Stuff Sack, 3 oz.

Desert Pine Sleeping Bag, -20°F	9 lbs.	**35504**	**$90.75**

R Cannot be sold internationally

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Eureka!

New! Eureka!® Wild Basin Sleeping Bag

3715

Rated to 0° Fahrenheit

ThermaShield™ Premium Insulation is sandwiched between the durable 75D polyester ripstop shell and the 68D polyester taffeta liner providing outstanding warmth! Other features include a warm-to-touch "peached" polyester lining fabric, a #5 locking zipper, an inside "Stash Pocket", and a full-length draft tube with anti-snag webbing. A compression stuff sack is included.

Size: 84″ x 32″ x 20″. **Carry Weight:** 5.06 lbs.

Eureka! Wild Basin Sleeping Bag
7 lbs. **35472** **$78.75**

Eureka!

New! Eureka!® Cimarron Sleeping Bag

3716

Rated to 15° Fahrenheit

Insulated with ThermaShield™ Premium Insulation. Shell is made of durable 75D polyester ripstop and lined with 68D polyester taffeta. Other features include a #5 locking zipper, an internal pocket, and a full-length draft tube with anti-snag webbing. A compression stuff sack is included.

Size: Regular/R Zip. **Fits To:** 6′. **Carry Weight:** 4 lbs., 1 oz.

Eureka! Cimarron Sleeping Bag
6 lbs. **35473** **$69.50**

Slumberjack

Slumberjack® Latitude Sleeping Bag

8250

Rated to 20° Fahrenheit

Slumberloft HQ™ premium insulation provides excellent warmth while the double and triple offset, differential cut construction eliminates cold spots. The outer shell is made of polyester hex ripstop and the liner is made of polyester taffeta. Other features include a fully contoured hood with flip-over option, easy access drawcords, adjustable storm collar, insulated draft tube with anti-snag zipper protection, easy-grab pull tabs, and a trapezoid foot box. **Size:** 32″ x 82″.

Slumberjack Latitude 20° Sleeping Bag
5 lbs. **35522** **$64.50**

Eureka!

Eureka!® Cayuga Sleeping Bag

8508

Rated to 30° Fahrenheit

Comfortable and roomy, this rectangular sleeping bag features Eureka! ELOFT™ insulation, a cotton flannel liner, and insulated double draft tube lining around the zipper to keep cold air out. The bag features a durable 190T polyester taffeta shell and anti-snag tape to prevent the zipper from catching. Polyester compression stuff sack included. Rated to 30°F.

Size: 33″ x 80″. **Carry Weight:** 4.69 lbs.

Eureka! Cayuga Sleeping Bag
6 lbs. **35524** **$76.95**

Texsport

Texsport® Fleece Sleeping Bag/Liner

8453

Rated to 50° Fahrenheit

Ideal for use as a sleeping bag liner, this fleece sleeping bag offers warmth and durability. The bag features an all-around zipper, and two bags can be zipped together to double the size. Machine washable. Mesh storage bag included. **Dimensions:** 75″ x 32″. **Note:** Colors may vary.

Texsport Fleece
Sleeping Bag/Liner 1 lb. **35525** **$14.75**

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Texsport® Jumbo Folding Camp Cot
7350

This oversized cot features a water-resistant coated nylon cover and a heavy-duty black aluminum frame. Nylon carry/storage bag included.

Color: Forest Green. **Weight Capacity:** 300 lbs. **Dimensions:** 82″x 31″x 18″.

Jumbo Folding Camp Cot	16 lbs.	**35384**	**$76.95**
		2+	**$72.25**

Slumberjack® Big Cot
4023

With an extra wide and extra long rest area, this oversized cot offers superior comfort. The reinforced aluminum frame and legs provide excellent strength. The cot also features steel cross supports at each end and a sewn-in organizer. Cover is constructed of 600D polyester fabric. Polyester tote bag included.

Weight capacity: 325 lbs. **Dimensions:** 32″W x 82″L x 18″H.

Slumberjack Big Cot	22 lbs.	**35385**	**$99.95**
		2+	**$96.50**

Nemo® Cosmo Air™ Mattress
7800

Offering the ultimate in comfort and portability, this inflatable mattress features a built-in high-speed foot pump with dual air intake for incredibly fast inflation. Lateral I-beam baffles provide a stable, supportive sleeping surface. A high-speed deflation valve makes deflating the mattress fast and easy. Constructed of 75D polyester.

Thickness: 3″. **Area:** 13 sq. ft. **Dimensions:** 25″W x 76″L. **Packed Size:** 13″x 4.5″ dia. **Weight:** 1.8 lbs.

Nemo Cosmo Air Mattress	2 lbs.	**35519**	**$139.95**

Nemo® Fillo™ Camp Pillow
7801

Combines a 3″ thick I-beam baffled inflatable cell and a 1″ thick memory foam layer. An elastic cord grid underneath the pillow allows you to slide in a piece of clothing for additional height to better accommodate broad shouldered side-sleepers. The cords also hold the pillow in place in an airplane or vehicle seat to provide lumbar support. Features a soft microsuede cover with an integrated stuff sack.

Thickness: 4″+. **Area:** 178 sq. in. **Dimensions:** 10.5″W x 17″L. **Packed Size:** 6″x 4″ dia. **Weight:** 10.8 oz.

Nemo Fillo Camp Pillow	12 oz.	**35529**	**$39.95**

THERM-A-REST

Manufacturer's Warranty Lifetime

Therm-A-Rest® RidgeRest® Foam Cell Sleeping Pad
6078

Better than most closed-cell foam pads, Ridge Rest® features molded ridges for soft, sleeping comfort. In addition to the natural insulation of EVA foam, its valleys trap more warm air. 20″W x 72″L x 5/8″ thick. Limited lifetime warranty.

Ridge Rest Foam Cell Sleeping Pad 14 oz.	**93988**	**$29.95**

THERM-A-REST

Therm-A-Rest® Trail Lite™ Mattresses
6069

Warmth, comfort, and durability!

Versatile and lightweight, these 1.5″ thick mattresses are constructed of durable 150D polyester. Two sizes available. Stuff sack included.

Trail Lite - Regular, 72″L x 20″W x 1.5″ thick, 21″x 4.3″ rolled up. 2 lbs.	**35339**	**$69.95**
Trail Lite - Large, 77″L x 25″W x 1.5″ thick, 26″x 4.6″ rolled up. 2 lbs.	**93986**	**$79.95**

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Mountainsmith® Trekker FX 7075 Monopod/Trekking Pole
2916

Durable and versatile, this aluminum monopod features a 1/4-20 SAE threaded bolt for easy attachment of a camera (3 lb. carry weight capacity). The three-section monopod telescopes from 28″ to 54″ and utilizes twist-lock Double Cam adjustment and a spring-loaded anti-shock system with twist lock-out. Also features a removable hiking basket with locking pin, a rubber boot tip, a molded EVA handle, and an adjustable wrist strap.

Mountainsmith Trekker FX 7075 Monopod/Trekking Pole
10 oz. **35404** **$29.95**

ALPS MOUNTAINEERING

ALPS Mountaineering Zion External Frame Pack
7308

3,900 cu. in. Caapacity

This top-loading external frame pack is made of nylon ripstop fabric and is hydration compatible. Other features include a sleeping bag compartment, a lower door, a hold-open bar, large front pocket, multiple zippered side pockets, mesh pockets on lower side pockets, large mesh water bottle pocket, spindrift collar with draw cord, daisy chain with carry handle, top lid lash tabs, multiple shoulder strap positions, padded mesh waist belt, padded shoulder straps, and vented lumbar support. **Capacity:** 3,900 cu. in.

Zion External Pack
5 lbs. **35392** **$119.25**

ALPS MOUNTAINEERING

ALPS Mountaineering Cascade 5200 Internal Frame Pack
8255

5,200 cu. in. Capacity

Top loading pack with an extendable top lid and "Over the Top" compression straps. The top pocket also converts to a fanny pack. Other features include a tubular lightweight frame, spindrift collar with draw cord, hydration pocket and port, zippered side pockets, lower side bottle pockets, front access to large main pocket, lash points on front pocket, lower door with #10 zipper, an internal horizontal divider, a rescue whistle buckle on the sternum strap, and an adjustable suspension. Lightweight Polyester Ripstop. Rain cover included. **Torso:** 18″ to 22″.

Cascade 5200 Internal Frame Pack
5 lbs. **35308** **$141.95**

ALPS MOUNTAINEERING

ALPS Mountaineering Red Tail 4900 Internal Frame Pack
4575

4,900 cu. in. Capacity

This top load internal frame pack features an extendable top lid, a spindrift collar with draw cord, an "over the top" compression strap, a hydration pocket and port, 2 zippered front pockets with Kangaroo pocket, multiple side compression straps, lower side bottle pockets, a lower door with #10 zipper, an internal horizontal divider, a sternum strap with rescue whistle buckle, and "webbing ladder" adjustable harness. In addition, the top pocket converts to a fanny pack. Lightweight Polyester Ripstop. Rain cover included. **Torso:** 14″ to 20.5″.

Red Tail 4900 Internal Frame Pack
6 lbs. **35309** **$137.75**

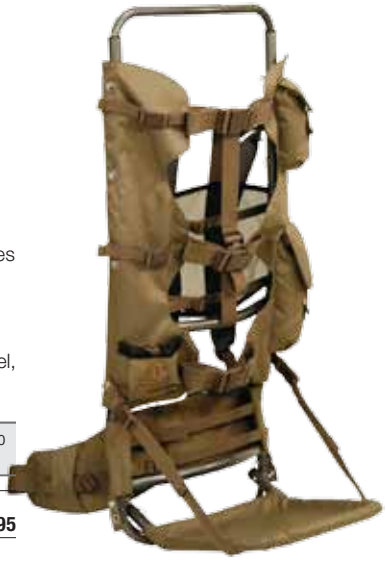
Slumberjack

New! Slumberjack® Rail Hauler Frame
3930

Designed to hold loads up to 200 pounds, this aluminum frame features a folding support shelf and four compression panels. Features torso adjustment, two slash pockets, and PALS webbing for attaching gear. 420D Poly material on the back panel, waist belt, and shoulder harness. Kryptek® multi-level camo pattern.

Dimensions: 31″H x 13″W. **Torso:** 17.5″ to 20.5″. **Weight:** 5 lbs. 2 oz.

Rail Hauler Frame
5 lbs. **35901** **$169.95**



ALPS MOUNTAINEERING

ALPS Mountaineering Commander External Frame with Lashing System
7582

Aluminum frame, freighter shelf for supporting heavy loads, a shooting stix holder, adjustable shoulder harness, padded waist belt and shoulder straps, and clevis pin attachment.

Dimensions: 39″x 17″x 6″. **Torso:** 17″ to 23″. **Weight:** 5 lbs. 2 oz.

Commander External Frame with Lashing System
6 lbs. **35321** **$85.25**

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ALPS MOUNTAINEERING

ALPS Mountaineering Wasatch 3900 Internal Frame Pack

4850

3,900 cu. in. Capacity

This top loading pack with extendable top lid is made of lightweight Polyester Ripstop and has a unique pack compression system. Other features include access to the main compartment from each side, a spindrift collar with draw cord, adjustable suspension, a rescue whistle buckle on the sternum strap, a hydration pocket and port, and lower Neoprene side bottle pockets. Rain cover is included.

Torso Range: 16″ - 20″. **Capacity:** 3900 cu. in.

Wasatch 3900 Internal Frame Pack	5 lbs.	**35320**	**$116.25**

MOUNTAINSMITH

Mountainsmith® Apex 80 Pack

7346

5,858 cu. in. Capacity

Makes organizing your gear easy! Features of this pack include vertical zippered access to the main compartment, a separate sleeping bag compartment, zippered side pockets, zippered map pocket, expandable sleeve/shovel pocket, internal hydration bladder sleeve with exit port (bladder not included), side pocket that fits Nalgene® style water bottles, trekking pole mounts, and ice axe/tool loops. The SlingShot™ detachable top lid converts into a lumbar pack or shoulder sling. The pack features a compression molded back panel with contoured lumbar support and pivoting dual density waistbelt for optimal load transfer. Made with 450d ReDura™ PET (100% Recycled) and 420d Nylon Velocity body fabrics.

Torso: 17″ to 22″. **Capacity:** 5,858 cu. in.

Mountainsmith Apex 80 Pack	5 lbs.	**34507**	**$188.95**

Pajaro™ Grande Field Pack

2167

The large main pocket of this field bag measures 8″ x 10-1/2″ x 3″, can accommodate up to two field guides, and zips shut for waterproof protection of contents. A full-length, zippered side pocket can hold full-size binoculars or a camera, and an elasticized side pocket is ideal for your water bottle, cell phone, or sunglasses. Use the four other pockets for storing maps, checklists, note pads, valuables, and more. Features a comfortable shoulder strap and belt loop. Constructed of rugged Cordura®. **Color:** Black.

Pajaro Grande Field Pack	11 oz.	**35735**	**$41.50**

MOUNTAINSMITH

Mountainsmith Lumbar Packs

2763

Designed with comfort in mind, these packs feature a patented contoured Omni Belt with Delta Compression System which utilizes triangulated straps to compress weight into the lumbar area for a stable, evenly distributed load. Each pack includes a main pocket, inner valuables pocket, and a zippered front pocket. The large mesh water bottle pockets can hold a 32 oz. water bottle. Four carrying options allow you to use the pack as a lumbar pack, a shoulder bag using the quick-release shoulder sling, a briefcase using the briefcase handles, or an add-on pocket to a full-size pack. For even more versatility, add the optional Strapettes (sold separately), a detachable shoulder strap harness system that allows the pack to be worn as a backpack. The packs feature an EVA foam back panel for comfort, compression strap, and key fob.

Tour Lumbar Pack

Capacity: 488 cubic inches. **Color:** Red.

Tour Lumbar Pack	2 lbs.	**35363**	**$70.50**

Day Lumbar Pack

Capacity: 854 cubic inches. **Color:** Black.

Day Lumbar Pack	2 lbs.	**35361**	**$79.25**
Strapettes	8 oz.	**35395**	**$24.95**

Pajaro™ Field Pack

3211

Made in USA

Perfect for carrying field guides, maps, notebooks, binoculars, cameras, small measuring equipment, and much more!

This hands-free Cordura® nylon field pack has seven easy-access pockets. Main pocket is 6-1/2″ x 9″ x 2-1/2″. A secret pocket with a Velcro® closure is ideal for keys, driver's license, credit cards, etc. Main flap has snap strap for quiet, quick access. A fully-adjustable waist belt with a quick-release buckle assures a comfortable fit. Made in the U.S.A. Forest green and black.

Pajaro Field Pack	8 oz.	**35730**	**$33.50**

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Pelican™ ProGear™ S100 Laptop & S140 Tablet Sport Elite Backpacks

4733

Lightweight yet tough, each backpack features a built-in, top-loading electronics storage case that is watertight, crushproof, and TSA-ready. A roomy main compartment and pockets provide additional storage. Floating shoulder straps and a lumbar pad with an ergonomic ventilated back ensure comfort. The SureGrip soft rubber handle allows for easy carrying. Each backpack also features a rigid front plate, a chest clip, and a removable hip belt.

Pelican ProGear S100 Sport Elite Laptop Backpack

Features an integrated laptop case, bottom expanding sling storage, and load compression straps.

Bag Volume: 25 liters. **Case Interior Dimensions:** 15.15″L x 10.40″W x 1.00″D. **Overall Exterior Dimensions:** 18.50″L x 13.00″W x 10.00″D. **Weight:** 7.14 lbs.

Pelican ProGear S100 Sport Elite Laptop Backpack	7 lbs.	**35573**	**$242.96**

Pelican ProGear S140 Sport Elite Tablet Backpack

Fits the iPad®, tablets, and netbooks. Features a padded lumbar storage compartment.

Bag Volume: 20.5 liters. **Case Interior Dimensions:** 10.40″L x 7.60″W x 1.30″D. **Overall Exterior Dimensions:** 20.00″L x 13.00″W x 10.00″D. **Weight:** 6.75 lbs.

Pelican ProGear S140 Sport Elite Tablet Backpack	7 lbs.	**35574**	**$140.37**

Pelican™ ProGear™ U105 Laptop & U145 Tablet Backpacks

2800

These backpacks utilize a hard-case structure to ensure reliable protection for your laptop or tablet computer. Each backpack features a rugged grab handle, a concealed water bottle pocket, a polypropylene front plate, and a lightweight, ergonomic design with a ventilated mesh back. Constructed of water-resistant 900 denier polyester, PU backed.

Pelican ProGear U105 Urban Laptop Backpack

Features an impact-protective frame that provides 360° protection for laptops up to 15″(up to 17″Apple®), removable accessory pouch, and impact-protected iPad®/tablet pocket.

Dimensions: Interior, 15.5″L x 10.5″W x 1.5″D; Exterior, 20.5″L x 12.5″W x 9.5″D.

Pelican ProGear U105 Urban Laptop Backpack	4 lbs.	**35589**	**$81.87**

Pelican ProGear U145 Urban Tablet Backpack

Features an impact-protected iPad®/tablet sleeve and built-in organizer sleeves.

Dimensions: Interior, 10.5″L x 7.5″W x 1.68″D; Exterior, 19.75″L x 12.5″W x 6.5″D.

Pelican ProGear U145 Urban Tablet Backpack	3 lbs.	**35590**	**$64.32**

Pelican™ ProGear™ U100 Elite Laptop & U140 Elite Tablet Backpacks

2801

Each backpack features an integrated Pelican case that is O-ring gasket sealed to remain watertight to 3.3 feet for 30 minutes (IP67 tested). A pressure equalization valve prevents vacuum lock. TSA-ready and utilize a push button latch to open easily and close securely. Other features include a concealed water bottle pocket, a polypropylene front plate, and an ergonomic S-curve comfort back. Constructed of 1000 denier Kodra nylon, PU backed.

Pelican ProGear U100 Urban Elite Laptop Backpack

Fits 15″ laptops (up to 17″ Apple®). Features impact-protected iPad®/tablet front compartment, bottom expanding sling storage, and load compression straps.

Dimensions: Interior, 15.5″L x 10.5″W x 1.5″D; Exterior, 19.5″L x 13.6″W x 12″D.

Pelican ProGear U100 Urban Elite Laptop Backpack	9 lbs.	**35587**	**$269.96**

Pelican ProGear U140 Urban Elite Tablet Backpack

Fits iPad®, tablets, or netbooks. Features an impact-protected front compartment, padded removable divider, and padded lumbar storage area.

Dimensions: Interior, 10.5″L x 7.5″W x 1.68″D; Exterior, 19.5″L x 13.6″W x 11.5″D.

Pelican ProGear U140 Urban Elite Tablet Backpack	7 lbs.	**35588**	**$152.07**

Mountainsmith® Explore Laptop Backpack

2915

This rugged pack features a backpanel-access, TSA-compliant laptop sleeve that fits most 17″ screens. The two-panel loader pack also features multiple internal pockets, a front panel accessory pocket, a side mesh water bottle pocket with elastic rigging, a side phone pocket with flap closure, and a key clip. Dual-density foam shoulder straps and an adjustable sternum strap provide a comfortable, secure fit. The bright yellow lining promotes visibility. Constructed of 600d Poly Melange body fabric with 210d RipStop lining.

Volume: 1,586 cubic inches. **Dimensions:** 17.75″L x 13.75″H x 8″D. **Weight:** 2 lbs. 2 oz.

Mountainsmith Explore Laptop Backpack	2 lbs.	**35226**	**$94.95**

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Mini Backpack
7452

Vintage mini backpack is constructed of washed cotton canvas and features one main compartment, 3 front zippered pouches, padded adjustable shoulder straps, carry handle, and 2 side pockets with elastic and tie-down straps.

Dimensions: 15″ x 13.5″ x 7″.
Color: Olive Drab.

Mini Backpack 1 lb.	**35372**	**$23.99**

G.I. Type HW Canvas Mini Alice Pack
7872

This canvas mini Alice Pack features a large main compartment with a drawstring top and overflap. 3 Large outside pockets are ideal for keeping gear handy. Adjustable shoulder straps.

Dimensions: 13″ x 16″ x 7″.
Color: Olive Drab.

Mini Alice Pack 2 lbs.	**35389**	**$23.99**

ALPS MOUNTAINEERING

ALPS Mountaineering Compression Stuff Sack
2986

Ideal for the compact storage of your sleeping bag or other items! Each stuff sack features straps connecting the top and bottom lids, allowing you to cinch down the top as much or as little as needed. A zippered pocket on the top lid keeps small items separate and accessible. Features a bottom handle with D-rings, double-stitched seams, and bartacked stress points. Constructed of 420D nylon ripstop fabric.

Small Compression Stuff Sack, Blue, 7″ dia. x 16″L	9 oz.	**35416**	**$18.50**
Medium Compression Stuff Sack, Rust, 9″ dia. x 20″L	13 oz.	**35418**	**$20.50**
Large Compression Stuff Sack, Olive, 11″ dia. x 23″L	15 oz.	**35419**	**$24.95**

G.I. Alice Packs
8533

Made of 1000 Denier with a waterproof lining, these rugged packs are ideal for the outdoors. Three large vented outside pockets and accessory loops keep necessary items handy. Padded kidney pad and shoulder straps help keep heavy loads bearable.

Dimensions: Medium Pack, 20″ x 19″ x 11″; Large Pack, 22″ x 20″ x 19″. The large pack comes with a heavy-duty anodized aluminum frame.

Medium Pack	3 lbs.	**35386**	**$53.99**
Large Pack with Frame	4 lbs.	**35387**	**$103.99**

ALPS MOUNTAINEERING

ALPS Mountaineering Valdez BackPack
4851

1500 cu. in Capacity

The vented back of this backpack allows maximum air flow! Made of lightweight Polyester Ripstop, it features a hydration pocket and port, padded waist belt, a rescue whistle buckle on the sternum strap, side Neoprene water bottle pockets, and a front stretch Neoprene pocket.

Capacity: 1500 cu. in.

Valdez BackPack 2 lbs.	**35335**	**$62.75**

ALPS MOUNTAINEERING

ALPS Mountaineering Solitude Plus Backpack
2990

3,100 cu. in. Capacity

This rugged pack features a large front pocket with a #10 zipper, two zippered side pockets, lower side mesh pockets, and a hydration pocket and port. Adjustable shoulder straps and a removable padded waist belt allow for a customized, comfortable fit. Also features a center aluminum frame stay and padded back with PE sheet. Made of polyester ripstop.

Solitude Plus Backpack 4 lbs.	**35494**	**$89.25**

Pelican™ Hardback Digital Protection Cases
page 712

Rite in the Rain® Bound Books
page 553

[search engine powered by magazooms.com]

Vintage B-15 Pilot Messenger Bag
7451

Heavyweight washed cotton canvas messenger bag features a large main compartment with inside zippered pocket, front and back zippered pockets, 2 side pockets, brown leather trim bottom and accents, brass hardware with clips, front flap with hook and loop closure, and adjustable shoulder strap. **Dimensions:** 14.5″ x 11″ x 5.5″. **Color:** Olive Drab.

Messenger Bag	3 lbs.	**35370**	**$45.99**

Engineer's Bag
7145

The ultimate carry-all! Features a large laptop size main compartment, a large back document compartment with 3/4″ zipper opening, a large size plastic covered document sleeve, a storm flap, a cell phone pouch, pen holders, an adjustable shoulder strap, a top carry handle, and nickel-plated hardware. Made of heavy-weight cotton canvas and measures 12″ x 14″ x 6″.

Engineer's Bag	3 lbs.	**35566**	**$37.99**

Tactical Laptop Briefcase
7450

Constructed of 600 denier polyester with a PVC coated lining. Features include a large main compartment with a flap, a removable padded sleeve for laptop, a zippered file and organizer compartment with ID holder, a zippered document compartment, loops on the back, 3 detachable pouches on the front, an adjustable padded shoulder strap, and a carry handle. Foliage Green. **Dimensions:** 17.5″ x 12.25″ x 6″.

Tactical Laptop Briefcase	5 lbs.	**35369**	**$90.99**

Texsport

Giant Deluxe Canvas Duffle Bag
6091

Can handle almost any load!

Heavy-duty cotton canvas duffle bag is supported with strong cotton web shoulder strap and handles. Durable hardware is made to last. **Color:** Olive drab.

30″ x 50″ O.D. Duffle	4 lbs.	**35936**	**$26.50**
		4+	**$24.75**

Texsport

Canvas Parachute Bag
6095

Rugged, all-purpose bag holds everything you need.

Large, 24″ x 15″ x 13″ size, 22 oz. cotton canvas bag features wrap-around cotton web handles for added durability and a heavy-duty full length zipper with a snap flap closure.

Color: Olive drab. **Capacity (approximate):** 4,680 cubic inches.

Canvas Parachute Bag	2 lbs.	**35371**	**$23.95**
		6+	**$21.95**
		12+	**$20.25**

G.I. Style Duffle Bag
8532

Made of H.W. cotton canvas. Double straps allow you to carry on your back. Other features include a side handle, a button pocket, and adjustable shoulder straps. **Dimensions:** 22″ x 38″.

G.I. Style Duffle Bag	3 lbs.	**35511**	**$24.99**

FORESTRY SUPPLIERS

Kumfort Utility Bag
6083

Tough, all-purpose storage bag.

Heavy-weight, water-repellent, olive 430 Denier nylon pack cloth. Full-bellowed sidewalls. Inside seams are bound with webbing. Inside partition makes two separate compartments. Adjustable web shoulder strap. 15″W x 11″H x 4-1/2″D.

Kumfort Utility Bag	6 oz.	**35499**	**$23.75**

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1 Uncle Mike's® Compact Duffle Bag
2792

Features wraparound 1-1/2″ web handles, oversized zippers with lockable pulls, and a handy clear plastic I.D. pocket. Cordura. **Dimensions:** 26″L x 12″ dia.

Uncle Mike's Compact Duffle Bag	2 lbs.	**35572**	**$20.25**

1

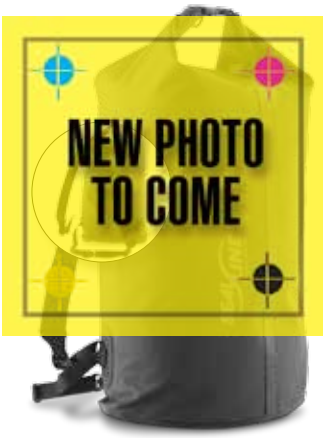
2 Uncle Mike's® Side-Armor™ Tactical Equipment Bag
3801

This rugged bag features a main center compartment, two side compartments, and one front compartment. All of the compartments have zippers with lockable double pulls. Constructed of 1680D Side-Armor™ material with water-resistant coating, the bag also features web handles and a removable padded shoulder strap.

Capacity: 4,778 cubic inches. **Dimensions:** Main Compartment, 26″L x 14″H x 10″D; Side Compartments, 2″L x 15″H x 9″D; Front Compartment, 22″L x 13″H x 2″D. **Color:** Black.

Uncle Mike's Side-Armor Tactical Equipment Bag	2 lbs.	**35391**	**$58.95**

2



SealLine® Boundary Pack
4560

Waterproof and durable, the Boundary Pack is perfect for canoeing and canyoneering. Made with 20 oz. vinyl sides and a heavy-duty 34 oz. bottom. The padded shoulder straps are removable and the Dry Seal roll-down closure ensures pack contents stay dry. Daypack sized. Includes a waistbelt and top buckle closure.

Capacity: 2270 cu. in. **Size:** 10″ x 14″. **Color:** Black.

Boundary Pack	3 lbs.	**35481**	**$89.95**

3 SealLine® Baja Dry Bag™
6111

Excellent protection for your gear!

Made with the finest 20 oz., PVC-coated fabrics available, these dry storage bags resist tearing, mildew, chemical and UV deterioration. They remain pliable at cold temperatures and will not crack even at -20°F. Their superior Dry Seal™ closures keep water out and gear dry. Buckles are first sewn to reinforced vinyl doubles, then welded to bags for waterproof integrity. Rounded bottoms strengthen bags and simplify stowing. The heavier duty 30HD bag (35445) has a reinforced 34 oz. bottom.

Baja 5 Dry Storage Bag – Capacity: 280 cu. in. Dimensions: 8″H x 7″Dia.	11 oz.	**35448**	**$19.95**
Baja 20 Dry Storage Bag – Capacity: 1,170 cu. in. Dimensions: 16″H x 9″Dia.	1 lb.	**35446**	**$26.95**
Baja 30HD Dry Storage Bag – Capacity: 1,950 cu. in. Dimensions: 19″H x 11″Dia.	2 lbs.	**35445**	**$31.95**

3

Filson® Twill Original Briefcase
pages 7 and 19

4 Texsport® Hydra Duffle
4318

Water-repellent, this heavy-duty duffle bag is made from tough PVC fabric laminated over polyester mesh. Features include a molded padded reinforced bottom, padded end grip loops for comfortable carrying, side compression straps, a detachable shoulder strap, and heavy-duty "U" zippers for easy access. Yellow/black. Measures 23-1/2″ x 12″ x 12″.

Texsport Hydra Duffle	4 lbs.	**35301**	**$46.50**

4

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BRUNTON

New! Brunton® Heavy Metal™ 5500 Portable Power

4917

Combining a lightweight design and outstanding capacity, the Heavy Metal 5500 provides power when you need it to recharge your smartphone, tablet computer, GPS, DLSR camera, and other electronic devices! The high-grade lithium ion cells charge quickly and have no memory. Twin USB outputs allow you to recharge multiple devices simultaneously, and the machined aluminum housing ensures durability.

Battery Storage: 5,500 mAh. **Charge Time:** USB, 6 hours; AC/USB, 6 hours. **Power Output:** 2.1 amp and 1 amp. **Input:** Integrated USB. **Output:** Dual, USB 2.0 and Micro USB. **Weight:** 8.7 oz. **Dimensions:** 4.5″ x 3″ x 0.6″.

Brunton Heavy Metal 5500 Portable Power	11 oz.	**02414**	**$79.99**

BRUNTON

New! Brunton® Torpedo™ 2800 Portable Power

4917

Incredibly compact, the Torpedo charges from the 12V power socket in your vehicle and provides on-the-go power! The on-board lithium battery charges fast, has no memory, and supplies power for recharging your smartphone, headlamp, flashlight, or walkie-talkie. In addition to dual USB outputs that can charge multiple devices simultaneously, the Torpedo features a rugged, machined aluminum housing.

Battery Storage: 2,600 mAh. **Charge Time:** DC Car Socket, 2 to 3 hours; USB, 3 hours; AC/USB, 3 hours. **Power Output:** 1 amp. **Input:** Micro USB and DC car adapter. **Output:** Dual, USB 2.0 and Micro USB. **Weight:** 4.75 oz. **Dimensions:** 5.1″ x 1.1″.

Brunton Torpedo 2800 Portable Power	6 oz.	**02399**	**$39.99**

BRUNTON

Brunton® Portable Power Devices

7520

Each rugged portable power device features an internal rechargeable Lithium Polymer battery to provide power whenever you need it!

Other features of the water-resistant units include a durable rubberized shell for impact protection, a power gauge, and auto shut-off.

New! Brunton® Sustain2™ Portable Power Device

This multi-charging battery reservoir features USB, 12V, 16V, and 19V outputs to charge a variety of electronic devices, from cell phones to laptops. Reverse flow protection prevents discharge of the device you're using. To recharge, simply plug into a household outlet, vehicle DC outlet, or Brunton Solar Panel (sold separately).

Battery Storage: 6,000 mAh. **Output:** 2,100 mA @ 5V USB; 3,200 mA @ 12V, 16V, and 19V. **Weight:** 1 lb. 6 oz. **Dimensions:** 7.75″ x 3.75″ x 1″.

Brunton Sustain2 Portable Power Device	3 lbs.	**02487**	**$214.95**

Brunton® Impel2™ Portable Power Device

Charge cell phones, cameras, laptops and more using the Impel's multitude of built-in outputs (USB, 12V, 16V, and 19V). Reverse flow protection prevents discharge of the device you're using. To recharge, simply plug into a household outlet, vehicle DC outlet, or Brunton® Solar Panel (sold separately).

Battery Storage: 13,000 mAh. **Output:** 600 mA @ 5V; 3,200 mA @ 12V, 16V, and 19V. **Weight:** 2 lbs. 10 oz. **Dimensions:** 7.75″ x 6.75″ x 1″.

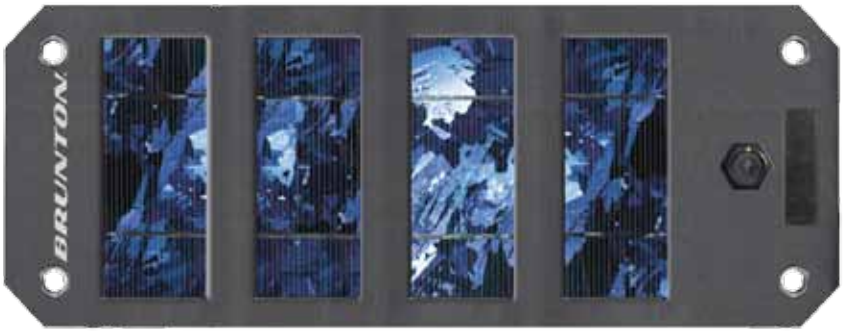
Brunton Impel2 Portable Power Device	4 lbs.	**02361**	**$286.00**

Brunton® Inspire™ Portable Power Device

This compact power pack is perfect for recharging personal electronic devices such as smartphones and iPods®. Features a mini-USB output. To recharge, simply plug into a computer's USB 2.0 port using the built-in cable, a household outlet (adapter not included), a vehicle DC outlet, or a Brunton Solar Panel (sold separately).

Battery Storage: 3,200 mAh. **Output:** 1,000 mA/5V (USB 2.0 compatible). **Weight:** 5.5 oz. **Dimensions:** 3.5″ x 3.75″ x .75″.

Brunton Inspire Portable Power Device	10 oz.	**02310**	**$59.99**



BRUNTON

Brunton® Explorer2™ Foldable Solar Panel

7519

Efficient and lightweight, this rugged solar charger offers 90% power capture and is ideal for charging power-hungry electronic devices like iPods® and smartphones. The USB output makes charging handheld electronics fast and easy. Independent polycrystalline panels maximize performance.

Output: 1,000 mAh/5V (5 Watts). **Weight:** 4.8 oz. **Dimensions:** 4.5″ x 9″ x 1″.

Brunton Explorer2 Foldable Solar Panel	1 lb.	**02358**	**$59.99**

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New! Schumacher® Power Inverters
7465

Manufacturer's Warranty 2 Year

Compact and highly portable, these power inverters convert 12V DC into AC current to power your laptop computer, cell phone, television, power tools, and other devices. For use in cars, trucks, RVs, or boats. Features include a 5V USB port, a built-in high-speed cooling fan, and surge protection to guard against damaging current fluctuations. Two-year limited warranty from the manufacturer.

Model PI-140

Features an LED correct-connection indicator. **Maximum Continuous Power:** 140W. **Peak Power:** 280W. **Number of AC Outlets:** One.

Model PI-140 9 oz.	**02432**	**$27.50**

Model PID-410

Features a digital display indicating Voltage In/Voltage Out/Power Out, a low battery alarm, and thermal protection that shuts down the unit if operating temperature is excessive. Plugs into 12V accessory outlet or connects directly to battery with clamps. Heavy-duty battery cables included. **Maximum Continuous Power:** 410W. **Peak Power:** 820W. **Number of AC Outlets:** Two.

Model PID-410 2 lbs.	**02433**	**$54.50**

Model PID-760

Features a digital display indicating DC volts/AC volts/output watts, a low battery alarm, and thermal protection that shuts down the unit if operating temperature is excessive. Plugs into 12V accessory outlet or connects directly to battery with clamps. Heavy-duty battery cables included. **Maximum Continuous Power:** 760W. **Peak Power:** 1,520W. **Number of AC Outlets:** Two.

Model PID-760 3 lbs.	**02434**	**$79.95**

New! Schumacher® Heavy-Duty Power Inverters
7465

Manufacturer's Warranty 1 Year

Designed to provide power for a variety of devices, these inverters convert 12V DC into AC current. Use to power your laptop computer, cell phone, drill, television, microwave, reciprocating saw, power washer, electric chain saw, and more! For use in cars, trucks, RVs, or boats. A digital display indicates DC volts, AC volts, and output watts. Surge protection guards against damaging current fluctuations, and thermal protection shuts down the unit if the operating temperature is excessive. Features a 5V USB port, LED indicators, a built-in high-speed cooling fan, and a low battery alarm. One-year limited warranty from the manufacturer.

Model PIF-1000

Heavy-duty battery cables included. **Maximum Continuous Power:** 1,000W. **Peak Power:** 2,000W. **Number of AC Outlets:** Two.

Model PIF-1000	6 lbs.	**02438**	**$169.95**

Model PIF-2000

Two sets of heavy-duty battery cables included. **Maximum Continuous Power:** 2,000W. **Peak Power:** 4,000W. **Number of AC Outlets:** Three.

Model PIF-2000	10 lbs.	**02439**	**$319.95**

Max Burton® 200-Watt AC to DC Power Converter
7641

Expand the uses of your 12-volt appliances with this power converter! The converter allows you to easily operate any 12-volt appliance or accessory using a 120-volt power source, up to 200 watts/15 amps. Simply plug the 12-volt socket into the appliance and plug the converter into a 120-volt power source. Use the converter's power switch to shut off power to the appliance.

Max Burton 200-Watt AC to DC Power Converter	2 lbs.	**02343**	**$57.50**

Energizer

Energizer® Nickel Metal Hydride Battery Charger
6163

Works with various sizes of rechargeable Energizer Nickel Metal Hydride batteries (8 AAA, 8 AA, 1 9V, 4 C, or 4 D). LCD screen displays charging progress. Automatically shuts off when each battery is fully charged. Limited lifetime warranty from the manufacturer.

Energizer Nickel Metal Hydride Battery Charger	1 lb.	**02145**	**$45.95**

Energizer

Energizer® Batteries
6163

Alkaline Batteries

AA cell Alkaline Batteries, pack of 4 7 oz.	**02352**	**$3.25**
AAA cell Alkaline Batteries, pack of 4 2 oz.	**02362**	**$3.25**
C cell Alkaline Battery, single 3 oz.	**02181**	**$1.85**
D cell Alkaline Battery Single 6 oz.	**02180**	**$2.45**
9V Alkaline Battery, single 3 oz.	**02179**	**$3.20**

Lithium Batteries

Provide optimum, long-lasting performance for your high-tech devices.

AA cell Lithium Batteries, 4 pack 3 oz.	**02150**	**$13.95**
	6+	**$12.75**
AAA cell Lithium Batteries, 4 pack 2 oz.	**02151**	**$15.50**
	6+	**$14.25**
CR123A, 3V Lithium Battery, single 1 oz.	**91414**	**$7.50**
CR2032, 3V Lithium Battery, single 1 oz.	**02190**	**$3.50**
CR2, 3V Lithium Battery, single 1 oz.	**92490**	**$8.75**

Rechargeable Nickel Metal Hydride Batteries

These batteries reliably hold their charge time after time and deliver the power necessary for high-tech, higher-drain devices.

AA cell Rechargeable, 4 pack 4 oz.	**02139**	**$21.50**
	6+	**$19.75**
AAA cell Rechargeable, 4 pack 2 oz.	**02141**	**$21.95**
	6+	**$20.25**
AA/AAA Charger with 4 AA Rechargeable Batteries 10 oz.	**02184**	**$25.50**
9V Rechargeable, single 1 oz.	**02146**	**$17.25**
C cell Rechargeable, 2 pack 4 oz.	**02147**	**$17.25**
D cell Rechargeable, 2 pack 5 oz.	**02148**	**$16.50**

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QuickReel – Storage & Retrieval Reel
6288

The quick way to retrieve up to 200 ft. of polyrope, 500 ft. of Teflon® cord, or 100 ft. of extension cord! Rugged, weather-resistant construction to withstand not-so-friendly use.

QuickReel – Storage & Retrieval Reel		
1 lb.	**78292**	**$9.95**
	6+	**$8.95**

EZ-Reel – Storage & Retrieval Reel
3257

An ideal way to retrieve and store up to 200 ft. of polyrope or 500 ft. of Teflon® cord. Also use around the home to store up to 100 ft. of extension cord.

EZ-Reel – Storage & Retrieval Reel		
1 lb.	**78210**	**$11.50**
	6+	**$10.25**

Military Style Metal Gasoline Can page 727

SolaDyne® Emergency Alert Radio & Flashlight page 494

Emergency Thermal Blanket pages 631 and 652

HONDA

New! Honda Super Quiet Series Generators
4828

Designed for exceptionally quiet operation, these lightweight generators feature an enclosed body and offer portable power whenever you need it! Advanced inverter technology provides stable, reliable power for computers and other sensitive equipment. The Eco-Throttle™ system ensures increased fuel efficiency by allowing the engine to run only as fast as needed for a given load. Oil Alert® protects the generator by automatically shutting off the engine if a low oil level is detected. Each generator also features a USDA-qualified spark arrestor/muffler and circuit protection to prevent overload.

Honda EU1000i Generator

AC Output: 120V 1000W maximum (8.3A) 900W rated (7.5A). **DC Output:** 12V, 96W (8A). **Engine:** Honda GXH50. **Displacement:** 50cc. **Receptacles:** 15A 125V Duplex. **Starting System:** Recoil. **Fuel Tank Capacity:** 0.6 Gallons. **Run Time Per Tankful:** 3.8 hours at rated load, 8.3 hours at 1/4 load. **Noise Level:** 59 dB(A) at rated load, 53 dB(A) at 1/4 load. **Dimensions:** 17.7″L x 9.4″W x 15.0″H. **Dry Weight:** 29 lbs.

Honda EU1000i Generator		
33 lbs.	**02033**	**$875.00**

Honda EU2000i Generator

AC Output: 120V 2000W maximum (16.7A) 1600W rated (13.3A). **DC Output:** 12V, 96W (8A). **Engine:** Honda GX100. **Displacement:** 98.5cc. **Receptacles:** 20A 125V Duplex. **Starting System:** Recoil. **Fuel Tank Capacity:** 0.95 Gallons. **Run Time Per Tankful:** 4 hours at rated load, 9.6 hours at 1/4 load. **Noise Level:** 59 dB(A) at rated load, 53 dB(A) at 1/4 load. **Dimensions:** 20.1″L x 11.4″W x 16.7″H. **Dry Weight:** 46.3 lbs.

Honda EU2000i Generator		
51 lb.	**02034**	**$1149.95**

Honda EU3000iS Generator

AC Output: 120V 3000W maximum (25A) 2800W rated (23.3A). **DC Output:** 12V, 144W (12A). **Engine:** Honda GX200. **Displacement:** 196cc. **Receptacles:** 20A 125V Duplex, 30A 125V Locking Plug. **Starting System:** Recoil, electric. **Fuel Tank Capacity:** 3.4 Gallons. **Run Time Per Tankful:** 7.2 hours at rated load, 20 hours at 1/4 load. **Noise Level:** 58 dB(A) at rated load, 49 dB(A) at 1/4 load. **Dimensions:** 25.8″L x 18.9″W x 22.4″H. **Dry Weight:** 134 lbs.

Honda EU3000iS Generator			
144 lbs.	X	**02035**	**$2295.00**

HONDA

New! Honda Deluxe Series Generators
4827

3 Manufacturer's Warranty 3 Year

Providing reliable backup power, these generators feature electric start with recoil back-up, multiple front panel outlets for easy power connections, and voltage regulation for continuous stable power. The exclusive iAVR (Intelligent Automatic Voltage Regulation) technology allows the generator to operate at 7000 watts for up to 10 seconds when starting equipment with a high initial amp draw. The powerful, commercial-grade Honda iGX engine features Oil Alert® which shuts off the engine when low oil is detected, and Auto Throttle® delivers increased fuel efficiency. Each generator also features simultaneous AC/DC output and a 120/240 Volt selector switch. Wide handles allow for convenient transporting, and a heavy-duty full frame ensures outstanding protection. Three-year warranty from the manufacturer.

Honda EM5000SX Generator

AC Output: 120/240V 5000W maximum (41.2/20.8A); 4500W rated (37.5/18.6A). **iAVR Output:** 7000W (58.3/29.2A) for 10 seconds. **Engine:** Honda iGX390. **Displacement:** 389cc. **Receptacles:** 20A 125V Duplex (2), 30A 125V Locking Plug, 30A 125/250V Locking Plug. **DC Output:** 12V, 100W (8.3A). **Fuel Tank Capacity:** 6.2 Gallons. **Run Time Per Tankful:** 8.1 hours at rated load, 11.2 hours at 1/2 load. **Noise Level:** 72 dB (A) at rated load. **Dimensions:** 41.1″L x 27.8″W x 30.5″H. **Dry Weight:** 232 lbs.

Honda EM5000SX Generator	F	243 lbs.	**02036**	**$2429.95**

Honda EM6500SX Generator

AC Output: 120/240V 6500W maximum (54.2/27.1A); 5500W rated (45.8/22.9A). **iAVR Output:** 7000W (58.3/29.2A) for 10 seconds. **Engine:** Honda iGX390. **Displacement:** 389cc. **Receptacles:** 20A 125V Duplex (2), 30A 125V Locking Plug, 30A 125/250V Locking Plug. **DC Output:** 12V, 100W (8.3A). **Fuel Tank Capacity:** 6.2 Gallons. **Run Time Per Tankful:** 6.9 hours at rated load, 10.4 hours at 1/2 load. **Noise Level:** 73 dB (A) at rated load. **Dimensions:** 41.1″L x 27.8″W x 30.6″H. **Dry Weight:** 243 lbs.

Honda EM6500SX Generator	F	261 lb.	**02037**	**$2889.95**

X Oversize. Ships UPS 70 lb. rate. See Shipping Information for details. F Ships Motor Freight. See Shipping Information for details.

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YAMAHA

1 Yamaha® 1000 Watt Generator
8232

Manufacturer's Warranty 2 Year

Ideal for RV AC/DC converters and operating small appliances, tools, and lights.

Quiet and lightweight, this inverter generator features Noise Block technology and noise-absorbing construction to reduce sound output to a whisper, and the compact, ergonomic design allows the generator to go almost anywhere. Smart Throttle technology provides up to 12 hours of running time without refueling by automatically adjusting the engine speed to precisely match the load. A fuel petcock reduces carburetor contamination by shutting off gasoline flow and allowing the carburetor to run dry, and the generator's large fuel filler opening helps to reduce spillage and overflow during refueling.

In addition, the generator features a built-in 12-volt battery charging system for RV, auto, or marine. Two-year limited warranty from the manufacturer.

Engine Type: 4-stroke, OHV, air-cooled single cylinder. **Displacement/HP:** 50cc/2.2 HP. **Fuel Tank Capacity:** 0.66 gallons. **Maximum AC Output:** 1000 Watts. **Rated AC Output:** 900 Watts. **12 Volt DC Output:** 8 Amps. **Continuous Operation at 1/4 Rated Load:** 12 hours. **Noise Level:** 47 to 57 dBA. **Weight:** 27.9 lbs. **Dimensions:** 17.7"L x 9.4"W x 14.9"H.

Yamaha 1000 Watt Generator	R	32 lbs.	**02025**	**$892.00**

1

2 Yamaha® 2000 Watt Generator
8233

Manufacturer's Warranty 2 Year

This inverter generator is whisper quiet, compact, and easy to transport. The Noise Block™ sound reduction system assures quiet operation, and the Smart Throttle™ technology varies engine speed based on the load to improve fuel economy. Pulse Width Modulation control allows the inverter to run items with built-in microcomputers or microcomputer-controlled electric tools. The auto warm up feature increases engine speed during cold starts to handle high power demands immediately. A USFS-approved spark arrestor prevents the release of sparks from the exhaust for added safety, and an Oil Watch warning system automatically shuts the engine off when the oil level is low. The generator also features a handy fuel gauge, a gasoline petcock that helps prevent carburetor contamination during storage, and a 12-volt battery charging system (cables included). Two-year limited warranty from the manufacturer.

Engine Type: 4-stroke, OHV, air-cooled single cylinder. **Displacement:** 79cc. **Fuel Tank Capacity:** 1.1 gallons. **Maximum AC Output:** 2000 Watts. **Rated AC Output:** 1600 Watts. **Continuous Operation at 1/4 Rated Load:** 10.5 hours. **Noise Level:** 51.5 to 61 dBA. **Weight:** 44.1 lbs. **Dimensions:** 19.3"L x 11.0"W x 17.9"H.

Yamaha 2000 Watt Generator	R	49 lbs.	**02029**	**$1099.00**

2

3 Yamaha® 2400 Watt Generator
2400

Manufacturer's Warranty 3 Year

Versatile and reliable, this generator utilizes High Current output to boost motor starting capability. Smart Throttle technology automatically adjusts engine speed to match the load, resulting in quiet operation and maximum fuel efficiency. Pulse Width Modulation produces high-quality electricity to ensure a safe, reliable power source for microcomputer-controlled appliances and other devices with built-in computer functions. The Oil Watch protection system stops the engine if the oil level gets low, and the gasoline petcock lets you shut off the gas to run the carburetor dry for storage. A cast iron cylinder liner provides long engine life and consistent performance during continuous use. The weight-saving aluminum die-cast frame and aluminum TCI rotor provide outstanding strength and durability. Removable front and back panels allow for easy servicing. A battery charging system (cable included) recharges 12-volt batteries for RV, auto, or marine. Three-year limited warranty from the manufacturer.

Engine Type: 4-stroke, OHV, air-cooled single cylinder. **Displacement:** 171cc. **Fuel Tank Capacity:** 1.6 gallons. **Maximum AC Output:** 2400 Watts. **Rated AC Output:** 2000 Watts. **Continuous Operation at 1/4 Rated Load:** 8.6 hours. **Noise Level:** 53 to 60 dBA. **Weight:** 75 lbs. **Dimensions:** 20.8"L x 16.5"W x 18.2"H.

Yamaha 2400 Watt Generator	X R	82 lbs.	**02030**	**$1479.00**

3

4 New! Yamaha® 5500 Watt Generator
8234

Manufacturer's Warranty 3 Year

With an electric starter and auto choke, this 5500 watt generator offers effortless push-button starting. The quiet OHV MZ360 engine features a hemispherical head, and the transistorized ignition ensures an efficient spark and maintenance-free operation. The generator's automatic oil warning system shuts down the engine before the oil level is low to prevent engine damage, and a fuel gauge lets you easily monitor the fuel level. The digital volt/hour meter indicates voltage output and displays total run time accumulation. The generator features a full roll cage design, rugged wheels, fold-down locking handles, and a lifting eye for convenient hoisting and security. Three-year manufacturer's warranty.

Engine Type: OHV MZ360 engine. **Displacement:** 358cc. **Fuel Tank Capacity:** 6.9 gallons. **Maximum AC Output:** 5500 Watts. **Rated AC Output:** 4500 Watts. **Continuous Operation:** 9 hours at rated load. **Noise Level:** 74.1 dB. **Weight:** 234 lbs. **Dimensions:** 31.5"L x 28.4"W x 29.1"H.

Yamaha 5500 Watt Generator	F R	28 lbs.	**02024**	**$1400.00**

4

5 New! Yamaha® 7200 Watt Generator
8234

Manufacturer's Warranty 3 Year

This powerful 7200 watt generator features an electric starter and auto choke for fast push-button starting. The Transistor Controlled Ignition provides a clean, efficient spark for starting and ensures reliable, low maintenance operation. The generator's OHV MZ360 engine with a hemispherical head offers excellent fuel efficiency. An automatic oil warning system shuts off the engine before the oil level is low to prevent engine damage, and a fuel gauge allows for convenient monitoring of the fuel level. The digital volt/hour meter displays total run time accumulation and indicates the voltage output. The generator features a full roll cage design, rugged wheels, fold-down locking handles, and a lifting eye for hoisting and security. Three-year manufacturer's warranty.

Engine Type: OHV MZ360 engine. **Displacement:** 358cc. **Fuel Tank Capacity:** 6.9 gallons. **Maximum AC Output:** 7200 Watts. **Rated AC Output:** 6000 Watts. **Continuous Operation:** 8 hours at rated load. **Noise Level:** 74.5 dB. **Weight:** 236 lbs. **Dimensions:** 31.5"L x 28.4"W x 29.1"H.

Yamaha 7200 Watt Generator	F R	265 lbs.	**02032**	**$1699.00**

5

X Oversize. Ships UPS 70 lb. rate. R Cannot be sold internationally F Ships Motor Freight.

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FoxFury Command Series Fire Helmet Lights

7662

With an ultra-slim, low-profile design, these lights easily fit beneath most fire helmet visors and faceshields where only limited clearance exists. Available with either 10 LEDs or 20 LEDs, each helmet light features three operating modes and an optimized blend of focused, distance, and panoramic light. In addition to the LEDs in the front, a red safety LED in the back helps you to be seen by others. The polycarbonate housing is fire- and impact-resistant and is also waterproof to 20 feet (6 meters). Fits all fire helmets with goggles, Bourke Eyeshields, EZ-Flips, Defender Visors, and external faceshields. Meets NFPA Fire Resistant Requirements (500°F for 30 minutes). Two-year warranty from the manufacturer. **Dimensions:** 4.8″W x 0.7″D x 1.0″H. **Weight:** 8.4 oz.

Manufacturer's Warranty 2 Year

FoxFury Command 10 Fire Helmet Light

Features 10 white LEDs.

Light Output: 48 Lumens. **Field of Vision:** 38°. **Distance Vision:** 50 to 75 feet (15 to 23 meters). **Peripheral Vision:** 48 feet (15 meters). **Batteries:** 4 AA batteries (not included). **Battery Life:** 16 to 32 hours.

FoxFury Command 10 Fire Helmet Light	9 oz.	**02167**	**$65.99**

Manufacturer's Warranty 2 Year

FoxFury Command 20 Fire Helmet Light

Features 20 LEDs (18 white and 2 green). The combination of white and green light enhances depth perception and helps you to see and be seen through mild to moderate smoke.

Light Output: 72 Lumens. **Field of Vision:** 38°. **Distance Vision:** 100 to 120 feet (31 to 37 meters). **Peripheral Vision:** 48 feet (15 meters). **Batteries:** 4 AA batteries (not included). **Battery Life:** 8 to 16 hours.

FoxFury Command 20 Fire Helmet Light	9 oz.	**02168**	**$89.99**

Cyalume® Chemical Lightsticks

6185

Non-toxic, non-caustic, and non-corrosive!

To activate, flex the 6″ plastic tube and shake. The result is brilliant, non-ignitable chemical light that is safe to use around flammable materials. Even works under water. Requires no batteries.

General Purpose, Green. Glows 8-12 hrs.	1 oz.	**02110**	**$2.20**
		20+	**$1.70**
		100+	**$1.45**
General Purpose, Red. Glows 8-12 hrs.	1 oz.	**02140**	**$2.65**
		20+	**$2.05**
		100+	**$1.75**
Hi-Intensity, Yellow. 30 minutes of bright working light.	1 oz.	**02111**	**$2.20**
		20+	**$1.70**
		100+	**$1.45**

FoxFury Nomad Prime Portable LED Area Light/Spotlight

Manufacturer's Warranty 2 Year

7998

This ultra-portable light utilizes a diffuser lens to easily switch between the area light and spotlight functions. The lighting system can be deployed in less than 20 seconds, telescopes up to 8′ high as a tripod light, and folds down into a 33″ tube for easy transport. The light rotates 340° and tilts up/down, allowing you to aim the beam exactly where you need it. Six white LEDs provide up to 4,000 torch lumens (50,240 candlepower). The light features built-in level and leg adjustments for sure placement on uneven terrain, offers three modes of intensity, and is powered by a rechargeable Lithium-ion battery (AC or DC charge). This impact-resistant, all-weather light features a nylon 66 body with a 6061-T6 aluminum head and includes a stainless steel telescoping tube with carrying strap. Two-year manufacturer's warranty.

Lumens: Low Intensity, 1,300; Medium Intensity, 2,700; High Intensity, 4,000. **Battery:** Rechargeable Lithium-ion. **Charging Time:** 8 hours. **Battery Life:** Low Intensity, 9 hours; Medium Intensity, 6 hours; High Intensity, 2.5 hours. **Dimensions:** Deployed, 94″ maximum height; Closed, 33″L x 4.6″ dia. **Weight:** 17 lbs.

FoxFury Nomad Prime Portable LED Area Light/Spotlight	20 lbs.	**02296**	**$1334.99**

PELICAN™ You break it, we replace it... forever.

Pelican™ ProGear™ 9420XL LED Work Light Kit

4732

This portable work light features a swiveling head with two LEDs and a 5 foot high mast that deploys in seconds. Use the water-resistant switch to easily select either high or low LED brightness. The light is powered by a rechargeable Lithium-ion battery pack, giving you the freedom to move around in your work area without worrying about power cords. A battery charge indicator informs you of power status. **Kit includes:** work light, two Lithium-ion batteries, AC charger with transformer, DC vehicle charger, charging station, carrying strap, and hard carrying case. Weather-resistant body meets IP54 standards.

LED Type: Cree. **LED Life:** 50,000 hours. **Tested Lumen Value:** High, 1,000; Low, 500. **Beam Spread:** 58°. **Power:** Lithium-ion battery. **Battery Burn Time:** High, 2 hours; Low, 4 hours. **Battery Charging Time:** 2 hours. **Battery Life:** 300 cycles. **Length Closed:** 29″. **Mast Height Extended:** 62″. **Weight:** 8.4 lbs.

Pelican ProGear 9420XL LED Work Light Kit	22 lbs.	**02274**	**$269.96**

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New! GOLIGHT® RadioRay® LED Wireless Remote Controlled Spotlight

6219

200,000 Candela Peak Beam Intensity

This versatile spotlight utilizes LED technology and a programmable, wireless remote to provide reliable illumination precisely where you need it! The spotlight features 370° rotation and 135° tilt movement using the remote control. The UV-resistant, salt water-resistant housing ensures superior durability. Includes a 15´ cord with a 12V DC adapter which runs off your vehicle's battery, a suction cup mount, and a magnetic shoe mount. Three-year limited warranty from the manufacturer.

LED Life: 50,000 hours. **Peak Beam Intensity:** 200,000 candela. **Maximum Beam Distance:** 894 meters (2,933 feet). **Beam Angle:** 8°. **Amp Draw:** 3 Amps with 12V power source.

GOLIGHT RadioRay LED Wireless Remote Controlled Spotlight	8 lbs.	**02095**	**$549.00**

New! GOLIGHT® Stryker™ LED Wireless Remote Controlled Spotlight

7832

320,000 Candela Peak Beam Intensity

This remote controlled spotlight combines efficient, reliable LED/P-Vex lens technology with a modern, streamlined design. Using the wireless remote control, you can easily adjust the direction of the light's beam (full 370° horizontal rotation and 135° vertical tilt). The rugged, weatherproof light features a UV-resistant, salt water-resistant housing. Five-year limited warranty from the manufacturer.

Peak Beam Intensity: 320,000 candela. **Maximum Beam Distance:** 1,131 meters (3,711 feet). **Beam Angle:** 8°. **Amp Draw:** 2.8 Amps with 12V power source.

GOLIGHT Stryker LED Wireless Remote Controlled Spotlight with Magnetic Mount	7 lbs.	**02096**	**$629.00**
GOLIGHT Stryker LED Wireless Remote Controlled Spotlight with Permanent Mount	6 lbs.	**02097**	**$589.00**

GOLIGHT® RadioRay® Remote Controlled Spotlights

6219

Features a convenient remote control.

Remote controlled, exclusive design allows you to turn the light on/off or move the beam up and down 135° or side to side 370° by utilizing the interior remote control. Features a 12V Philips Axial Filament halogen bulb, a 16´ weatherproof cord with a 12V DC adapter which runs off your vehicle's battery, a mechanical 6´´x 6´´ rubber "sure-lock" suction cup base for temporary mounting, and a permanent mounting bracket (or choose the model with a magnetic base). High-impact, UV-resistant, weather-resistant, salt water-resistant housing ensures hours of dependable use.

Peak Beam Intensity: 225,000 candela. **Maximum Beam Distance:** 949 meters (3,113 feet). **Beam Angle:** 8°. **Amp Draw:** 5.5 Amps with 12V power source.

GOLIGHT RadioRay Wired Remote Control Spotlight	5 lbs.	**02101**	**$129.00**
GOLIGHT RadioRay Wireless Remote Spotlight with Magnetic Mount, Black	7 lbs.	**02099**	**$259.00**
GOLIGHT RadioRay Wireless Remote Spotlight with Magnetic Mount, White	7 lbs.	**02098**	**$259.00**

GOLIGHT® Stryker™ H.I.D. Wireless Remote Controlled Spotlight

7832

550,000 Candela Peak Beam Intensity

The High Intensity Discharge (H.I.D.) Stryker generates almost twice as many lumens per watt as traditional halogen light sources, producing a maximum beam distance of 1,483 meters (4,865 feet), a peak beam intensity of 550,000 candela, and a 12° beam angle. Use the programmable wireless remote control to easily adjust the light's beam (full 370° horizontal rotation and a 135° vertical tilt). The Stryker H.I.D. plugs into a 12V power outlet, requires only 3.5 amps for continuous operation, reaches peak output in less than 15 seconds, and reaches 70% capacity in only 4 seconds. The filament-free Philips® D1S bulb offers a rated life of more than 3,000 hours. Features a magnetic base and high-impact, weather-resistant housing.

Peak Beam Intensity: 500,000 candela. **Maximum Beam Distance:** 1,431 meters (4.865 feet). **Beam Angle:** 12°. **Amp Draw:** 3.5 Amps

GOLIGHT Stryker H.I.D. Wireless Remote Controlled Spotlight	6 lbs.	**02120**	**$629.00**

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Q-Beam® Max Million™ III Cordless Rechargeable Spotlight

7384

Switches from spotlight to wide-angle floodlight! 100 watt halogen bulb produces 820 lumens and offers a maximum beam distance of 565 meters. A polished aluminum reflector optimizes light output, and the light features a lockable trigger and toggle "spot to flood" switch. Recharge the battery using the 120V AC charger or the 12V DC adapter plug. Single charge provides 20 minutes of runtime. Features tough ABS plastic construction and a metal bracket for hanging or storage. Includes extra halogen bulb and three snap-on filter lenses (red, amber, and blue).

Max Million III Cordless Rechargeable Spotlight	6 lbs.	**02185**	**$48.75**
Replacement Rechargeable Battery for Q-Beam Max Million III	2 lbs.	**02135**	**$23.75**

Repl.	Weight	Max Million II	Max Million	$
Battery	2 lbs.		02165	$18.95
	2 lbs.	02162		$22.50
Lamp	1 oz.	02161	02166	$17.50

New! Q-Beam® LED Night Vision Rechargeable Spotlight

7339

Using three white Cree XPG-2 LEDs, this spotlight produces 682 lumens in high mode and 300 lumens in low mode. In addition, 33 red LEDs provide 36 lumens for outstanding night vision. The spotlight is powered by an internal rechargeable Lithium-ion battery, and an AC charger is included. A lockout switch guards against accidental on/off, and the spotlight features a balanced handle with a rubber grip and a red LED charging indicator.

Beam Distance: High Mode, 431 meters; Low Mode, 275 meters. **Peak Beam Intensity:** 46,547 candela. **Run Time:** High Mode, 6.3 hours; Low Mode, 7 hours.

Q-Beam LED Night Vision Rechargeable Spotlight	3 lbs.	**02164**	**$66.95**

Q-Beam® Magnetic Base "Spot to Flood" Light

6189

This 12V light produces 1,390 lumens in spotlight mode and easily adjusts for use as a wide-angle floodlight. The light utilizes a shatter-resistant, sealed beam 9-amp lamp and offers a maximum beam distance of 628 meters. This rugged light features impact-resistant ABS plastic housing, a rust-proof stainless steel handle, and a rust-resistant aluminum bracket. The light is mounted on a magnetic swivel base with 50 lb. pull, has a 360 degree horizontal and 180 degree vertical swivel action, and includes a 12 ft. coiled cord with DC plug. Black.

Q-Beam Spot/Flood Light with Magnetic Base	4 lbs.	**02266**	**$48.25**

Honda Deluxe Series Generators page 684

Costa Del Mar® Blackfin® Sunglasses page 603

Q-Beam® High Intensity Portable Lights

6215

Every Q-Beam® operates off any 12V power source or Q-Beam Power Pack™ (sold separately). Can be used continuously with engine or generator running without draining power. Virtually indestructible ABS plastic housings withstand up to five G's impact while extended lens guards protect bulbs and lenses. Lights work in rain or under water and will even float. Recessed on/off switch prevents accidental activation. Multi-purpose hanger allows use as a stationary lamp. Balanced design with comfortable pistol grip.

Lighter Plug Extension Cord for all our Q-Beam Lights, 15 ft.	9 oz.	**02215**	**$19.00**
Pigtail Adapter with direct battery hookup for all our Q-Beam Lights, 10 ft.	8 oz.	**02265**	**$17.95**

Q-Beam® Max Million™ III

Offering a super high-intensity beam, this is Q-Beam's most powerful 12V spotlight! Includes 8 ft. coiled cord, 12V DC plug with LED indicator light, and nylon carrying bag.

Q-Beam Max Million III

This light uses a halogen bulb to produce a maximum beam distance of 619 meters and a light output of 1,200 lumens.

Q-Beam Max Million III	2 lbs.	**02130**	**$31.95**

New! Q-Beam Max Million III with Spot to Flood

This light features a toggle switch to easily adjust from spot to flood beam. A halogen bulb produces a maximum beam distance of 750 meters and a light output of 1,625 lumens.

Q-Beam Max Million III with Spot to Flood	2 lbs.	**02485**	**$34.95**

Q-Beam® Spot/Flood®

200,000/100,000 Candlepower

So versatile – a 200,000 candlepower spotlight and a 100,000 candlepower floodlight in a single unit! Capable of illuminating objects over a mile away. Includes 8 ft. coil cord and 12V DC plug.

Q-Beam Spot/Flood	2 lbs.	**02200**	**$47.25**
Replacement Lamp for Q-Beam Spot/Flood	15 oz.	**02219**	**$19.25**

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STREAMLIGHT Heroes Trust Streamlight® — Manufacturer's Warranty Limited Lifetime

Streamlight® Waypoint® LED Spotlight

7659

This high performance spotlight utilizes C4® LED technology to produce a bright beam and features a trigger-style switch for easy operation. Select from three modes of operation: high (115,000 candela peak beam intensity/210 lumens), low (10,000 candela peak beam intensity/20 lumens), or strobe. A deep-dish parabolic reflector produces a long-range targeting beam with optimum peripheral illumination. Use the integrated stand for precise scene lighting. Featuring a high-impact polycarbonate housing, the spotlight has an o-ring sealed lens and a comfortable cushioned-grip handle. Lanyard included. IPX4 rated water-resistant design. Limited lifetime warranty from the manufacturer.

LED Life: 50,000 hours. **Power:** four C batteries (not included) or 12V DC power cord (included). **Run Time:** 8.5 hours (high mode); 120 hours (low mode or strobe). **Weight:** 1.8 lbs. (with batteries). **Dimensions:** 6.75″L x 7.14″H.

Streamlight Waypoint LED Spotlight	2 lbs.	**02386**	**$71.50**

STREAMLIGHT Heroes Trust Streamlight® — Manufacturer's Warranty Limited Lifetime

Streamlight® Waypoint® Rechargeable LED Spotlight

7659

With an IPX8 rated design, this rugged, rechargeable LED spotlight is waterproof to 2 meters and also floats! C4® LED technology provides excellent illumination in three different modes: high (80,000 candela peak beam intensity/300 lumens), low (6,100 candela peak beam intensity/25 lumens), and emergency signal. A trigger-style switch allows for momentary or click on/off operation, and a secondary rotary switch selects the output mode. The deep-dish parabolic reflector produces a long-range targeting beam with optimum peripheral illumination. An integrated stand allows for precise scene lighting. Features a high-impact polycarbonate housing, an o-ring sealed lens, and a comfortable cushioned-grip handle. Lanyard and 5′ 120V AC charge cord included. Limited lifetime warranty from the manufacturer.

LED Life: 50,000 hours. **Power:** Rechargeable Lithium ion battery. **Recharging Time:** 4 hours. **Run Time:** 5 hours (high mode); 50 hours (low mode); 35 hours (emergency signal mode). **Weight:** 1.52 lbs. **Dimensions:** 6.75″L x 7.14″H.

Streamlight Waypoint Rechargeable LED Spotlight	2 lbs.	**02411**	**$142.75**

New! Q-Beam® LED Rechargeable Spotlight

4902

This 5-watt LED spotlight produces 320 lumens of output with a maximum beam distance of 450 meters. In addition, 6 red and 6 blue LEDs improve night vision. This versatile spotlight features an adjustable stand for hands-free operation, a pistol grip with an on/off trigger switch, and a rugged ABS plastic housing. The spotlight is powered by a rechargeable alkaline battery system that provides 8 hours of runtime. AC charger included.

Q-Beam LED Rechargeable Spotlight	2 lbs.	**02484**	**$41.50**
12 Volt DC Adapter	2 oz.	**02486**	**$9.50**

Morovision MV-300-A Generation 3 Night Vision Monocular page 415

Cyclops® Seeker Spotlight

4748

4,000,000 Candlepower

This portable spotlight features a 120 watt H3 Halogen bulb that produces a powerful 4,000,000 candlepower beam. A detachable red lens is also included for improved night vision. Compact and easy to transport, the spotlight is equipped with a 6 ft. coiled cord and 12V DC plug.

Cyclops Seeker Spotlight	2 lbs.	**02121**	**$24.95**

THOR X Colossus

8139

18 Million Candlepower Spotlight

Extremely durable and powerful! Features include a bright Halogen bulb, adjustable swivel stands, removable carrying strap, and dual recharge, either by AC/DC adapter or 12V DC car plug adapter (both included). Also features 2 power levels - dim and spotlight!

Bulb Type: 130 Watt H4 Halogen. **Burn Time:** Spotlight, 40 Min. ±15%; Dim Light, 50 Min. ±15%. **Light Output:** 18 Million Candlepower. **Battery:** 12V 7 Ah Lead Acid.

THOR X Colossus	13 lbs.	**02197**	**$67.95**

Princeton Tec

New! Princeton Tec® Sector™ 5 Dive Light

7284

This waterproof spotlight utilizes a single Maxbright LED to provide 550 lumens of output. The pistol-grip trigger switch is easy to operate even when you're wearing gloves and can be locked to prevent accidental illumination and battery drain. Choose from momentary or constant mode. Waterproof to 100 meters. IPX8.

Output: 550 lumens. **Burn Time:** 24 hours. **Power:** 4 C alkaline batteries (included). **Weight:** 23 oz.

Princeton Tec Sector 5 Dive Light	2 lbs.	**02260**	**$109.99**

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New! Brinkmann® Armormax™ LED Tactical Flashlight
4908

Rugged and reliable, this tactical LED flashlight utilizes a polished parabolic reflector to maximize light output. Use the push-button tail-cap switch to choose from three modes (high, low, or strobe). The rectangular design allows the flashlight to be mounted on a gun, and the tactical bezel can be used for self-defense purposes. Constructed of machined aircraft-grade anodized aluminum. IP64 rated. Lanyard included.

Armormax 2C LED, Light Source: Cree XPG LED. Output: 155 lumens. Beam Distance: 314 meters. Run Time: 3.5 hours (High Mode). Power: 2 C alkaline batteries (included). Length: 8″.	15 oz.	**02243**	**$22.50**
Armormax 3C LED, Light Source: Cree XML LED. Output: 375 lumens. Beam Distance: 347 meters. Run Time: 4 hours (High Mode). Power: 3 C alkaline batteries (included). Length: 9.5″.	1 lb.	**02244**	**$31.95**

Streamlight® Stylus Pro®
7827

This ultra slim pen light features a bright C4® LED and a push-button tail switch for one-handed operation (momentary or constant "on"). The rugged light features an unbreakable, scratch-resistant polycarbonate lens and a machined aluminum alloy case with a removable pocket clip. IPX4 rated for water resistance. Nylon holster included. Manufacturer's limited lifetime warranty.

Output: 65 lumens. **LED Life:** 50,000 hours. **Power:** two AAA alkaline batteries (included). **Run Time:** up to 6.5 hours. **Weight:** 1.64 oz. **Length:** 5.3″.

Streamlight Stylus Pro	4 oz.	**02476**	**$24.50**

Streamlight® Nano Light®
7825

Tiny yet powerful, this weatherproof flashlight utilizes a 5mm high-intensity white LED that is impervious to shock. A non-rotating snap hook allows for easy one-handed operation when the light is attached to a keychain. Machined aircraft-grade aluminum housing with anodized finish. Manufacturer's limited lifetime warranty.

Output: 10 lumens typical. **LED Life:** 100,000 hours. **Power:** four IEC-LR41 coin cells (included). **Run Time:** up to 8 hours. **Weight:** 0.36 oz. **Length:** 1.47″.

Pink	Blue	Black	Red	Wt.	Each
02477	**02479**	**02480**	**02478**	2 oz.	**$8.25**

Note: Streamlight will make a $1.00 charitable donation for each of the following Nano Lights sold: Pink Nano (donation to The Breast Cancer Research Foundation®), Red Nano (donation to The National Fallen Firefighters Foundation®), and Blue Nano (donation to Concerns of Police Survivors, Inc.).

Wind 'N Go Flashlight
4451

Never requires batteries!

Ideal for emergencies because it is always ready to go! Wind up for 1 minute and receive 60 minutes of power. Three LED's generate super bright light anytime, anywhere. Features a rechargeable lithium battery that with normal use can be charged 500 times and last more than 10 years. Rotating 120 cycles/minute will generate 80% battery capacity. Includes adapter cable for charging your cell phone.

Wind 'N Go Flashlight	8 oz.	**02450**	**$17.75**

Right Angle Waterproof Military Flashlight
1107

Meets or exceeds U.S. Government waterproof standards.

Krypton lamp is 70% brighter than regular lamps. Heat and corrosion-resistant ABS body with a belt clip and ring hanger, a 3-position black oxide switch (on/off/blinker), a spare lamp, and color filters (stored in the end cap). Operates on two D cell batteries (not included). Olive drab.

Military Right Angle Flashlight	8 oz.	**02413**	**$15.25**
		12+	**$13.95**
Replacement Krypton Lamp For 02413	1 oz.	**02417**	**$2.05**
D cell Alkaline Battery, Single	6 oz.	**02180**	**$2.45**

Explosion and Waterproof Flashlight
6177

MSHA Class I Group C & D, Class II Group G and Class III

Features a special "circuit breaker" spring assembly which instantly disconnects the bulb in the event of a broken bulb. Meets all U.S. Government specifications for use in hazardous areas of atmosphere.

Explosion and Waterproof Flashlight	6 oz.	**02440**	**$15.25**
		12+	**$13.75**
Repl. Lamp	1 oz.	**02441**	**$1.50**
D Cell Battery	6 oz.	**02180**	**$2.45**

Note: This flashlight is for use in the following explosive atmospheres only: gasoline, petroleum, naphtha, alcohol, acetone, lacquer, solvent vapors, and natural gas. Light operates on two D cell alkaline batteries (not included).

Bright Star® Heavy Duty Industrial Flashlight & Wand
8520

This rugged flashlight features a crush-resistant reinforced case, an unbreakable lens, and a 250,000 cycle switch with a switch guard to prevent accidental lighting. The flashlight's lens ring accepts a 6.5″ snap-in wand (sold separately).

Light output: 10,000 beam candlepower. **Power:** 2 D cell batteries (not included). **Dimensions:** 8.1″L x 2.3″W.

Heavy Duty Industrial Flashlight	6 oz.	**02458**	**$8.95**
		12+	**$8.25**
6.5″ Red Snap-In Wand	1 oz.	**02459**	**$5.95**

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MAGLITE

New! Mag-Lite® Mag Charger® LED Rechargeable Flashlight

6169

Manufacturer's Warranty Limited Lifetime

Providing 680 lumens of light output, this LED flashlight projects a powerful beam over 1/4 mile (417 meters). The spot-to-flood quick focus system requires less than 1/4 turn of the head, and no dark spot appears in the beam during adjustment. A multi-mode electronic switch lets you personalize the flashlight for quick access to preferred function sets. **Select from five modes of operation:** high, low, strobe, momentary on/off, and SOS Morse Code. Features a high quality tempered glass lens, a durable black anodized finish, and a red LED charge indicator light. The charger operates on either AC or DC current. Includes 12V DC power cord, 120V AC converter, charging cradle, and NiMH battery pack.

Ultra Beam Distance: 417 meters. **Lumens:** 680. **Power:** Rechargeable NiMH battery pack. **Battery Burn Time:** High Mode, 4 hours 30 minutes; Low Mode, 16 hours. **Rated Bulb Life:** Up to 30,000 hours. **Overall Length:** 12-19/32″.

Mag-Lite Mag Charger LED Rechargeable Flashlight	3 lbs.	**02388**	**$144.95**
Replacement Battery	1 lb.	**02380**	**$34.50**

MAGLITE

New! Mag-Lite® 3rd Generation LED Flashlight

4939

Manufacturer's Warranty Limited Lifetime

Rugged and reliable, this flashlight features an ultra-performance LED that provides a bright, intense beam of illumination. **Using the "Quick Click" system, you can easily access these operating modes:** high power, low power, eco, momentary, and strobe. The multi-mode electronic switch allows you to personalize the flashlight for fast access to preferred functions. Fast focusing adjusts the beam from spot to flood with a 1/4 turn of the head. Constructed of anodized aluminum, the flashlight is backed by a limited lifetime warranty from the manufacturer.

2-D Cell Model

Ultra Beam Distance: 366 meters. **Lumens:** High, 524; Low, 143; Eco, 58. **Battery Burn Time:** High, 6 hours 30 minutes; Low, 20 hours; Eco, 69 hours.

2-D Cell Model	12 oz.	**02469**	**$49.95**

3-D Cell Model

Ultra Beam Distance: 406 meters. **Lumens:** High, 625; Low, 130; Eco, 58. **Battery Burn Time:** High, 16 hours; Low, 77 hours; Eco, 117 hours.

3-D Cell Model	14 oz.	**02470**	**$51.50**

MAGLITE

Mini Mag-Lite®

6168

Manufacturer's Warranty Limited Lifetime

The ideal personal flashlight. Can be balanced on end for convenient hands-free lighting. Only 6″ long – fits easily into a pocket, purse, briefcase, suitcase, or glove box. Same features as the original Mag-Lites. Black anodized finish. Plastic case included. Operates on two AA cell batteries (included).

Mini Mag-Lite	7 oz.	**02367**	**$13.75**
Replacement Lamp for Mini Mag-Lite	1 oz.	**02373**	**$2.95**
Black Nylon Case with belt loop, Velcro closure for Mini Mag-Lite Flashlight	2 oz.	**02368**	**$4.75**

Mini Mag-Lite® Pro+™ LED Flashlight

LED version of the legendary Mag-Lite and Mini Mag-Lite! Two-level power switching system allows you to choose from high output for maximum brightness or low output to conserve battery power. Simply twist the head of the flashlight for spot-to-flood focus. State-of-the-art LED light provides up to 245 lumens. **Length:** 6.607″.

Mini Mag-Lite Pro+ LED Flashlight	7 oz.	**02356**	**$33.25**

MAGLITE

New! Mag-Lite® Mag-Tac® LED Flashlight

4938

Manufacturer's Warranty Limited Lifetime

Designed with input from military tactical consultants, this rugged, compact flashlight features a crowned bezel and a knurled pattern on the barrel for a sure grip. **Use the Quick-Click™ mode selector to choose from three modes:** Momentary to keep the light on only when the switch button is being pressed, Full Power which produces a 320-lumen beam that can illuminate an object two football fields away, and Strobe that creates a high-energy 12 Hz strobe pattern. The tailcap switch turns the flashlight on and off without changing the beam's focal setting. Includes a detachable pocket clip. Manufacturer's limited lifetime warranty.

Ultra Beam Distance: 193 meters. **Lumens:** 320. **Power:** Two CR123 batteries (included). **Battery Burn Time:** 4 hours. **Overall Length:** 5.275″.

Mag-Lite Mag-Tac LED Flashlight	7 oz.	**02230**	**$79.95**

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STREAMLIGHT
Heroes Trust Streamlight

Manufacturer's Warranty
Limited Lifetime

Made in USA

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Streamlight® Stinger® Series & PolyStinger DS® LED Compact Rechargeable Flashlights

6171

The battery (included) recharges up to 1,000 times. Flashlight snaps into place for charging in either of the two chargers included – one installs in your vehicle (DC) and one installs in your home or office (AC). For positive identification, each flashlight is serialized. Manufactured in the U.S.A. and backed by a limited lifetime warranty.

1 Stinger®

The Stinger's Xenon bulb produces an 11,000 candela peak beam intensity (90 lumens measured system output). Features a variable spot to flood beam, an unbreakable polycarbonate lens, and O-ring seals. Machined black aluminum housing and knurled grip. Anodized, corrosion-resistant interior and exterior.

Run Time: 1.25 hours continuous use. **Weight:** 10 oz. **Length:** 7.38″.

Streamlight Stinger Compact Rechargeable Flashlight	2 lbs.	**02345**	**$125.95**
Replacement Lamp	1 oz.	**02427**	**$9.75**
Replacement Battery	7 oz.	**02334**	**$22.95**

2 PolyStinger DS® LED

The PolyStinger's C4® premium LED has a 50,000 hour life and provides a 26,000 candela peak beam intensity (385 lumens measured system output). Also features dual switch technology and three variable intensity modes plus strobe mode. The non-conductive nylon polymer case features a non-slip rubberized comfort grip, and the unbreakable polycarbonate lens is O-ring sealed.

Run Time: up to 7.25 hours. **Weight:** 11.9 oz. **Length:** 8.64″.

Streamlight PolyStinger DS LED Compact Rechargeable Flashlight	2 lbs.	**02342**	**$148.25**
Replacement Battery	7 oz.	**02334**	**$22.95**

3 Stinger® Classic LED

Compact yet powerful, this flashlight combines the sleek design of the original Stinger® with a C4® LED that provides up 390 lumens of output and has a 50,000 hour lifetime. **Choose from four lighting modes:** high, medium, low, or strobe. Features an anodized aluminum housing with a knurled barrel for a sure grip. The acrylic lens is gasket sealed.

Run Time: High, 1 hour 45 minutes; Medium, 3 hours 45 minutes; Low, 6 hours 45 minutes; Strobe, 5 hours. **Weight:** 11.1 oz. **Length:** 7.65″.

Streamlight Stinger Classic LED Rechargeable Flashlight	3 lbs.	**02226**	**$142.25**
Replacement Battery	7 oz.	**02334**	**$22.95**

4 Stinger DS LED HL®

Designed to provide maximum illumination, this flashlight produces up to 640 lumens with 297 meters of beam distance! The C4® LED offers a 50,000 hour lifetime and is shockproof. Dual Switch® technology allows you to access the various lighting modes (high, medium, low, or strobe) using either the tailcap switch or the multi-function push-button switch. Features anodized aluminum construction with a non-slip rubberized comfort grip. The unbreakable polycarbonate lens is O-ring sealed and features a scratch-resistant coating.

Run Time: High, 1 hour 15 minutes; Medium, 2 hours; Low, 4 hours; Strobe, 3 hours. **Weight:** 12.8 oz. **Length:** 8.85″.

Streamlight Stinger DS LED HL Rechargeable Flashlight	3 lbs.	**02227**	**$184.95**
Replacement Battery	7 oz.	**02334**	**$22.95**

5 Streamlight® UltraStinger® Rechargeable Flashlight

4108

This rechargeable flashlight boasts up to 35,000 candela for outstanding brightness. Constructed of machined aluminum anodized against corrosion inside and out, the flashlight weighs just over a pound. Also features an unbreakable polycarbonate lens, self-cleaning switch, and a spot-to-flood beam. The Nickel-Cadmium 6V battery provides one hour of continuous use between charges and can be recharged up to 1,000 times from a 120V AC source in your home or office or a 12V DC source in your vehicle (chargers included).

Weight: 1.1 lbs. **Length:** 11.75″.

Streamlight UltraStinger Rechargeable Flashlight	3 lbs.	**02340**	**$146.25**
Replacement Lamp	1 oz.	**02339**	**$10.50**
Replacement Battery	4 oz.	**02341**	**$37.50**

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1 New! Streamlight® ProTac HL® 3 LED Flashlight
2948

Offering extraordinary brightness, this flashlight uses C4® LED technology to produce up to 1,100 lumens with a beam distance of 379 meters. The TEN-TAP® programmable switch allows for one-handed operation and your choice of three lighting options: high/strobe/low, high only, or low/high. Solid State power regulation ensures maximum light output throughout the life of the batteries. Additional features include an anti-roll facecap, a gasket-sealed glass lens with anti-reflective coating, anodized machined aircraft aluminum construction, and a removable pocket clip. IPX7 waterproof rated and 1 meter impact resistance tested. Nylon holster included. Manufacturer's limited lifetime warranty.

Peak Beam Intensity: High, 36,000 candela; Low, 1,200 candela. **Lumens:** High, 1,100; Low, 35. **Run Time:** High, 1.5 hours; Low, 36 hours; Strobe, 1.5 hours. **LED Life:** 50,000 hours. **Power:** Three 3V CR123A lithium batteries (included). **Weight:** 9.3 oz. **Barrel Diameter:** 1.0″. **Length:** 7.10″.

Streamlight ProTac HL 3 LED Flashlight	12 oz.	**02351**	**$110.50**

2 Streamlight® Strion® Rechargeable LED Flashlight
7237

Utilizing C4® LED technology, this flashlight features three variable intensity modes and a strobe mode. The ultra-compact, IPX4 water-resistant flashlight features a rugged machined aircraft aluminum body with an anodized finish, a push-button tactical tailswitch, and a clamp-style charger holder with a digital control circuit to prevent overcharging. Manufacturer's limited lifetime warranty.

Light Output: High, 10,000 candela/260 lumens; Medium, 5,000 candela/130 lumens; Low, 2,500 candela/65 lumens. **Runtime (Continuous Use):** High, up to 2 hours; Medium, up to 4 hours; Low, up to 7.5 hours; Strobe, up to 5.5 hours. **Power:** Rechargeable Lithium Ion 3.75V battery. **Charge Time:** 3 hours. **Weight:** 5.22 oz. **Length:** 5.9″.

Strion Rechargeable LED Flashlight	2 lbs.	**02338**	**$131.25**
Replacement Battery	3 oz.	**02080**	**$32.95**

3 Streamlight® Strion LED HL® Rechargeable Flashlight
7237

This compact flashlight provides an impressive 500 lumens of light output with 200 meters of beam distance. The shockproof C4® LED has a 50,000 hour lifetime, and the Lithium Ion battery recharges up to 1,000 times (AC/DC chargers included). Use the push-button tail switch to choose from high, medium, low, or strobe modes. Constructed of anodized aluminum, the rugged flashlight features a knurled body for a sure grip and is IPX4 water-resistant. Features a Borofloat high-temperature glass lens. Serialized for positive identification. Limited lifetime warranty from the manufacturer.

Light Output: High, 500 lumens; Medium, 250 lumens; Low, 125 lumens. **Runtime (Continuous Use):** High, up to 1 hour; Medium, up to 2 hours; Low, up to 3 hours 30 minutes; Strobe, up to 2.5 hours. **Power:** Rechargeable Lithium Ion 3.75V battery. **Charge Time:** 3 hours. **Weight:** 5.2 oz. **Length:** 5.9″.

Streamlight Strion LED HL Rechargeable Flashlight	2 lbs.	**02297**	**$181.50**
Replacement Battery	3 oz.	**02080**	**$32.95**

4 Streamlight® Multi Ops® LED Flashlight
7824

This incredibly versatile light features an ultra-bright C4® LED, a UV light for fluid detection, and a red laser pointer that can be used alone or in combination with the C4® LED. A rotary switch lets you quickly select a function without cycling through different modes, and the push-button tactical tailcap on/off switch allows for easy operation. The unbreakable glass lens is gasket-sealed, and a micro faceted reflector ensures smooth focus. Machined aircraft-grade aluminum housing with anodized finish for corrosion resistance. IPX4 rated for water-resistance. Batteries, lanyard, and nylon holster included. Manufacturer's limited lifetime warranty.

Output: C4® LED, 2,500 candela peak beam intensity and 50 lumens measured system output; UV LEDs, 40mW measured system output; Laser, 650nm wavelength, Class IIIa (3R), <5 mW laser output power. **LED Life:** 50,000 hours. **Power:** three AAA alkaline batteries (included). **Run Time:** up to 4.75 hours. **Weight:** 7.04 oz. **Length:** 5.38″.

Streamlight Multi Ops LED Flashlight	9 oz.	**02428**	**$52.25**

5 Streamlight® ProTac HL® LED Flashlight
2948

This rugged light uses a C4® LED to provide up to 600 lumens of illumination with 253 meters of beam distance. TEN-TAP® Programming offers your choice of three lighting options: high/strobe/low, high only, or low/high. A push-button tail switch allows for one-handed operation, and the anti-roll design prevents the light from rolling away when you set it down. Constructed of durable anodized machined aircraft aluminum, the light features an o-ring sealed glass lens and a removable pocket clip. IPX7 waterproof rated and 1 meter impact resistance tested. Nylon holster included. Manufacturer's limited lifetime warranty.

Peak Beam Intensity: High, 16,000 candela; Low, 800 candela. **Lumens:** High, 600; Low, 33. **Run Time:** High, 1.25 hours; Low, 18 hours; Strobe, 2.5 hours. **LED Life:** 50,000 hours. **Power:** Two 3V CR123A lithium batteries (included). **Weight:** 5.6 oz. **Barrel Diameter:** 1.0″. **Length:** 5.40″.

Streamlight ProTac HL LED Flashlight	8 oz.	**02418**	**$93.50**

STREAMLIGHT
Heroes Trust Streamlight
Manufacturer's Warranty
Limited Lifetime

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Streamlight® Survivor® LED Flashlight
7540

This right-angle light uses C4® LED technology and features four lighting modes (high, low, flash, and moonlight). Two Smoke Cutter® plugs allow you to customize the beam pattern. The black plug produces a tighter beam, and the amber plug reduces both eye fatigue and the potential for glare in smoke. Features a low-profile bezel and a spring-loaded clip that securely attaches onto belts and gear. Also features a rubber dome push-button switch, high-impact nylon housing, and an o-ring sealed, unbreakable polycarbonate lens. IPX4 water-resistant. Class 1, Division 1 safety rated.

LED Rating: High, 175 lumens; Low, 60 lumens. **Beam Distance:** High, 405m; Low, 237m. **Power:** 4 AA alkaline batteries. **Run Times:** High, 4 hours; Low, 15 hours; Flash, 8 hours; Moonlight, 20 days. **Weight:** 13.1 oz. **Length:** 7.06″.

Streamlight Survivor LED Flashlight	15 oz.	**02363**	**$70.50**

Manufacturer's Warranty Limited Lifetime

Streamlight® PolyTac® LED Flashlight
7826

This rugged tactical light combines the piercing brightness of a C4® LED with a virtually indestructible nylon polymer housing. LED Solid State Power Regulation ensures maximum light output, and the tail cap push-button control allows for easy one-handed operation. A TEN-TAP® programmable switch enables you to choose from three different programs: high/strobe/low, high only, or low/high. The glass lens is o-ring sealed, and the IPX7 rated design is waterproof to one meter for 30 minutes. Meets requirements of NFPA 1971-8.6 (2007). Manufacturer's limited lifetime warranty.

Output: 275 lumens. **LED Life:** 50,000 hours. **Power:** two 3 Volt CR123A lithium batteries (included). **Run Time:** up to 65 hours. **Weight:** 4.2 oz. **Length:** 5.34″.

Black PolyTac	6 oz.	**02400**	**$50.25**
Yellow PolyTac	6 oz.	**02402**	**$50.25**

Manufacturer's Warranty Limited Lifetime

Streamlight® PolyTac® LED Helmet Lighting Kit
7738

Designed for use with traditional and modern style helmets, this kit includes a PolyTac LED flashlight that attaches to your helmet using either an aluminum helmet mount or a high-strength rubber helmet strap. The PolyTac flashlight utilizes a shock-resistant C4® LED that delivers 9,500 candela peak beam intensity and 275 lumens measured system output. **TEN-TAP® Programming lets you select from three operating modes:** high/strobe/low, high only, or low/high. A push-button tailcap switch allows for easy operation even when wearing gloves, and the high-impact nylon polymer body ensures outstanding durability. IPX7 rated design. Waterproof to 1 meter for 30 minutes. Manufacturer's limited lifetime warranty. Meets NFPA 1971-8.6 (2007) requirements.

Output: High, 275 lumens; Low, 14 lumens. **Beam Distance:** High, 195m; Low, 45m. **LED Life:** 50,000 hours. **Power:** two 3V CR123A Lithium batteries (included). **Run Time:** High, 3 hours; Low, 65 hours; Strobe, 5.5 hours. **Weight:** 4.2 oz. **Length:** 5.34″.

Streamlight PolyTac LED Helmet Lighting Kit	11 oz.	**02464**	**$69.75**

Streamlight® LiteBox® Rechargeable Lamp
6220

80,000 Candela

Transmits a high intensity spotlight of over 80,000 candela. 8W spot halogen lamp adjusts from horizontal to 90° skyward. Sealed lead-acid battery recharges 500 times and runs nine hours between charges. High-impact, ABS plastic housing. Includes battery, 120V AC charger for household plug, 12V DC charger for automotive plug, and AC/DC recharging rack.

Recharging time: 8 to 10 hours. **Dimensions (approx.):** 11-1/2″L x 5″W x 7″H.

Streamlight LiteBox Rechargeable Lamp	10 lbs.	**02246**	**$171.50**
		2+	**$155.75**
Replacement Rechargeable Battery	4 lbs.	**02247**	**$50.75**
E-Flood Upgrade - Six C4® LEDs and wide pattern parabolic reflectors produce a uniform flood pattern.	2 lbs.	**02423**	**$74.25**
E-Spot Upgrade - Three C4® LEDs and deep dish wide pattern parabolic reflectors produce a large spot pattern.	2 lbs.	**02430**	**$55.95**

Manufacturer's Warranty Limited Lifetime

Streamlight® LiteBox® LED Rechargeable Lanterns
7919

High or low setting to choose between more light or increased runtime. Polycarbonate lens with scratch-resistant coating. 6V, 12Ah sealed lead acid battery recharges up to 500 times. Serialized. IPX4 rated. Includes AC/DC charge cords, shoulder strap, and charge rack. Charge rack meets NFPA 1901-14.1.11.2 (2003). **LED Life:** 50,000 hours. **Dimensions:** 11.5″L x 5.1″W x 7″H.

Streamlight® E-Spot® Lite Box® – Uses three C4® LEDs to spotlight an area with focused bright light.

Light Output: High, 540 lumens; Low, 330 lumens. **Run Time:** High, 7 hours; Low, 15 hours.

E-Spot LiteBox	11 lbs.	**02398**	**$191.25**

Streamlight® E-Flood® LiteBox® – Uses six C4® LEDs to flood an entire area with uniform bright light.

Light Output: High, 615 lumens; Low, 330 lumens. **Run Time:** High, 8 hours; Low, 18 hours.

E-Flood LiteBox	11 lbs.	**02397**	**$207.25**

Streamlight® Vulcan® Waterproof Lamp
6222

Up to 31,000 candela peak beam intensity (50 lumens) for over 3 hours, and it's waterproof! Sealed beam system, tough ABS construction, sparkless electric switch, a quick release strap, and soft grip rubber handle. Serialized for identification. Rechargeable up to 500 times. Meets Class I Division 2 standards. 120Volt AC and 12 volt DC chargers, shoulder strap and charging rack included. **Dimensions:** 7.5″L x 5″W x 6.5″H.

Streamlight Vulcan Waterproof Lamp	6 lbs.	**02403**	**$136.95**
		2+	**$126.50**
Replacement Battery for 02403	2 lbs.	**02404**	**$41.95**
Repl. 8 Watt Lamp for 02403	1 oz.	**02250**	**$9.95**

Streamlight® Fire Vulcan® LED Waterproof Lamp

Two bright taillight LED's ensure you are seen from any direction. Features a powerful C4® LED (50,000 hour lifetime) producing an ultra-bright beam. A toggle switch easily goes between strobe and steady modes.

Streamlight Fire Vulcan Waterproof LED Lamp	5 lbs.	**02405**	**$211.50**
		2+	**$193.75**
Replacement Battery for 02405	7 oz.	**02426**	**$50.95**

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PELICAN™

New! Pelican™ 3315 LED Flashlight
4941

Lightweight and compact, this flashlight uses a super-bright LED to produce 110 lumens of output. Safety approved for the most volatile work environments, the flashlight meets Class I, II, III Division 1 and GP ABCDEFG T4 Exia. IPX7 Waterproof. Limited lifetime warranty from the manufacturer. Lanyard included.

Output: 110 lumens. **Beam Distance:** 164m. **Power:** 3 AA alkaline batteries (included). **Run Time:** 19 hours. **Length:** 6.14″.

Pelican 3315 LED Flashlight	8 oz.	**02158**	**$36.50**

New! Pelican™ ProGear™ 2350 LED Flashlight
2417

One of the brightest flashlights in its class, the 2350 produces 100 lumens of concentrated light output in High mode. Features a High/Strobe/Low switch, a faceted aerospace-grade aluminum body, and a removable clip. Measuring just 4.23″, this compact light easily fits in your pocket. IPX7 Waterproof.

Output: High, 100 Lumens; Low, 10 Lumens. **Beam Distance:** High, 141m; Low, 44m. **Power:** 1 AA Alkaline Battery (included). **Run Time:** High, 1 hour 45 minutes; Low, 15 hours. **Length:** 4.23″.

Pelican ProGear 2350 LED Flashlight	5 oz.	**02128**	**$36.25**

Pelican™ ProGear™ 2360 LED Flashlight
2417

Operating on AA alkaline batteries, the 2360 LED emits a peak output of 250 lumens. Constructed with the most durable of materials, it features an aerospace grade aluminum body and an impact resistant LED lamp module. Select High or Low light output with a push of the tail button. The non-slip textured body assures secure handling while the removable two-way pocket clip securely attaches to your pocket or the brim of a hat.

Output: High, 250 Lumens; Low, 24 Lumens. **Beam Distance:** High, 151m; Low, 45m. **Power:** 2 AA Alkaline Batteries (not included). **Run Time:** High, 2.15 hours; Low, 19 hours. **Length:** 6.1″.

Pelican ProGear 2360 LED Flashlight	7 oz.	**04037**	**$46.31**
AA cell Alkaline Batteries, pack of 4	7 oz.	**02352**	**$3.25**

Pelican™ Stealthlite 2400
2420

The unique easy slide thumb switch is easy to operate, even with gloves. The tough resin body is corrosion proof and resistant to extreme temperatures. The Xenon lamp produces a bright beam that penetrates thick smoke, fog, and dust. This light is submersible.

Output: 45 Lumens. **Beam Distance:** 125m. **Power:** 4 "AA" Alkaline Batteries (included). **Run Time:** 10 hours. **Water Resistant:** IPX7.

Pelican Stealthlite 2400	8 oz.	**04036**	**$33.75**

Pelican™ Super SabreLite® Submersible Flashlight
6173

Features UL Class I, Division I safety approval. Watertight to 500 ft. Exclusive state-of-the-art Laser Spot Xenon lamp module produces a tightly focused collimated white light beam with 400% increased net candlepower. Housing is made of unbreakable ABS with high impact polycarbonate lens. Built-in belt clip and wrist lanyard.

Lumens: 53. **Battery life (continuous use):** 5 hours. **Bulb life (continuous use):** 30 hours. 7-3/16″L. **Power:** 3 C cell batteries (not included).

Pelican Super SabreLite Submersible Flashlight	7 oz.	**04026**	**$36.25**
		6+	**$34.25**
Replacement Lamp	1 oz.	**04027**	**$12.25**
C cell Alkaline Battery, single	3 oz.	**02181**	**$1.85**

Bucket Boss® Tool Bags
pages 714 & 715

Princeton Tec® AMP™ 1L LED Flashlight
2964

This compact flashlight utilizes a powerful Maxbright LED, and a large carabiner loop allows for easy attachment to your gear using a lanyard or carabiner (not included). Rubber overmold provides a sure grip. The snap-on cone attachment transforms the flashlight into a marker light. Waterproof to 100 meters.

Power: 45 lumens. **Lamp:** Maxbright LED. **Burn Time:** 72 hours. **Batteries:** 2 AAA alkaline (included). **Color:** Yellow. **Length:** 4″. **Weight:** 2 oz.

Princeton Tec AMP 1L LED Flashlight	3 oz.	**02169**	**$14.50**

Princeton Tec® League™ 100 Flashlight
2966

Lightweight yet rugged, the League 100 is waterproof to 100 meters and features a Maxbright LED that provides brilliant illumination. The large on/off switch is easy to operate even if you're wearing gloves, and the 12 degree angled head makes the light feel like a natural extension of your hand. Molded ribs and an overmolded bezel ensure an excellent grip. Features a large strap loop for double-ended clip or included lanyard.

Power: 210 lumens. **Lamp:** One Maxbright LED. **Distance:** 181 meters. **Burn Time:** 10 hours. **Batteries:** 4 AA alkaline (included). **Color:** Yellow. **Weight:** 7.2 oz.

Princeton Tec League 100 Flashlight	10 oz.	**02172**	**$49.99**

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Cyclops® Orion Tilt LED Hat Clip Light
8647

This clip-on light features five super bright LED's that produce 30 lumens of light output. Two interchangeable light modules let you choose between white or green bulbs. A 45 degree tilt function helps you aim the light beam precisely where you need it. The contoured light fits securely on cap brims and will not obstruct your line of vision. Two CR-2032 batteries (included) provide 120 minutes of burn time.

Cyclops Orion Tilt LED Hat Clip Light	3 oz.	**02118**	**$12.95**

Nite Lite® Wizard Series Rechargeable Head Light System
6198

Can also be used as a hand-held or belt-mounted light!

Includes a bright head lamp with adjustable beam, heavy-duty 6V, 4 amp hour rechargeable battery pack, corduroy cloth cap, and two rechargers – one for home and one for your auto. The Wizard's creatively designed head lamp also attaches to the battery pack which doubles as a hand-held or belt-mounted lantern. The cap is specially designed to securely hold the head lamp and keep power cords out of your way. The entire system includes an adjustable lamp, battery pack, cap, power cord extension, and home/auto rechargers. **Battery life (approx.):** 5 hours per charge.

Wizard Head Light with Corduroy Cap	4 lbs.	**02105**	**$84.95**
Replacement Battery for Wizard Head Light	2 lbs.	**02106**	**$45.95**

Energizer® Lithium Batteries page 683

New! Princeton Tec® Sync® Headlamp
8484

Simply twist the power dial for fast access to flood beam (high or low), spot beam, or red LED mode. When maximum illumination is needed, switch to dual beam mode which employs both spot and flood beams simultaneously. Featuring a stable asymmetrical single arm bracket, you can aim the headlamp's light beam precisely where you want it.

Output: 90 lumens. **Lamp:** One Maxbright LED with Spot Beam, one Maxbright LED with Flood Beam, one Red Ultrabright LED. **Burn Time:** Dual Beam, 100 hours; Spot, 120 hours; High Flood, 125 hours; Low Flood, 150 hours; Red, 200 hours. **Power:** 3 AAA alkaline batteries (included). **Weight:** 3 oz.

Princeton Tec Sync Headlamp	4 oz.	**02391**	**$29.99**

New! Princeton Tec® Vizz™ Headlamp
4826

Made in USA

This versatile headlamp features three distinct beam profiles - all accessible with a single switch! A Maxbright LED generates a powerful spot beam for long-distance illumination. Two white Ultrabright LEDs provide a dimmable flood beam, and two red Ultrabright LEDs supply close-range lighting while preserving night-adjusted vision. The translucent power switch functions as a low battery indicator, and a triple press of the switch locks all lighting modes to prevent accidental turn on of the headlamp. IPX7 Waterproof. Made in the USA.

Power: 165 lumens. **Burn Time:** one Maxbright LED, 110 hours; two white Ultrabright LEDs, 120 hours; two red Ultrabright LEDs, 160 hours. **Batteries:** 3 AAA alkaline batteries (included). **Weight:** 3.25 oz. with batteries.

Princeton Tec Vizz Headlamp, Green	4 oz.	**02149**	**$46.50**

02170

Princeton Tec® Corona Headlamp
2965

The Corona uses regulated LEDs to flood your entire field of vision with an even distribution of light. Outstanding peripheral lighting imitates normal daylight conditions, and a wide light beam reduces eye fatigue. Features 8 shock-resistant, wide-angle Ultrabright LEDs. Choose from 8, 5, 3, or 1 LED output. Heatsink technology prevents overheating of the LEDs. Meets UL Class 1, Division 2, Groups A, B, C, and D.

02171

Power: 90 lumens. **Lamp:** eight Ultrabright LEDs. **Burn time:** 70 hours, depending on brightness level. **Batteries:** 3 AA alkaline.

Princeton Tec Corona Headlamp, Black	11 oz.	**02170**	**$49.95**
Princeton Tec Corona Headlamp, Green	11 oz.	**02171**	**$49.95**

Energizer® LED Headlights
4422

Energizer

Manufacturer's Warranty Lifetime

ABS plastic housing for extra durability and adjustable headband. Powered by 3 AAA batteries (included). Manufacturer's Lifetime guarantee.

6 LED Industrial® Headlight

36 Lumens

This rugged headlight features six LEDs (two white spot, two white flood, and two red for night vision) and a multiple position push button switch. The adjustable headband features strips that reflect in low light and handy pencil holders.

Energizer 6 LED Industrial Headlight	7 oz.	**02270**	**$25.25**

3 LED Headlight

20 Lumens

Equipped with three bright LED bulbs—two whites for super bright light and one red for night vision—and shatterproof lens. Features a three-position slide switch. Lifetime guarantee from the manufacturer.

Energizer 3 LED Headlight	4 oz.	**02259**	**$19.95**

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Princeton Tec

Princeton Tec® Quad® II Headlamp

8257

This intrinsically safe headlamp features two modes and uses four Ultrabright LEDs to provide a wide light beam, allowing you to work easily without glare or reflection. The Quad II features waterproof housing and can withstand water submersions up to 1 meter. Includes a rubber strap for hard hat use and a nylon strap for standard headlamp use. Meets UL Class 1, Division 1, Groups A, B, C, and D.

Power: 78 lumens. **Lamp:** four Ultrabright LEDs. **Burn time:** 110 hours, depending on brightness level. **Batteries:** 3 AAA alkaline (included).

Princeton Tec Quad II Headlamp	6 oz.	**02173**	**$43.95**

Princeton Tec

Princeton Tec® Quad® Headlamp

8257

Powered by four Ultrabright LEDs, this lightweight headlamp delivers constant brightness in all four modes and rotates 90° to provide illumination where you need it. The Quad features waterproof housing and can withstand water submersions up to 1 meter as well as severe impacts. A built-in battery tray allows for easy installation and protection of your batteries. Meets UL Class 1, Div. 2.

Power: 78 lumens. **Lamp:** four Ultrabright LEDs (Regulated). **Burn time:** 105 hours, depending on brightness level. **Batteries:** 3 AAA alkaline or lithium.

Quad Headlamp	5 oz.	**02176**	**$32.50**
AAA cell, pack of 4	2 oz.	**02362**	**$3.25**

Princeton Tec

Princeton Tec® EOS 4-Mode Headlamp

3882

Ideal for both localized needs and spotting at a distance. The EOS combines a Luxeon/1 watt L.E.D. and the Princeton Tec designed optimized lens/collimator to maximize the beam by balancing long throw with flood light. Equipped with three brightness levels and a blinking emergency/signaling mode, each level provides true current regulation ensuring that the EOS will remain at constant brightness as long as the batteries have sufficient voltage. The use of high grade materials ensures durability. Waterproof to 1 meter. Meets UL Class 1, Div. 2.

Power: 105 lumens. **Lamp:** 1 watt Luxeon LED. **Burn Time:** 121 hours, depending on brightness level. **Batteries:** 3 AAA Alkaline. **Weight:** 3.7 oz. with Batteries.

EOS 4-Mode Headlamp	5 oz.	**02229**	**$39.95**
AAA cell, pack of 4	2 oz.	**02362**	**$3.25**

Princeton Tec

Princeton Tec® Remix™ Headlamp

7544

Compact and versatile, this headlamp meets your requirements for both long distance spotting and close range area lighting by utilizing a single MAXBRIGHT LED and three Ultrabright LEDs. Other features of this water-resistant headlamp include an asymmetrical single arm bracket, large push button switch, and easy access battery door enclosure.

Power: 125 lumens. **Lamp:** one MAXBRIGHT LED and three Ultrabright LEDs. **Burn time:** 200 hours. **Batteries:** 3 AAA alkaline (included). **Weight:** 3 oz. (with batteries).

Princeton Tec Remix Headlamp	4 oz.	**02224**	**$36.50**

Princeton Tec

Princeton Tec® Yukon® HL Headlamp

2756

This all-LED headlamp provides outstanding brightness and beam distance. Use the three Ultrabright LEDs when an extended burn time is needed. For spotting at a distance, use the Maxbright 1 watt LED. A compact battery pack is mounted on the comfortable, adjustable elastic webbing. Water resistant. Meets UL Class 1, Div. 2.

Lumens: 78. **Power:** 3 AA batteries (included). **Burn Time:** 120 hours.

Princeton Tec Yukon HL Headlamp	11 oz.	**02192**	**$58.50**

Princeton Tec

Princeton Tec® Apex™ Headlamp

8256

Waterproof to 1 meter and impact-resistant, this versatile LED headlamp features four light levels and a safety flash mode. A dual switch allows you to independently control the intense, long-range lighting from the Maxbright LED and the wide-angle, close-range illumination from four Ultrabright LEDs. The Apex also features proprietary heatsink technology that enables the LEDs to burn brighter and longer. An overmolded elastometer eliminates pressure points on the head for superior comfort. Meets UL Class 1, Div. 2.

Power: 260 lumens. **Lamp:** one Maxbright 3-watt (regulated), four Ultrabright LEDs (Regulated). **Burn time:** 150 hours. **Batteries:** 4 AA alkaline, lithium, or NiMH rechargeable.

Princeton Tec Apex Headlamp	14 oz.	**02174**	**$77.50**

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PELICAN™ You break it, we replace it... forever.

New! Pelican™ 2760 LED Headlight

4942

Lightweight, super bright, and versatile, this headlight features high, low, flashing, downcast, and night vision red LED modes. A built-in LED indicates the battery level, and the headlight's housing is IPX4 water resistant.

Light Output: High, 133 lumens; Low, 90 lumens; Downcast, 40 lumens; Flashing, 93 lumens. **Run Time:** High, 2 hours 15 minutes; Low, 3 hours 30 minutes; Downcast, 14 hours; Flashing, 5 hours. **Beam Distance:** High, 117 meters; Low, 86 meters; Downcast, 18 meters; Flashing, 117 meters. **Power:** 3 AAA alkaline batteries (included). **Length:** 2.25″. **Weight:** 3.4 oz. with batteries.

Pelican 2760 LED Headlight	5 oz.	**02152**	**$41.50**

PELICAN™ You break it, we replace it... forever.

Pelican™ 2690 LED HeadsUP Lite

2418

Brighter, more efficient, compact and lighter than other headlamps in its class! Rotary bezel switch operates easily, even when wearing bulky gloves. Made of impact- and chemical- resistant ABS plus it is water resistant for all-weather use. Comes with an adjustable cloth strap, as well as a heavy duty rubber strap that will not slip off your helmet.

Output: 60 Lumens. **Beam Distance:** 81m. **Power:** 3 "AAA" Alkaline Batteries (included). **Run Time:** 10 hours. **Water Resistant:** IPX7.

Pelican 2690 LED HeadsUP Lite	8 oz.	**02142**	**$29.95**

PELICAN™ You break it, we replace it... forever.

Pelican™ 2720 LED Headlight

4731

Turn on this headlight with just a wave of your hand using the Gesture Activation Control function! The headlight features variable light output ranging from 100% to 10%, a low level red LED that preserves night vision during nighttime operation, and a signaling red (S.O.S.) beacon light. Optical 4x magnification allows for a wide or narrow beam, and the 90° pivoting head lets you direct the light beam exactly where you need it. A foam forehead pad increases comfort during use. Water resistant to IPX4 standards.

Light Output: High, 80 lumens; Low, 5 lumens. **Run Time:** High, 8 hours; Low, 175 hours. **Beam Distance:** High, 56 meters; Low, 15 meters. **Peak Intensity:** High, 790 candela; Low, 60 candela. **Voltage:** 4.5. **Power:** 3 AAA batteries (included). **Length:** 2.48″. **Weight:** 3.8 oz. with batteries.

Pelican 2720 LED Headlight	8 oz.	**02137**	**$47.23**

PELICAN™ You break it, we replace it... forever.

Pelican™ Heads Up Lites™

6724

Model 2600RS

This hands-free light provides 10,000 candlepower precisely where needed. The light can be rotated up and down and stays put with the special ratcheted locking system. Made of durable, corrosion resistant ABS polymer, the light is water-resistant. The expandable, hypo-allergenic heat-resistant silicone rubber strap attaches easily to helmets and hard hats. A second strap is also included for use when not wearing a hard hat. Features two Krypton® lamps, one hi-intensity and one low-intensity. FM, CSA, and MSHA approved. 4 AA batteries and spare lamp included.

Color: Non-glare black. **Dimensions:** 5-1/8″L.

Model 2600RS	1 lb.	**02122**	**$43.50**
		6+	**$40.50**
Replacement Low Intensity Lamp	1 oz.	**02123**	**$4.95**
Replacement High Intensity Lamp	1 oz.	**02129**	**$4.95**

Model 2620RS

Versatile and rugged, this light provides a combination of three LEDs (6,000 candlepower) for up-close work and a Xenon lamp (10,000 candlepower) for general use. The water-resistant light features an ABS resin body and shroud and a rubber strap which easily attaches to helmets and hard hats. A second strap is also included for use when not wearing a hard hat. UL Class I Division 2 approved. 3 AAA batteries included.

Battery burn time: LEDs, 80 hours; Xenon, 2 to 3 hours. **Color:** Non-glare black.

Model 2620RS	9 oz.	**02134**	**$37.95**

Model 2640RS

This lightweight light features a super bright Halogen lamp (10,000 candlepower) and three LEDs (6,000 candlepower) which provide 100,000 hours of use. The light features a multi-angle pivoting head and a focusable light beam. Water-resistant, the light's body is constructed of tough ABS resin. The rubber strap is ideal for attaching to your helmet or hard hat. A second strap is also included for use when not wearing a hard hat. UL Class I Division 2 approved. 4 AA batteries included.

Battery burn time: LEDs, 50 hours; Halogen, 3 hours. **Color:** Non-glare black.

Model 2640RS	1 lb.	**02131**	**$39.95**
		6+	**$37.50**
Extended Duty 4D Battery Hip Pack – for use with 02131	9 oz.	**02132**	**$9.95**

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Streamlight® Enduro® LED Headlamp
7236

Manufacturer's Warranty Limited Lifetime

This rugged LED headlamp features two lighting modes and a solid-state power regulator that provides maximum light output. In addition to a rubber/elastic headstrap, the versatile headlamp also features a clip that attaches to the brim of a hat, coat lapel, or car visor. The impact-resistant, drop-tested polycarbonate housing features o-ring sealed construction and is waterproof for one meter for one hour. Manufacturer's limited lifetime warranty.

LED Rating: High, up to 850 candela (peak beam intensity), 14.5 lumens; Low, 6 lumens. **LED Life:** 100,000 hours. **Run Time:** High, up to 6 hours; Low, up to 12 hours. **Power:** 2 AAA batteries (included).

Streamlight Enduro LED Headlamp	5 oz.	**02303**	**$17.50**

Streamlight® Septor® LED Headlamp
2949

Manufacturer's Warranty Limited Lifetime

Rugged and versatile, this headlamp offers your choice of three lighting modes using one, three, or seven ultra-bright white LEDs. The low battery indicator uses a flashing red LED to signal that battery voltage is low and batteries are near the end of their usable life. Features a 90° tilting head, push-button switch for easy use when wearing gloves, unbreakable polycarbonate lens, and tough ABS plastic case. Adjustable elastic head strap and rubber hard hat strap included. IPX4 rated for water-resistance and 2 meter impact resistance tested. Limited lifetime warranty from the manufacturer.

Light Output: 7 LEDs, 120 lumens, 900 candela peak beam intensity, 60 meter beam distance; 3 LEDs, 45 lumens, 375 candela peak beam intensity, 35 meter beam distance; 1 LED, 13 lumens, 100 candela peak beam intensity, 20 meter beam distance. **LED Life:** 100,000 hours. **Runtime:** 7 LEDs, 3.5 hours; 3 LEDs, 10 hours; 1 LED, 55 hours. **Power:** 3 AAA Alkaline batteries (included). **Weight:** 5.5 oz.

Streamlight Septor LED Headlamp	8 oz.	**02415**	**$35.95**

New! Streamlight® ProTac HL® LED Headlamp
4944

Manufacturer's Warranty Limited Lifetime

Offering superior illumination and a wide flood beam, this headlamp produces 540 lumens of output that reaches up to 172 meters. The 90° tilting head reduces neck fatigue, and both a rubber helmet strap and an adjustable elastic headstrap are included. A TEN-TAP® programmable switch lets you select from three programs: high/medium/low, high only, and low/medium/high. Solid state power regulation ensures maximum light output throughout the battery life. Constructed of anodized aluminum and features a gasket-sealed glass lens. IPX4 water-resistant and 1 meter impact resistance tested. Limited lifetime warranty from the manufacturer.

Light Output: High, 540 lumens, 7,400 candela peak beam intensity, 172 meter beam distance; Medium, 95 lumens, 1,200 candela peak beam intensity, 69 meter beam distance; Low, 18 lumens, 250 candela peak beam intensity, 31 meter beam distance. **LED Life:** 50,000 hours. **Runtime:** High, 1.75 hours; Medium, 8 hours; Low, 36 hours. **Power:** Two 3V CR123A lithium batteries (included). **Weight:** 6.6 oz.

Streamlight ProTac HL LED Headlamp	9 oz.	**02416**	**$79.50**

Streamlight® 3AA HAZ-LO® Headlamp
8389

Manufacturer's Warranty Limited Lifetime

Class I, Division 1 safety rated for use in hazardous environments.

This high-performance headlamp meets the stringent requirements of Class I, Division 1 and utilizes a C4® LED to provide outstanding light output. Intrinsically safe for use in environments containing hazardous gases, vapors, and liquids, the headlamp features impact-resistant housing that is drop test verified. The headlamp features an unbreakable polycarbonate lens, a water-resistant design, a 90° tilting head, and both an elastic head strap and a rubber hard hat strap. Manufacturer's limited lifetime warranty.

LED rating: 120 Lumens typical. **Power:** three AA alkaline batteries (included). **Run time:** up to 11 hours, declining output to 25% intensity.

Streamlight 3AA HAZ-LO Headlamp	9 oz.	**02295**	**$50.95**

Streamlight® Argo® C4® LED Headlamp
3880

Manufacturer's Warranty Limited Lifetime

Far-reaching beam illuminates up to 190 meters away!

This sophisticated light features a C4® LED that provides you with the longevity of an LED and the brightness and range of a conventional bulb. Lightweight and efficient, the headlamp offers three brightness levels (high, medium, and low). A red LED low battery indicator flashes to alert you when battery voltage is low and the batteries are near the end of their usable life. The 90° tilting head prevents neck fatigue, and the multi-function push-button switch allows for easy operation even when wearing gloves. Includes both elastic and rubber headstraps. IPX4 Water-resistant and 2 meter impact resistance tested. Manufacturer's limited lifetime warranty.

Lumens: High, 150; Medium, 100; Low, 45. **Runtime:** High, 3 hours; Medium, 4.5 hours; Low, 30 hours. **Battery:** 3 AAA Alkaline batteries (included). **Weight:** 5.40 oz. (with batteries).

Streamlight Argo C4 LED Headlamp	8 oz.	**02213**	**$39.25**
		6+	**$35.75**

Streamlight® Trident® Headlamp
2691

Manufacturer's Warranty Limited Lifetime

Combining a center C4® LED and three white 5mm LEDs, the Trident offers both high power lighting and longevity. Use a single 5mm LED for short range lighting, all three 5mm LEDs for more intense brightness, or the C4 LED for super-bright distance lighting. The low battery indicator utilizes a flashing red LED to alert you when battery voltage is low and batteries are near the end of their usable life. A 90° tilting head allows you to zero-in on your target, and the multi-function push-button switch is easy to operate even when you're wearing gloves. Includes an adjustable elastic head strap and a rubber hard hat strap. IPX4 Water-resistant and 2 meter impact resistance tested. Manufacturer's limited lifetime warranty.

Lumens: C4 LED, 80; Three LEDs, 35; One LED, 11. **Runtime:** C4 LED, 5 hours; Three LEDs, 10 hours; One LED, 53 hours. **Power:** 3 AAA Alkaline batteries (included). **Weight:** 5.5 oz. (with batteries).

Streamlight Trident Headlamp	8 oz.	**02214**	**$30.75**
		6+	**$28.50**

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3 Manufacturer's Warranty 3 Year

New! Petzl® Tikkina® Headlamp
7795

Versatile and lightweight, this headlamp features two lighting modes (proximity and ambient) and produces up to 60 lumens with a range of 30 meters. Features a push-button switch and an adjustable elastic headband that is washable. IPX4 weather-resistant. Three-year manufacturer's warranty.

Lumens: Proximity, 60; Ambient, 15. **Beam Distance:** Proximity, 30m; Ambient, 15m. **Power:** 3 AAA batteries (included). **Burn Time:** Proximity, 120 hours; Ambient, 180 hours.

Petzl Tikkina Headlamp	4 oz.	**02448**	**$19.95**

3 Manufacturer's Warranty 3 Year

Petzl® Tikka® XP Headlamp
8149

Powerful yet compact, the Tikka XP features five lighting modes. Choose from three white lighting modes (maximum, economic, and flashing) and two red lighting modes (continuous and blinking). A wide angle lens allows for diffuse proximity lighting, and the headlight's beam can be aimed exactly where you need it. The water-resistant headlamp also features a battery level indicator and an adjustable elastic headband. CE Certified. Three-year manufacturer's warranty.

Lumens: Constant mode, 120; Boost mode, 160. **Power:** 3 AAA batteries (included). **Battery Life:** up to 68 hours on maximum setting.

Petzl Tikka XP Headlamp	5 oz.	**02293**	**$54.95**

Petzl® Duo LED 5
3736

Water resistant headlamp with dual light source!

The 5 LED light source provides even, white close-up lighting with long battery life while the halogen light source is excellent for long-range lighting. The halogen light source has an adjustable focus for adjusting the width of the beam of light. For ease of use, the beam adjustment control and the on/off switch are situated on opposite sides of the lighting unit. Other features include a locking on/off switch, stainless steel contacts, and an adjustable elasticized ergonomic head-strap system. Operates on 4 AA/LR6 1.5V batteries. A spare halogen bulb is included. Meets and exceeds the specifications for use in confined space. Meets UL Class 1, Div. 1, Group D, T3; UL Class 1, Div. 2, Groups A, B, C, D, T3; UL Class II, Div. 2, Groups G, G, T3.

Petzl Duo LED	14 oz.	**02228**	**$122.00**
AA cell Alkaline Batteries, pack of 4	7 oz.	**02352**	**$3.25**

Streamlight® Fire Vulcan® LED Waterproof Lamp
page 694

MSA® V-Gard Hats
page 605

Petzl® e+Lite® Headlamp
8386

10 Manufacturer's Warranty 10 Year

Small but powerful, this pivoting headlamp swivels 360° so that you can aim the beam precisely where you need it. The headlamp features three white LEDs (with two brightness levels and a strobe) which provide lighting up to 29 meters away and one red LED (with one brightness level and a strobe). The ZIP retractable cord allows the headlamp to be worn on your head or around your wrist or neck. You can also attach it to thin-edged articles using the integrated clip. Waterproof to 1m. Ten-year manufacturer's guarantee. Two CR2032 batteries and protective case included. **Lumens:** 26. **Burn Time:** 70 hours.

Petzl e+Lite Headlamp	3 oz.	**02198**	**$29.95**

New! Petzl® PIXA 3 Headlamp
7794

Durable and highly versatile, this headlamp features three lighting modes. The close-range work mode provides a wide, uniform beam that lights up to 15 meters away for 12 hours (30 lumens). A second mode adapted for movement features a mixed beam with a focused component that allows you to move around comfortably and illuminates out to 30 meters for 6 hours (40 lumens). The long-range vision mode boasts a highly focused beam that lights up to 55 meters away for 3 hours (50 lumens). The lamp body rotates 45°, and the mode selector dial is easy to use even when you're wearing gloves. Adjustable headband detaches for washing. Battery charge indicator flashes repetitively. Chemical resistant.

Waterproof: to -1 m for 30 minutes (IP 67), no maintenance required after immersion. **Reserve Lighting:** lights to 15 meters for a minimum of 10 hours. **Power:** 2 AA/LR6 batteries (included), compatible with alkaline, lithium, rechargeable Ni-MH, and rechargeable Ni-Cd batteries. **Certifications:** CE; ATEX - CE0080, Ex II 3 GD, Ex nAnL IIB T4; HAZLOC - Class I Groups C & D Div II, Class II Group G Div II; ANSI/NEMA FL1.

PIXA 3 Headlamp	9 oz.	**02175**	**$74.95**

Petzl® PIXA 2 Headlamp
7794

Designed for close-range work as well as movement. The close-range work mode has a mixed beam with wide, uniform base and lights to 20 meters for 12 hours (30 lumens). The movement mode has a mixed beam with focused component in upper part of the beam allowing the user to move around comfortably and lights to 30 meters for 6 hours (40 lumens). Adjustable headband detaches for washing. Battery charge indicator flashes repetitively. Chemical resistant.

Waterproof: to -1 m for 30 minutes (IP 67), no maintenance required after immersion. **Reserve Lighting:** lights to 10 meters for a minimum of 10 hours. **Power:** 2 AA/LR6 batteries (included), compatible with alkaline batteries, rechargeable Ni-MH and Ni-Cd batteries, and lithium batteries. **Certifications:** ATEX - CE0080, Ex II 3 GD, Ex nAnL IIB T4; HAZLOC - Class I Groups C & D Div II, Class II Group G Div II, Operating Temperature code T4.

PIXA 2 Headlamp	8 oz.	**02183**	**$59.95**

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GERBER

Gerber® Hinderer Rescue Knife

8096

Designed by a firefighter. Even while wearing turn-out gloves, using this knife is not an issue. The knife has larger, beefier features and mechanisms built-in including an oxygen tank valve opener, a seat belt cutter, and a window punch. A 9-piece tool kit is also included.

Overall Length: 8.5″. **Length Closed:** 5.1″. **Length of Blade:** 3.5″. **Weight:** 5.6 oz.

Gerber Hinderer Rescue Knife	10 oz.	**25260**	**$82.95**

GERBER

Gerber® Hinderer CLS Rescue Knife

8096

This Combat Life Saver model has a non-reflective black finish designed for tactical applications. Features a combination 440A stainless steel fine and serrated blade with sharpened tip. Features an oxygen tank valve opener, a seat belt cutter, and a window punch.

Overall Length: 8.5″. **Length Closed:** 5.1″. **Length of Blade:** 3.5″. **Weight:** 5.6 oz.

Gerber Hinderer CLS Rescue Knife	6 oz.	**25261**	**$67.95**

GERBER

Gerber® E-Z Out™ Rescue Knife

2560

The E-Z Out Rescue Knife has a fully serrated blade with a rounded safety tip. A hole in the blade allows for quick, one-handed opening. The high-visibility yellow nylon handle features black Kraton® non-slip rubber inserts and a removable stainless steel pocket clip.

Overall Length: 8″. **Length Closed:** 4.62″. **Length of Blade:** 3.5″. **Weight:** 3 oz.

Gerber E-Z Out Rescue Knife	3 oz.	**25288**	**$33.95**
	3+		**$31.95**

GERBER

Gerber® Fast Draw™ Knife

8677

The Fast Draw utilizes a spring-assisted opening mechanism to open easily using a thumb stud or by triggering with your index finger. This folding knife features a textured handle for extra grip, reversed pocket clip, serrated edge blade, and an integrated safety and lock release.

Blade: 2.99″. **Overall length:** 7.13″; closed length is 4.17″. **Weight:** 3.6 oz.

Gerber Fast Draw Knife	4 oz.	**25263**	**$32.50**

GERBER

Manufacturer's Warranty Limited Lifetime

Gerber® L.S.T.® Knife

Made in USA

6137

Features a nearly unbreakable fiberglass handle with stainless steel pins and 2-3/4″ blade. Knife measures 6-1/8″ open, 3-1/2″ closed and weighs just over an ounce. Limited lifetime warranty from the manufacturer. Made in the U.S.A.

Blade: 2-3/4″. **Overall length:** 6-1/8″; closed length is 3-1/2″.

Gerber L.S.T. Knife	3 oz.	**35598**	**$19.95**

Stainless Steel Boning Knives

2822

These knives provide control, reliability and a precision edge! Forged from high-carbon chrome molybdenum stainless steel, these boning knives deliver razor sharpness time and again. Blades extend the length of the handle for control and reliability. Backed by a lifetime warranty from the manufacturer against defects in materials or workmanship.

Stainless Steel Curved Boning Knife, 5″, Narrow semi-flexible blade	4 oz.	**25154**	**$13.95**
Stainless Steel Curved Boning Knife, 6″, Wide stiff blade	4 oz.	**25157**	**$15.25**

BENCHMADE

Benchmade® HoudiniPro™ Emergency Rescue Tool

7504

Allows firefighters, police officers and other rescue personnel to get in and get people out fast! The retractable, robust cutting hook-blade slices through most cloth-like materials quickly, while its hook-like design features a blunt/rounded end that grabs the desired material easily and with precision, helping to prevent further injury during rescue. The hook-blade retracts much like most common pocket knives and locks into position upon full extension. The Pro also includes a spring-loaded glass breaking, self-arming, and hardened steel pin center punch. In addition, there is an integrated 5-lumen LED flashlight that can be used as a standalone flashlight, but has also been angled to the cutting hook when engaged and is intended to illuminate the material desired to be cut in the case of obstructive smoke and/or insignificant lighting.

HoudiniPro™ Emergency Rescue Tool	5 oz.	**25236**	**$38.25**

BENCHMADE

Manufacturer's Warranty Limited Lifetime

Made in USA

Benchmade® Triage™ Knife

7721

Ideal for use by rescue personnel, this versatile utility tool includes a knife, hook-shaped safety cutter, and glass breaker. The modified sheepsfoot style blade is constructed of N680 highly corrosion-resistant steel, features an ambidextrous thumb-stud opener, and employs the patented AXIS® locking mechanism. The textured safety orange handle features full stainless steel liners and a deep pocket reversible tip-up pocket clip. Limited lifetime warranty from the manufacturer. Made in the USA.

Blade Length: 3.50″. **Hook Length:** 2.00″. **Blade Thickness:** 0.130″. **Overall Length:** Open, 8.20″; Closed, 4.70″. **Weight:** 5.10 oz.

Benchmade Triage Knife, Plain Edge Blade	7 oz.	**25247**	**$148.75**
Benchmade Triage Knife, ComboEdge Partially Serrated Blade	8 oz.	**25278**	**$148.75**

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Ontario RAT™ Folder Knives
4750

Manufacturer's Warranty 1 Year

Rugged and reliable, these folding knives open quickly with one hand using the thumb stud. Blade is constructed of AUS-8 Steel. Ergonomic Nylon 6 handle provides a sure grip. Open post construction allows for easy cleaning. Features a liner lock, four-position pocket clip, and lanyard hole. One-year limited warranty from the manufacturer.

Blade Length: 3.5″. **Blade Thickness:** 0.12″. **Overall Length:** 8.5″. **Closed Length:** 4.5″. **Weight:** 5.0 oz.

RAT Folder, Partially Serrated, Black Blade	5 oz.	**33712**	**$33.50**
RAT Folder, Plain Edge, Black Blade	6 oz.	**33713**	**$33.50**

Ontario RAT™ Model II Folder Knives
4751

Manufacturer's Warranty 1 Year

A smaller version of the original RAT™, this durable folding knife features an AUS-8 Steel blade and an ergonomic Nylon 6 handle that ensures a sure grip. The knife opens smoothly with one hand using the reversible thumb stud, and open post construction allows for easy cleaning. Features a liner lock, four-position pocket clip, and lanyard hole. One-year limited warranty from the manufacturer.

Blade Length: 3″. **Blade Thickness:** 0.093″. **Overall Length:** 7″. **Closed Length:** 4″. **Weight:** 2.8 oz.

RAT Model II Folder, Plain Edge, Black Blade	3 oz.	**33714**	**$30.75**
RAT Model II Folder, Plain Edge, Satin Finish Blade	3 oz.	**33715**	**$29.95**

Ontario RAT™-3 1095 Knives
4752

Manufacturer's Warranty 1 Year

Built tough to withstand the most demanding conditions, this knife features a 1095 Carbon Steel fixed blade with a protective textured powder coating. The rugged Canvas Micarta handle offers a sure, comfortable grip. Includes a Kydex sheath with a boot clip and TekLok™ attachment points. The 2″x 2-3/4″ sheath snaps securely around belts up to 1-1/2″ wide. One-year limited warranty from the manufacturer.

Blade Length: 3.75″. **Blade Thickness:** 0.14″. **Overall Length:** 7.8″. **Weight:** 5.3 oz.

Ontario RAT-3 1095 Knife, Plain Edge	11 oz.	**33717**	**$85.50**
Ontario RAT-3 1095 Knife, Serrated Edge	11 oz.	**33718**	**$87.25**

Made in USA

Ontario Spec Plus® SP1 Marine Combat Knife
4753

Manufacturer's Warranty 1 Year

This rugged, fixed blade knife features a bowie-style clip-point tip. The 1095 Carbon Steel blade has an epoxy textured powder coated finish for durability, and the Kraton® handle provides a comfortable, secure grip. Full tang construction. Includes combination leather/Cordura® sheath with tie-down cord. One-year limited warranty from the manufacturer. Made in the U.S.A.

Blade Length: 7″. **Blade Thickness:** 0.19″. **Overall Length:** 12″. **Weight:** 10.0 oz.

Ontario Spec Plus SP1 Marine Combat Knife	1 lb.	**33719**	**$45.25**

Made in USA

Ontario Spec Plus® SP2 Air Force Survival Knife
4754

Manufacturer's Warranty 1 Year

With a bowie-style clip-point tip and serrated teeth on the spine, this knife is ideal for a variety of cutting applications. The knife's 1095 Carbon Steel fixed blade has an epoxy textured powder coated finish. A comfortable Kraton® handle provides a secure grip. Full tang construction. Includes combination leather/Cordura® sheath with tie-down cord. One-year limited warranty from the manufacturer. Made in the U.S.A.

Blade Length: 5.25″. **Blade Thickness:** 0.19″. **Overall Length:** 10.5″. **Weight:** 9.0 oz.

Ontario Spec Plus SP2 Air Force Survival Knife	15 oz.	**33720**	**$42.50**

Made in USA

Ontario SP10 Marine Raider Bowie Knife
7178

Features a 0.25″ thick epoxy powder-coated 1095 carbon steel blade that is 9.75″ long. Comfortable Kraton® handle. Lanyard included. Overall length is 15.125″. Includes leather/Cordura® sheath with tie-down cord. Made in the U.S.A.

Ontario SP10 Marine Raider Bowie Knife	2 lbs.	**33608**	**$64.95**

Machetes pages 222 and 223

Bahco® Multi-Purpose Knife
4605

This multi-purpose, robust knife features a stainless steel blade and a 2-component handle for comfort and a safe grip. Supplied with a sheath. **Overall Length:** 8.67″. **Blade Length:** 4″.

Bahco® Multi-Purpose Knife	4 oz.	**33625**	**$11.25**

Single Grit Pocket Stone
6140

For small axes, knives, or tree injector bits. Medium (fine) stone. 3″L x 7/8″W x 3/8″ thick.

Single Grit Pocket Stone	2 oz.	**63405**	**$6.50**

[search engine powered by magazooms.com]

BENCHMADE

Benchmade® Nimravus® Knife

7720

Manufacturer's Warranty Limited Lifetime

Made in USA

This ultra rugged fixed blade knife features a large finger groove for excellent control. Made of premium 154CM stainless steel, the drop-point ComboEdge® blade is partially serrated. The full-tang handle is constructed of anodized machined 6061 T-6 aluminum. Multi-function MOLLE® compatible MALICE CLIP™ and nylon sheath with leg ties included. Limited lifetime warranty from the manufacturer. Made in the USA.

Blade Length: 4.50″. **Blade Thickness:** 0.115″. **Overall Length:** 9.45″. **Weight:** 6.20 oz.

Benchmade Nimravus Knife	12 oz.	**25265**	**$157.25**

BENCHMADE

Benchmade Barrage and Mini-Barrage Knives

7719

Made in USA

Manufacturer's Warranty Limited Lifetime

These spring-assisted knives feature the exceptionally strong AXIS® locking mechanism with an integrated safety. The drop-point blade is constructed of premium grade 154CM stainless steel, and ambidextrous thumb-studs allow for easy opening. The rugged Valox® handle features double 420J stainless steel liners and a reversible bright split arrow clip. Limited lifetime warranty from the manufacturer. Made in the USA.

Barrage™

Blade Length: 3.60″. **Blade Thickness:** 0.121″. **Overall Length:** Open, 8.35″; Closed, 4.75″. **Weight:** 4.20 oz.

Barrage Plain Edge	6 oz.	**25242**	**$127.50**
Barrage ComboEdge® Partially Serrated	6 oz.	**25256**	**$127.50**

Mini-Barrage™

Blade Length: 2.91″. **Blade Thickness:** 0.100″. **Overall Length:** Open, 6.91″; Closed, 4″. **Weight:** 3.40 oz.

Mini-Barrage Plain Edge	5 oz.	**25254**	**$119.00**
Mini-Barrage ComboEdge® Partially Serrated	5 oz.	**25255**	**$119.00**

BENCHMADE

Benchmade® Griptilian® and Mini-Griptilian® Knives

7505

Made in USA

Manufacturer's Warranty Limited Lifetime

These rugged knives feature a patented AXIS® locking mechanism, an ambidextrous design, and a dual thumb-stud opener. The modified drop-point blade is constructed of premium grade 154CM stainless steel that offers superior corrosion resistance and edge quality. The tough Valox® handle features 420J stainless steel liners and a reversible steel carry-clip. Limited lifetime warranty from the manufacturer. Made in the USA.

Griptilian®

Blade Length: 3.45″. **Blade Thickness:** 0.115″. **Overall Length:** Open, 8.07″; Closed, 4.62″. **Weight:** 3.25 oz.

Griptilian Fine Edge	4 oz.	**25237**	**$97.75**
Griptilian ComboEdge® Partially Serrated	4 oz.	**25238**	**$97.75**

Mini-Griptilian®

Blade Length: 2.91″. **Blade Thickness:** 0.100″. **Overall Length:** Open, 6.78″; Closed, 3.87″. **Weight:** 2.56 oz.

Mini-Griptilian Fine Edge	4 oz.	**25239**	**$89.25**
Mini-Griptilian ComboEdge® Partially Serrated	4 oz.	**25241**	**$89.25**

KA-BAR Knives

KA-BAR Hunter Knives

7501

These classically designed field knives are stylish and practical! DIN 1.4116 stainless steel blade and leather handle. Leather sheath included.

Marine Hunter Knife

Overall Length: 10-3/4″; **Blade Length:** 5-7/8″

Marine Hunter Knife	1 lb.	**33604**	**$49.95**

Hunter Knife

Overall Length: 8-1/8″; **Blade Length:** 4″

Hunter Knife	7 oz.	**33605**	**$38.95**

KA-BAR Knives

KA-BAR USMC Utility Knife

7500

Made in USA

Boasting the most famous fixed-blade design in the world, each features a 1095 Cro-Van steel blade and a leather handle. Leather sheath included. Made in the USA.

Full-Size USMC Knife

Overall Length: 11-7/8″; **Blade Length:** 7″

Full-Size USMC Knife	1 lb.	**33606**	**$81.25**

Short USMC Knife

Overall Length: 9-1/4″; **Blade Length:** 5-1/4″

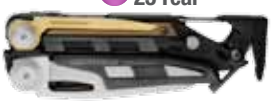
Short USMC Knife	12 oz.	**33607**	**$81.25**

[search engine powered by magazooms.com]

1 Leatherman® MUT® Multi-Tool

2854

Manufacturer's Warranty 25 Year



Designed both as a tactical and practical tool, the versatile MUT is ideal for use by military and civilian marksmen. Multiple areas on the tool are threaded for cleaning rods and brushes, and all screwdriver bits are sized for standard military and civilian sighting adjustment work. The MUT features: needlenose pliers, regular pliers, 154CM wire cutters, 154CM hard-wire cutters, stranded-wire cutters, electrical crimper, 420HC combo knife, saw, hammer, cutting hook, bolt override tool, firearm disassembly punch, bronze carbon scraper, cleaning rod/brush adapter, carabiner/bottle opener, bit driver, and 1/2″ and 3/8″ wrench accessory. Also includes these bits: Phillips #1-2 and 3/16″ screwdriver; Phillips #2 and 1/4″ screwdriver; and Torx #15 and Hex 7/64″. Stainless steel body and removable titanium pocket clip. MOLLE sheath included. Backed by a 25-year warranty from the manufacturer. **Closed Length:** 5″. **Blade Length:** 3″.

Leatherman MUT Multi-Tool	16 oz.	**35690**	**$159.85**

2 Leatherman® Sidekick™ Multi-Tool

7769

Manufacturer's Warranty 25 Year

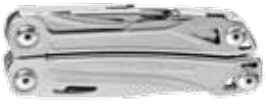
Versatile and rugged, this multi-tool features a stainless steel body and includes spring-action needlenose pliers, spring-action regular pliers, wire cutters, 420HC combo knife, 420HC serrated knife, saw, wood/metal file, ruler (1″/2.54 cm), small screwdriver, medium screwdriver, Phillips screwdriver, bottle opener, can opener, wire stripper, removable pocket clip, and lanyard ring. Sheath and carabiner bottle opener accessory included. Backed by a 25-year warranty from the manufacturer. **Closed Length:** 3.8″. **Blade Length:** 2.6″.

Leatherman Sidekick Multi-Tool	9 oz.	**35608**	**$49.95**

3 Leatherman® Wingman™ Multi-Tool

7770

Manufacturer's Warranty 25 Year



Combining Leatherman quality and value, the Wingman features a durable stainless steel body. Includes spring-action needlenose pliers, spring-action regular pliers, wire cutters, 420HC combo knife, package opener, wood/metal file, scissors, small screwdriver, medium screwdriver, Phillips screwdriver, ruler (1″/2.54 cm), bottle opener, can opener, wire stripper, and removable pocket clip. Backed by a 25-year warranty from the manufacturer. **Closed Length:** 3.8″. **Blade Length:** 2.6″.

Leatherman Wingman Multi-Tool	8 oz.	**35609**	**$39.95**

4 Leatherman® Rebar Multi-Tool

7921

Manufacturer's Warranty 25 Year

Combining durability with easy handling and outstanding comfort during use, the Rebar includes Leatherman's most popular tools. Featuring a slim profile when closed, all components securely lock and are accessible even when you're wearing gloves. **Includes:** butterfly-opening pliers, hard wire cutters, double-sided file, small screwdriver, medium screwdriver, full-sized Phillips screwdriver, awl, flat knife blade, fully serrated knife blade, can/bottle opener, wire stripper, wood saw, and lanyard ring. Removable handle inserts. 100% Stainless steel. Backed by a 25-year manufacturer's warranty. Leather sheath included. **Closed Length:** 4″.

Leatherman Rebar Multi-Tool	9 oz.	**35556**	**$59.85**

5 Leatherman® OHT™ Multi-Tool

2855

Manufacturer's Warranty 25 Year

The OHT is the first multi-tool that is 100% operable with one hand! All components are external and easily accessible. Spring-loaded pliers and wire cutters allow for a sure grip without constantly readjusting your hand. The handles are imprinted with the outline of the tool underneath for fast location of what you need. The OHT features: spring-action needlenose pliers, spring-action regular pliers, spring-action 154CM wire cutters, spring-action 154CM hard-wire cutters, 420HC knife, 420HC serrated knife, Phillips screwdriver, small screwdriver, medium screwdriver, large screwdriver, saw, strap cutter, can opener, bottle opener, oxygen tank wrench, #8-32 cleaning rod attachment, and integrated lanyard attachments. Stainless steel body. Backed by a 25-year warranty from the manufacturer. **Closed Length:** 4.5″. **Blade Length:** 2.37″.

Leatherman OHT Multi-Tool	12 oz.	**35691**	**$89.85**

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1 Leatherman® Super Tool® 300 Multi-Tool
7337

Manufacturer's Warranty 25 Year

Features the strongest pliers Leatherman has ever produced! The sloped-top handle design allows you to maneuver the pliers into tight spaces, and rolled handle edges ensure a comfortable grip. Large side cutouts make it easy to get components out even when wearing gloves. Removable wire cutter inserts allow for easy re-sharpening on the spot. **Includes:** 420HC clip point knife with straight edge, 420HC sheepsfoot serrated knife, needlenose pliers, regular pliers, 154CM removable wire cutters, 154CM removable hard-wire cutters, stranded-wire cutters, wire stripper, electrical crimper, 5/16″ screwdriver, 7/32″ screwdriver, 1/8″ screwdriver, Phillips screwdriver, wood/metal file, saw, bottle opener, can opener, 9″/22 cm ruler, and awl with thread loop. Stainless steel handles and body. Backed by a 25-year manufacturer's warranty. Leather/nylon sheath included. **Closed Length:** 4.5″. **Blade Length:** 2.9″.

Leatherman Super Tool 300 Multi-Tool	1 lb.	**35662**	**$79.85**

2 Leatherman® Charge® TTi Multi-Tool
8258

Manufacturer's Warranty 25 Year

The Charge TTi features lightweight, corrosion-resistant, premium titanium handles for superior durability and toughness. Bronze bushings allow the exterior blades to open smoothly, and the interior blades rotate individually to quickly deliver the exact tool you need. Features include needlenose pliers, regular pliers, wire cutters, hard-wire cutters, crimper, S30V® clip-point knife, serrated knife, cutting hook, saw, wood/metal file, diamond-coated file, scissors, large bit driver, small bit driver, large screwdriver, 8 double-end bits, ruler (8″/19 cm), bottle/can opener, wire stripper, fixed lanyard ring, quick-release lanyard ring, and removable pocket clip. Protected by a 25-year manufacturer's warranty. Leather case included. **Closed length:** 4″.

Leatherman Charge TTi Multi-Tool	14 oz.	**35697**	**$169.85**
Bit Kit	6 oz.	**35518**	**$22.50**

3 Leatherman® Wave® Multi-Tool
3676

Manufacturer's Warranty 25 Year

An essential tool for outdoor professionals!

Newly re-designed to offer larger knives, stronger pliers, longer wire cutters and all-locking blades. Features needlenose pliers, regular pliers, wire cutters, hard-wire cutters, clip-point knife, serrated knife, saw, diamond-coated file, wood/metal file, scissors, large bit driver, small bit driver, ruler (8″/19cm), large screwdriver, bottle/can opener, wire stripper, and a lanyard attachment. Included bits are a Phillips and flat tip eyeglass screwdriver and a Phillips #1-2 and screwdriver 3/16″. Protected by a 25-year manufacturer's warranty. Case included. **Closed length:** 4″.

Leatherman Wave Multi-Tool with Leather Case, Stainless Steel	1 lb.	**35622**	**$89.85**
Leatherman Wave Multi-Tool with Nylon Case, Black Finish	11 oz.	**35640**	**$99.85**
Bit Kit	6 oz.	**35518**	**$22.50**

4 Leatherman® Surge™ Multi-Tool
4312

Manufacturer's Warranty 25 Year

The Surge is a multi-tool powerhouse – built with tough new pliers, longer blades and easy-to-use locks. A unique blade exchanger comes with saw and diamond/wood file blades. Large and small bit drivers include double-ended bits, and 4 outside-opening blades give you quick access to the tools you use most. Protected by a 25-year manufacturer's warranty. Nylon case included. **Features:** Regular Pliers, Needle Nose Pliers, Clip-Point Knife, Straight Knife, Serrated Knife, Wire Cutters, Hard Wire Cutters, Stranded Wire Cutters, Wire Stripper, Electrical Crimper, Scissors, Blade Exchanger, Diamond and Wood/Metal File Blade, Saw Blade, Large Bit Driver, Small Bit Driver, Phillips #1-2 Bit, Screwdriver 3/16″ Bit, Phillips and Flat Tip Eyeglasses Screwdriver Bit, 5/16″ Screwdriver, Awl with Thread Loop, Ruler (9″/22cm), Bottle/Can Opener, and Lanyard Ring. **Closed Length:** 4.5″.

Leatherman Surge Multi Tool	1 lb.	**35668**	**$99.85**
Bit Kit	6 oz.	**35518**	**$22.50**

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LEATHERMAN

Leatherman® Skeletool® Multi-Tool

8404

Manufacturer's Warranty 25 Year

Weighing in at only 5 ounces, the Skeletool is one of the lightest full-size multi-tools on the market! The tool's outside-accessible blades can be opened with one hand, just like a pocket knife. You can even customize your tool selection using the included bits which store conveniently in the tool's handles. Removable pocket clip. Skeletool features a 420HC stainless steel blade. Backed by a 25-year manufacturer's warranty. Includes needlenose pliers, regular pliers, wire cutters, hard-wire cutters, straight 420HC stainless steel blade, carabiner/bottle opener, universal bit driver, Phillips #1 and #2 bit, and screwdriver 1/4″ and 3/16″ bit. An optional Bit Kit is also available. **Closed Length:** 4″

Leatherman Skeletool, Straight 420HC stainless steel blade	6 oz.	**35751**	**$58.50**
Bit Kit	6 oz.	**35518**	**$22.50**

LEATHERMAN

Leatherman® Style™ CS Multi-Tool

7467

Manufacturer's Warranty 25 Year

Stylish and compact, this multi-tool easily fits in your pocket and also features a key ring attachment. Includes spring-action scissors, 420HC knife, nail file, flat/Phillips screwdriver, carabiner/bottle opener, and tweezers. 100% Stainless steel body and glass-filled nylon handle scale. Backed by a 25-year manufacturer's warranty.

Closed Length: 2.98″. **Blade Length:** 1.6″. **Weight:** 1.45 oz.

Leatherman Style CS Multi-Tool	1 oz.	**35646**	**$22.50**

Leatherman® Raptor® Shears
www.forestry-suppliers.com

LEATHERMAN

Leatherman® Crunch™ Tool

6844

Manufacturer's Warranty 25 Year

It's almost like taking your tool box with you!

The Crunch™ includes pliers which lock, a serrated blade, four screwdrivers, a hex bit driver, wire cutter and stripper, file, and bottle opener. Nylon case included. 100% Stainless steel. Backed by a 25-year manufacturer's guarantee.

Dimensions: 4″L x 1-3/8″W x 1/2″H.

Leatherman Crunch Tool	10 oz.	**35671**	**$98.95**

Filson® Twill Original Briefcase
pages 7 and 19

WORK SHARP

Work Sharp® Guided Field Sharpener 2.2.1

4716

Made in USA

Manufacturer's Warranty Limited Lifetime

Fast, reliable, and goes anywhere!

The first angle-guided, five-stage sharpener, this precision tool provides a complete, compact solution for your sharpening needs even in the field. Easily sharpen knives (standard or serrated), axes, machetes, garden tools, fish hooks, scissors, and more! The versatile sharpener includes one coarse diamond plate, one fine diamond plate, one large ceramic rod (with coarse, fine, and fish hook grooves), one small ceramic rod, one leather strop conditioned with micro-abrasive, and a broadhead wrench. The interchangeable diamond plates are held in place with strong magnets, and the 20° and 25° sharpening guides ensure consistent blade edge angles time after time. Manufacturer's limited lifetime warranty. Made in USA.

Work Sharp Guided Field Sharpener 2.2.1	R	6 oz.	**35699**	**$29.95**

WORK SHARP

Work Sharp® Knife and Tool Sharpener

4717

Made in USA

Manufacturer's Warranty Limited Lifetime

Provides professional-grade results for all of your sharpening needs!

Designed to sharpen all types of knives as well as axes, hatchets, mower blades, garden shears, shovels, scissors, and any other tool with a blade! This sharpener uses flexible, abrasive belts (coarse, medium, and fine grit belts, one of each included) and precision angle sharpening guides to ensure a razor sharp edge and a proper angle every time. Two guides are included: a 50° guide for hunting and outdoor knives (25° per bevel) and a 40° guide for thinner blades and kitchen knives (20° per bevel). Instructional DVD and user's guide also included. One-year manufacturer's limited warranty. Made in USA.

Work Sharp Knife and Tool Sharpener	R	3 lbs.	**35680**	**$79.95**
Belt Accessory Kit, Includes two coarse grit belts, two medium grit belts, and two fine grit belts.	R	2 oz.	**35686**	**$9.95**

R Cannot be sold internationally

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GERBER

Gerber® Diesel™ Multi-Plier®

8093

Manufacturer's Warranty Limited Lifetime

Tough and easy to handle, the Diesel features one-handed opening pliers and rugged, larger than average tools that securely lock into place. Individual stainless steel tools include needlenose pliers, a wire cutter, a wire crimper, a partially serrated knife, a cross point screwdriver, flat blade screwdrivers (small, medium, and large), a can opener, a bottle opener, a file, a saw, and scissors. Ballistic nylon sheath included.

Overall length: 6.61″. **Closed length:** 4.92″. **Warranty:** Limited lifetime from the manufacturer.

Gerber Diesel Multi-Plier	10 oz.	**35101**	**$59.95**
Gerber Diesel Multi-Plier, Black Finish	11 oz.	**35099**	**$74.25**

GERBER

Gerber Multi-Plier® 400 Compact Sport

7052

Manufacturer's Warranty Limited Lifetime

Compact, yet loaded with features!

This multi-purpose tool has quality Fiskars® scissors, a serrated drop point blade, needlenose pliers, wire cutters, crimper, medium screwdriver/ bottle opener, crosshead screwdriver, large screwdriver, small screwdriver, and a can opener. Other features include stainless steel construction, convenient one-handed opening, all-locking components, independent tool rotation, and non-pinch handles. Sheath included.

Length open: 5.75″. **Width:** 1.2″.

Gerber Multi-Plier 400 Compact Sport	8 oz.	**22879**	**$43.50**
		3+	**$39.95**

GERBER

Gerber® Suspension™ Multi-Plier®

8097

Manufacturer's Warranty Limited Lifetime

Featuring an open-frame configuration, this multi-tool combines a sleek design with outstanding functionality. The Suspension features spring-loaded pliers and the patented Saf.T.Plus™ component locking system to lock the tools in place. Individual components include needlenose pliers, a wire cutter, a fine edge knife, a serrated edge knife, a saw, scissors, a crosspoint screwdriver, flatblade screwdrivers (small and medium), a can opener, and a bottle opener. Ballistic nylon sheath included.

Overall length: 6.50″. **Closed length:** 4.00″. **Warranty:** Limited lifetime from the manufacturer.

Gerber Suspension Multi-Plier	10 oz.	**35102**	**$31.95**

Made in USA

Manufacturer's Warranty Lifetime

AccuSharp® Knife and Tool Sharpener

4088

Safely and easily sharpen your knives and other cutting tools!

AccuSharp® can be used to sharpen knives (including serrated knives), hatchets, machetes, shovels, axes, hoes, and other cutting tools. Only two or three passes using light downward pressure produces a razor sharp edge. The industrial-grade tungsten carbide sharpeners are long-lasting and can be reversed for double life. The sharpener's large safety handle fits comfortably in either hand. AccuSharp® can be cleaned with soap and water and will not rust. Replacement blades sold separately. Manufacturer's lifetime warranty. Made in the USA.

AccuSharp Knife and Tool Sharpener	2 oz.	**35642**	**$12.50**
Replacement Blades, Set of Two	1 oz.	**35647**	**$7.70**

Manufacturer's Warranty 1 Year

EdgeCraft® M42 Sportsman™ Diamond Hone® Knife Sharpener

7988

For sharpening all types of knives - it even sharpens both straight edge and serrated knives to better than factory sharpness! The two-stage sharpening allows for stronger and more durable edges as well as faster results. Stage 1 sharpens using 100% fine diamond abrasives, while Stage 2 hones the edge using ultra-fine 100% diamond abrasives. Other features include patented, flexible spring knife guides to ensure precise angle control and eliminate guesswork and a powerful AC motor. Guaranteed to never detemper. Assembled in the U.S.A. One year limited warranty from the manufacturer.

Model M42 Sharperner	4 lbs.	**35663**	**$69.99**

Made in USA

Manufacturer's Warranty 3 Year

EdgeCraft® Chef'sChoice® Diamond Hone® EdgeSelect® Plus Knife Sharpener

7988

This professional electric knife sharpener incorporates conical 100% diamond coated disks in Stages 1 and 2 and a revolutionary stropping/ polishing disk in Stage 3. In just seconds, an edge of unprecedented sharpness and durability is obtained on fine edge (straight edge) and serrated knives. The flawless, highly polished fine edge can be customized to suit the cutting task. High precision elastomeric angle guides eliminate all guesswork. Three year limited warranty from the manufacturer. UL or ETL and Canadian Approval. Engineered and assembled in the U.S.A.

Model #120 Sharpener	5 lbs.	**35649**	**$149.99**

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67202

67203

Crescent®

Crescent® Professional Tool Sets

8049

SAE and Metric

These industrial-quality tool sets are built tough to meet stringent ANSI and ASME strength specifications. Each set features a 72-tooth ratchet drive for a 5° swing that is ideal for working in tight spaces, quick-release button operation, and 3/8″ drive 12-point sockets to increase fastener contact area for optimum torque. Tools are housed in a durable storage case which features a raised-letter ID for each tool location so that all tools stay organized when securely locked in place.

Crescent 70-Piece Professional Tool Set	8 lbs.	**67203**	**$66.25**
Crescent 148-Piece Professional Tool Set	20 lbs.	**67202**	**$110.25**
Crescent 170-Piece Professional Tool Set	20 lbs.	**67220**	**$129.25**

67220

		Ratchet Drive Size	Ratchet Handle	Extension	Plug Sockets	6-Point Shallow Sockets	6-Point Deep Sockets	12-Point Sockets	Socket Adapter	Combination Wrenches	Adjustable Wrench	Needle Nose Pliers	T & G Pliers	Diagonal Cutter	Magnetic Screwdrivers	Bit Driver	Hex Bits	Allen Keys
70 Piece		1/2″																
		3/8″	1	1		16		16	1	12						1	12	8
		1/4″	1	1														
148 Piece		1/2″	1	1		10												
		3/8″	1	2	2		10	16	1	12		1		1	4	1	44	18
		1/4″	1	1		20												
170 Piece		1/2″	1	1		10												
		3/8″	1	2	2		12	25	1	12	1	1	1		4	1	44	26
		1/4″	1	1		22												

Crescent® 140-Piece Mechanic's Tool Set

7995

This professional tool set features 72-tooth ratchet drives for a 5° swing that is ideal for working in tight spaces. Quick-release button operation and 3/8″ drive 12-point sockets increase fastener contact area to ensure maximum torque. Tools meet ANSI and ASME specifications. Rugged case included.

Set includes - Combination Wrenches: 1/4″, 5/16″, 11/32″, 3/8″, 7/16″, 1/2″, 9/16″, 5/8″, 11/16″, 3/4″, 6-19mm. 1/2″ Ratchet Drive plus 3″ and 6″ extensions; **6-point sockets:** 3/8″, 7/16″, 1/2″, 9/16″, 5/8″, 11/16″, 3/4″, 13/16″, 7/8″, 9-18mm. 3/8″Ratchet Drive plus 1-1/2″, 3″, and 6″ extensions; **12-point sockets:** 5/16″, 3/8″, 7/16″, 1/2″, 9/16″, 5/8″, 11/16″, 3/4″, 13/16″, 7/8″, 9-19mm, **12-point deep sockets:** 3/8″, 7/16″, 1/2″, 9/16″, 5/8″, 11/16″, 3/4″, 13/16″, 7/8″, 9-19mm, **Torx Bit Sockets:** T-30, T-40, T-45. 1/4″ Ratchet Drive plus 3″ and 6″ extensions; **6-point sockets:** 5/32″, 3/16″, 7/32″, 1/4″, 9/32″, 5/16″, 11/32″, 3/8″, 7/16″, 1/2″, 9/16″, 4-14mm, **Hex Bit Sockets:** 3/16″, 7/32″, 1/4″, 5/16″, 3/8″, **Torx Bit Sockets:** T-15, T-20, T-25. **Screwdrivers Slotted Bits: 1/4″ drive:** 7/32″, 1/4″; **3/8″ drive:** 7/32″, 9/32″, 3/8″; **Phillips Screwdriver Bits: 1/4″ drive:** #1, #2; **3/8″ drive:** #1, #2, #3, #4.

Crescent 140-Piece Mechanic's Tool Set	25 lbs.	**67200**	**$183.75**

BOSCH

BOSCH® 18V Litheon™ Compact Tough™ 1/2″ Drill Driver

8738

The compact design of this drill driver allows for increased maneuverability in tight spaces and reduces user fatigue. The Durashield™ housing stands up to tough working conditions. High torque mode produces over 500 in.-lbs., and high speed mode produces 1,600 RPM. The ratcheting, single sleeve 1/2″ chuck allows for one-handed bit changes, and the 20-position clutch provides complete control. The drill driver also features a variable speed wide trigger and an LED light for use in dark or enclosed areas. The Litheon™ batteries provide maximum cyclelife, minimum self-discharge, and no memory effect. Includes two 18V Litheon™ SlimPack batteries, 30-minute battery charger, double-ended bit, and carrying case.

BOSCH 18V Litheon Compact Tough 1/2″ Drill Driver	10 lbs.	**20001**	**$242.95**
27-Piece Chuck, Drill Bit, and Driver Set	1 lb.	**20035**	**$35.50**

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Estwing

Estwing® Rip Claw Hammers
2894

Rip claw solid steel hammer features a forged, one-piece head and handle. A molded-on nylon vinyl Shock Reduction Grip® reduces vibrations caused by impact.

12 oz. Head; 11″ Overall Length	1 lb.	**67270**	**$31.95**
16 oz. Head; 13″ Overall Length	2 lbs.	**67271**	**$33.95**
20 oz. Head; 13.5″ Overall Length	2 lbs.	**67272**	**$36.75**

Estwing

Estwing® Curved Claw Hammers
2893

Curved claw solid steel hammer features a forged, one-piece head and handle. A molded-on nylon vinyl Shock Reduction Grip® reduces vibrations caused by impact.

12 oz. Head; 11″ Overall Length	1 lb.	**67273**	**$33.95**
16 oz. Head; 13″ Overall Length	2 lbs.	**67274**	**$33.95**
20 oz. Head; 13.5″ Overall Length	2 lbs.	**67275**	**$36.75**

General Purpose Bolt Cutters
3675

The toggle joints of these bolt cutters turn 50 lbs. hand pressure into 4,000 lbs. of cutting pressure! Use to cut soft and medium/hard materials. Drop-forged jaws with center-cut blades that are heat-treated for wear resistance and long cutting life. Handles are made of precision cast, 1-piece, aluminum alloy and feature rubber grips for comfort.

Industrial Bolt Cutters
1999

Cut soft, medium and hard materials. Feature drop-forged, precision ground, alloy tool steel jaws with center-cut blades, steel handles with rubber grips, and toggle joints which turn 50 lbs. hand pressure into 4,000 lbs. cutting pressure.

	General Purpose			Industrial					
	14″	18″	24″	14″	18″	24″	30″	36″	42″
Bolt Cutters	**95104**	**95101**	**95106**	**95103**	**95105**	**95100**	**95107**	**95108**	**95109**
Cutting Capacity: Soft	5/16″	3/8″	7/16″	5/16″	3/8″	7/16″	1/2″	9/16″	11/16″
Cutting Capacity: Hard	1/4″	5/16″	3/8″	3/16″	1/4″	5/16″	3/8″	7/16″	1/2″
Weight	2 lbs.	4 lbs.	5 lbs.	3 lbs.	4 lbs.	6 lbs.	10 lbs.	16 lbs.	20 lbs.
Each	**$52.95**	**$62.50**	**$78.75**	**$89.75**	**$94.75**	**$101.50**	**$136.75**	**$162.95**	**$220.50**

Crescent®

Crescent® 9″ Lineman Pliers
8163

Made of drop-forged steel, these pliers are hand-honed to cut cleanly and stay sharp. Features include polished heads, gunmetal handles, and insulating vinyl grips.

Maximum thickness: 5/8″. **Nose:** 1-9/16″L x 1-9/32″W. **Length:** 9″.

Crescent 9″ Lineman Pliers	1 lb.	**67205**	**$26.25**
		3+	**$24.50**

H.K. Porter Cable Cutter
2921

Top-quality, pocket sized cutter is excellent for 3/16″ hard wire rope or cable and 1/4 soft wire rope or cable, piano wire, or aircraft cable. Other features include shear-cut blades and rubber-coated handles. **Overall Length:** 7-1/2″.

H.K. Porter Cable Cutter	13 oz.	**95102**	**$36.75**

Master Lock® Python™ Adjustable Locking Cable
7301

This versatile cable lock features a patented locking mechanism that holds the cable tight at any position from 1′ to 6′. The locking cable system is built tough with a 3/8″ 100% steel braided cable, a rust-resistant aluminum lock body, and a scratch-resistant vinyl cable sleeve and lock body bumper. A Velcro® strap holds excess cable for convenient storage. Choose from keyed alike or keyed different models.

6′ Keyed Alike Locking Cable	2 lbs.	**94752**	**$25.95**
		6+	**$23.50**
6′ Keyed Different Locking Cable	2 lbs.	**94753**	**$26.25**
		6+	**$23.75**

Master Lock.

Master Lock.

Master Lock® Laminated Steel Pin Tumbler Padlock
2179

1-9/16″ Body, 3/4″ Deep, 5/8″ Open

1-9/16″ Wide laminated steel body with hardened steel shackle for superior strength and extra cut resistance. Other features include a 4-pin cylinder which helps prevent picking and dual locking levers for extra pry resistance.

Master Lock Padlock - Keyed Alike, Pack of One 8 oz.		**94741**	**$8.95**

Master Lock.

Master Lock® Combination Locks
2285

Set your own combination to these rugged brass case locks. Features include 4-digit direct dial operation, 2″ wide solid brass case for strength and weatherability, and the versatility to be reset to any of 10,000 personalized combinations.

Combination Lock - Shackle: 5/16″ x 1″ x 1″ 9 oz.		**95173**	**$18.50**
		6+	**$17.50**
		12+	**$16.50**
Combination Lock - Shackle: 5/16″ x 2-1/4″ x 1″ 10 oz.		**95174**	**$20.95**
		6+	**$19.25**
		12+	**$18.50**
Shrouded Combination Lock - Shackle: 3/8″ x 1-1/16″ x 15/16″ 1 lb.		**94755**	**$21.75**
		6+	**$19.95**
		12+	**$19.35**

Youngstown General Utility Plus Gloves
page 620

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New! Plano 5-Tier Free Standing Heavy Duty Shelving
4873

Holds 750 pounds per unit when the weight is evenly distributed! 18″ Deep shelves hold up to 150 lbs. per shelf. Interlocking shelves connect multiple units for added Storage. 18.25″ x 37″ x 71.375″.

Plano 5-Tier Free Standing Heavy Duty Shelving	O	27 lbs.	**94707**	**$88.95**

New! Plano Deep Dry Storage Box with Tray
4875

Water-resistant storage box with an o-ring seal. Deep lift out tray and top access storage provide plenty of room for all your supplies. Handle has a comfortable, over-sized grip. **Color:** Orange.

Plano Deep Dry Storage Box with Tray, Measures 15″ x 8″ x 10″.	3 lbs.	**34414**	**$18.75**
		4+	**$17.50**
Plano Extra Large Dry Storage Box with Tray, Measures 17″ x 10.38″ x 13″.	4 lbs.	**34415**	**$27.75**
		4+	**$25.75**

New! Plano Sportsman's Trunks
4876

Keep your outdoor gear safe, secure and organized with these storage trunks! Features include molded grooves on the top and bottom so that multiple units will "key" together, a reinforced removable lid that is lockable, and tie downs on the side.

Plano Small Sportsman's Trunk, 56 Quart, Dimensions: 24″ x 15″ x 13″.	O	6 lbs.	**34411**	**$16.25**
			3+	**$14.95**
Plano Medium Sportsman's Trunk, 68 Quart, Dimensions: 30″ x 14.25″ x 12.75″.	O	6 lbs.	**34412**	**$21.50**
			3+	**$19.95**

New! Plano Wheeled Sportsman's Trunk
4876

This 108 Quart, wheeled storage trunk keeps your outdoor gear safe, secure and organized while also allowing you to smoothly transport it. Features include molded grooves on the top and bottom so that multiple units will "key" together, a reinforced removable lid that is lockable, and tie downs on the side. **Dimensions:** 37.75″ x 14″ x 18.25″ Exterior; 34.75″ x 13.5″ x 16″ Interior.

Plano Wheeled Sportsman's Trunk, 108 Quart	O	10 lbs.	**34423**	**$39.95**

New! Plano Guide Series Waterproof StowAway 3700
4877

This waterproof StowAway provides ample protection of tools and small parts against the elements at an affordable price. Features include a Dri-Loc O-ring seal, three tight sealing cam action latches, and 4-23 adjustable compartments. **Dimensions:** 14″ x 9″ x 1.875″.

Plano Guide Series Waterproof StowAway 3700	1 lb.	**34416**	**$10.50**
		3+	**$9.75**

Plano Guide Series Deep Waterproof StowAway 3700

This deep waterproof StowAway provides ample protection of tools and small parts against the elements at an affordable price. Features include a Dri-Loc O-ring seal, three tight sealing cam action latches, and 1-4 adjustable compartments. **Dimensions:** 14″ x 9″ x 2.875″.

Plano Guide Series Deep Waterproof StowAway 3700	1 lb.	**34417**	**$12.25**
		3+	**$11.25**

New! Plano® StowAway® Model 3600 Utility Boxes
4878

These utility boxes ensure that contents are protected. Features include an advanced ProLatch locking system which offers added security to ensure gear stays put, even if tossed around in transit or in use. Available in two sizes.

Plano StowAway Model 3600 Utility Box, Standard, Features 6-21 adjustable compartments. Dimensions: 11″L x 7.25″W x 1.75″H.	11 oz.	**34420**	**$5.25**
		6+	**$4.75**
Plano StowAway Model 3600 Utility Box, Deep, Features 4-9 deep adjustable compartments. Dimensions: 11″L x 7.25″W x 2.75″H.	12 oz.	**34421**	**$5.95**
		6+	**$5.60**

New! Plano® StowAway® Model 3700 Utility Boxes
4878

These utility boxes feature an advanced ProLatch locking system that ensures gear stays put, even if tossed around in transit or in use. Available in two sizes.

Plano StowAway Model 3700 Classic Utility Box, Standard. Features 4-24 adjustable compartments. Dimensions: 14″L x 9.13″ x 1.875″H.	15 oz.	**34418**	**$7.25**
		4+	**$6.50**
Plano StowAway Model 3700 Classic Utility Box, Deep, Features 4-15 adjustable compartments. Dimensions: 14″L x 9.13″W x 3.25″H.	2 lbs.	**34419**	**$8.25**
		3+	**$7.50**

O Oversize. Ships UPS 30 lb. rate. See Shipping Information for details.

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Telesteps® Automatic Telescoping Ladders
8569

Portable in the true sense of the word! Telesteps Ladders are compact enough to store in the trunk of your car or behind the seat in your truck. Select the desired length for the job at hand. TELESTEPS® meet applicable American National Standards Institute (ANSI) and Occupational Safety and Health Administration (OSHA) requirements. In addition, they have a 12-month warranty from the manufacturer.

12.5´ Telescopic Ladder
Gives the same climbing height as a 16´ extension ladder.

Closed Height: 30˝. **Extended Height:** 12.5´. **Weight:** 23 lbs. **Rating:** "Type1" 250 lbs.

12.5´ Telescopic Ladder – Same climbing height as a 16´ extension ladder. Extends from 30˝ to 12.5´. Rating: "Type1" 250 lbs.	25 lbs.	**90905**	**$267.75**

12.5´ PRO Telescopic Ladder
Features wide steps for more comfortable climbing and standing. Gives the same climbing height as a 16´ extension ladder.

Closed Height: 30˝. **Extended Height:** 12.5´. **Weight:** 24 lbs. **Rating:** "Type1A" 300 lbs.

12.5´ PRO Telescopic Ladder – Wide steps. Same climbing height as a 16´ extension ladder. Extends from 30˝ to 12.5´. Rating: "Type1A" 300 lbs.	27 lbs.	**90906**	**$310.25**

14.5´ PRO Telescopic Ladder
Features wide steps for more comfortable climbing and standing. Gives the same climbing height as an 18´ extension ladder.

Closed Height: 33˝. **Extended Height:** 14.5´. **Weight:** 30 lbs. **Rating:** "Type1A" 300 lbs.

14.5´ PRO Telescopic Ladder – Wide steps. Same climbing height as an 18´ extension ladder. Extends from 33˝ to 14.5´. Rating: "Type1A" 300 lbs.	34 lbs.	**90907**	**$363.50**

Rubbermaid®

Rubbermaid® ActionPacker® Storage Containers
6261

Lightweight, roomy, sturdy containers go wherever you go!

Double wall, impact-resistant plastic box with interlocking lid can be padlocked. Secure easily to auto, truck, or boat with handy tie-down loops. Charcoal gray with red, easy grip handles. Can be stacked.

8-Gallon capacity, 20-1/8˝L x 14-5/8˝W x 12-1/8˝H		5 lbs.	**35709**	**$30.25**
			4+	**$28.95**
24-Gallon capacity, 26˝L x 17˝W x 18-1/2˝H	O	10 lbs.	**35711**	**$44.50**
			4+	**$42.50**
35-Gallon capacity, 35˝L x 20.8˝W x 16.9˝H	O	19 lbs.	**35769**	**$91.75**
48-Gallon capacity, 43-3/4˝L x 20-1/2˝W x 17-1/25˝H	O	25 lbs.	**35710**	**$117.95**

Action Field/ Utility Box
6299

Water resistant, airtight and it floats! Heavy-duty plastic with handle, lockable latch and foam water seal. Handle folds flush with top for easy stacking. Olive drab. **Dimensions:** 6-1/2˝H x 7-1/2˝W x 13-1/2˝L.

Action Field/Utility Box 2 lbs.		**35714**	**$17.25**
		6+	**$15.75**

Field/ Utility Box
2561

Heavy-duty plastic. Convenient compartment on top of lid provides storage for smaller items. Deep open interior has a lift-out tray. **Dimensions:** 13˝ x 6-3/4˝ x 10˝.

Field/Utility Box 3 lbs.		**35696**	**$17.25**
		4+	**$15.25**

Tool Box with Liftout Tray
2562

This versatile tool box is lightweight, rustproof, dentproof and scratch-resistant! Top quality features include liftout tray, positive latch, tough recessed handle, and tongue and groove construction. **Dimensions:** 23˝ x 10-1/2˝ x 11-3/8˝.

Tool Box with Liftout Tray 6 lbs.		**78218**	**$41.95**

Collapsible Crate
6264

Expands from a 2-3/4˝ height when collapsed to a 20-3/4˝ x 14˝ x 11˝ (1.47 cubic foot) storage area when opened. Perfect for any lightweight storage or transportation use. Crate can be collapsed and stacked for storage when not in use. Constructed of durable polypropylene with easy grip handles for comfortable carrying.

Collapsible Crate 4 lbs.		**31113**	**$24.95**
		6+	**$22.75**

O Ships at Oversize rate. See Shipping Information for details.

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PELICAN™ You break it, we replace it... forever.

New! Pelican™ Storm iM2435 Case

4940

Manufacturer's Warranty Limited Lifetime

Designed to meet airline regulations for carry-on luggage, this rugged case features in-line wheels, a 38″ retractable extension handle, and a stationary, double-layered, soft-grip handle. Combining injection-molded HPX® high performance resin construction and O-ring seal protection, the case is watertight, crushproof, and dustproof. The case also features two press-and-pull latches and two stainless steel padlock protectors. Limited lifetime warranty from the manufacturer.

Interior Dimensions: 17.5″L x 6.5″W x 15.5″D. **Exterior Dimensions:** 18.63″L x 9.25″W x 16.5″D.

Pelican Storm iM2435 Case	13 lbs.	**35795**	**$179.95**

PELICAN™ You break it, we replace it... forever.

Pelican™ Memory Card Case

8613

Protect your memory cards with this durable case! Features include a water-resistant seal, a removable insert liner which absorbs shock, and one extra "plain" liner for custom storage needs. Made of tough Polycarbonate resin. **Dimensions:** External, 5.55″ x 3.27″ x 0.85″; Internal, 4.79″ x 2.25″ x 0.55″.

Model 915 Case for SD, mini SD, and micro SD Cards	7 oz.	**35708**	**$22.95**

PELICAN™ You break it, we replace it... forever.

Pelican™ 1065 and 1075 Hardback Digital Protection Cases

2416

Manufacturer's Warranty Limited Lifetime

Watertight, crushproof, and dust proof, these cases accommodate iPads, tablets and netbooks. Features include a watertight gasket which creates a tight seal when shut, an easy open latch which remains shut under pressure or even after impact, an automatic purge valve for keeping out water and dust, and a molded plush shock absorbing liner that protects from impact. Backed by a lifetime guarantee from the manufacturer.

Pelican 1065 Hardback Case -

Interior Dimensions: 9.96″ x 7.76″ x 0.81″.

Pelican 1065 Hardback Case	1 lb.	**35563**	**$51.87**

Pelican 1075 Hardback Case with shoulder strap -

Interior Dimensions: 11.11″ x 7.92″ x 1.63″.

Pelican 1075 Hardback Case with shoulder strap	2 lbs.	**35565**	**$67.63**

PELICAN™ You break it, we replace it... forever.

Pelican™ Deluxe Computer Case

6689

Features a polyurethane shock-absorbing tray and Velcro® lock down safety strap to keep computers firmly in place. The tray allows for storage of accessories. Store folders, literature, etc., in the padded protective lid organizer. Padded fold down handle and a removable padded ergonomic shoulder strap. Black.

Fits 17″ monitor, 3-Dial Combination Lock. Dimensions: 18.87″ x 13.12″ x 3.81″.	12 lbs.	**35110**	**$299.75**

PELICAN™ You break it, we replace it... forever.

Pelican™ Micro Cases

8612

Manufacturer's Warranty Lifetime

Great for rugged, outdoor use, these cases are water resistant, crushproof, and dust proof! Ideal for electronics like cell phones, PDAs, iPods, handheld gaming devices, pagers, etc. The rubber liner provides extra protection and doubles as an o-ring seal (not waterproof). Other features include an easy open latch, an automatic pressure equalization valve (balances interior pressure, keeps water out), stainless steel hardware, and a handy lanyard. Unconditional lifetime guarantee of excellence from the manufacturer.

Pelican™ Micro Case 1030 and 1040

Micro Case 1030 - Interior Dimensions: 6.37″ x 2.62″ x 2.06″	10 oz.	**35705**	**$20.95**
Micro Case 1040 - Interior Dimensions: 6.50″ x 3.87″ x 1.75″	12 oz.	**35706**	**$22.95**

Pelican™ Micro Case 1010 and 1060

Pelican 1010 Micro Case - Interior Dimensions: 4.37″ x 2.87″ x 1.68″	7 oz.	**35544**	**$14.75**
		4+	**$13.75**
Pelican 1060 Micro Case - Interior Dimensions: 8.25″ x 4.25″ x 2.25″	16 oz.	**35545**	**$27.25**
		4+	**$24.95**

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Pelican™ Cases

6108

Protect and transport valuable or sensitive equipment in these durable cases

These airtight, watertight, dent-proof cases are constructed of injection molded, high-impact thermal plastic. Each Pelican case has an O-ring seal that guarantees an absolute protective seal. A one-turn E-Z purge knob allows quick air equalization after altitude or temperature changes.

Other features include a built-in heavy-duty handle, heavy-duty latches, and an integral locking flange. Interior has layers of "pick'n pluck" polyester foam for customized equipment fitting.

Dessicant, Pack of 25	1 oz.	**89455**	**$13.00**

Model	Foam Insert	Handle	Color	Interior Dimensions (LxWxD)		Weight	SN	$
1150	Yes	Fold-Down	Black	8.18″ x 5.68″ x 3.62″		2 lbs.	**36200**	**$40.95**
1300	Yes	Fold-Down	Black	9.87″ x 7″ x 6.12″		4 lbs.	**36201**	**$65.75**
1400	Yes	Fold-Down	Silver-Gray	12″ x 9-1/8″ x 5-1/8″		5 lbs.	**35715**	**$99.95**
1450	Yes	Fold-Down	Black	14.62″ x 10.18″ x 6.00″		8 lbs.	**36202**	**$127.50**
1500	Yes	Fold-Down	Black	17″ x 11-1/2″ x 6-1/4″		9 lbs.	**35717**	**$151.25**
1500 (S)	Yes	Fold-Down	Silver-Gray	17″ x 11-1/2″ x 6-1/4″		9 lbs.	**35716**	**$151.25**
1550	Yes	Fold-Down		18.43″ x 14.00″ x 7.62″		12 lbs.	**36203**	**$185.95**
1600	Yes	Fold-Down	Silver-Gray	21-5/8″ x 16-7/8″ x 7-7/8″		16 lbs.	**35727**	**$217.95**
1660NF with Wheels	No	Retractable	Black	29-1/8″ x 20-1/2″ x 17-5/8″	O	38 lbs.	**35781**	**$385.75**
1720	Yes	Fold-Down	Black	42″ x 13.5″ x 5.25″	O	22 lbs.	**35712**	**$287.00**

O Ships at Oversize rate. See Shipping Information for details.

PELICAN™
You break it, we replace it... forever.

Pelican™ Transportable Case

6756

A wonder on wheels!

This case is watertight, airtight, unbreakable, and corrosion proof, making it ideal for anyone who wants tough, reliable protection for sensitive, valuable, and heavy equipment. The case rolls easily over most any surface. Also features reinforced bumper corners, tough load balancing handle, heavy duty folding trunk handles, atmospheric travel purge valve, and heavy duty latch. Black. **Dimensions:** Outside - 32-11/16″L x 20-3/16″W x 11-3/16″D. Inside - 28-3/4″L x 17-7/8″W x 9-3/4″D.

Pelican Transportable Case	O	30 lbs.	**35777**	**$321.25**
			2+	**$297.95**

Pelican™ 1120 Guard Box with Foam Insert

6108

Floats with up to 4 pounds of contents

Protects cameras and other small items from shock and water damage. Constructed of tough ABS plastic with sturdy, built-in latches and a neoprene O-ring seal. Crush tested up to 500 lbs. Inner foam liner can be cut to fit your equipment. Yellow.

Interior dimensions: 7-3/8″ x 4-7/8″ x 3″.

Pelican Model 1120 Guard Box	2 lbs.	**35694**	**$37.25**
Dessicant, Pack of 25	1 oz.	**89455**	**$13.00**

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Bucket Boss®

For Storage and Portability!

Bucket Boss® Bucketeer BTO
6754

Bucket Tool Organizer

Transforms any 5-gallon bucket into a tool box! Features 30 assorted storage pockets as well as 3 interior loops for hammers, drills, pry bars, or other long tools. Constructed of polyester ripstop/600d polyester.

Bucket Boss Bucketeer BTO 1 lb.		**22739**	**$14.50**

Bucket Boss® Cable Bag
4404

Ideal for storing jumper cables, tow straps, pneumatic hose, or extension cords. Constructed of polyester ripstop/600d polyester. **Dimensions:** 14″ x 3″.

Bucket Boss Cable Bag 10 oz.		**22732**	**$14.25**

Heavy-Duty Jumper Cables

16 ft. Jumper Cables 5 lbs.		**02187**	**$53.50**
20 ft. Jumper Cables 6 lbs.		**02186**	**$60.50**

Bucket Boss® Gatemouth 24 Long Boy Tool Bag
6752

Offering plenty of space for large tools, this bag features a super-wide "Dr.'s bag" opening and measures 24″ wide. It also features 6 exterior pockets, 10 interior pockets, a removable padded shoulder strap, and a reinforced padded ripstop bottom. **Dimensions:** 24″W x 10″D x 10″H.

Bucket Boss Gatemouth 24 Long Boy Tool Bag	3 lbs.	**22725**	**$37.50**

Bucket Boss® Gatemouth 16 Tool Bag
6293

A super-wide "Dr.'s bag" opening provides fast, easy access to your tools and gear! The bag features 6 exterior pockets, 10 interior pockets, side pull handles, a removable padded shoulder strap, and a reinforced padded ripstop bottom. Constructed of polyester ripstop/600d polyester. **Dimensions:** 16″W x 9″D x 12″H.

Bucket Boss Gatemouth 16 Tool Bag	2 lbs.	**22728**	**$29.95**

Bucket Boss® Gatemouth Soft Tote
2556

Offering easy access to the tools you need, this tote features a large interior compartment with a removable partition and a plastic small parts tray. Also features a convenient tape clip, electrical tape holder, and tool clip. Constructed of polyester ripstop/600d polyester. **Dimensions:** 16″W x 7″D x 8.5″H.

Bucket Boss Gatemouth Soft Tote 3 lbs.		**22726**	**$35.75**

Bucket Boss® Gatemouth Hard Tote
7776

This tote keeps your tools organized and within quick reach! Features 4 exterior pockets (1 with a zipper), 16 interior tool loops, 3 external mesh pockets, and a metal tape measure clip. A steel handle with a foam rubber grip allows for easy carrying. Constructed of polyester ripstop/600d polyester. **Dimensions:** 12″W x 10″D x 11″H.

Bucket Boss Gatemouth Hard Tote 2 lbs.		**22730**	**$25.50**

Bucket Boss® Duckwear SuperWaist Apron
4406

With 13 pockets, this apron keeps tools within easy reach! Constructed of 18 oz. cotton duck canvas with bar tacked seams. The quick-release belt fits waist sizes 27″ to 54″. **Dimensions:** 23″W x 9.5″H.

Bucket Boss Duckwear SuperWaist Apron 8 oz.		**22731**	**$11.25**

Bucket Boss® Pro Gatemouth 14 with All-Terrain Bottom
2151

Built to withstand the most rugged environments, this bag features a waterproof molded rubber bottom, water-resistant 1680d polyester main body fabric, and plenty of pockets (10 exterior and 7 interior). Also features a water-resistant zipper, side pull handles, "StayPut" handle grips, a removable padded shoulder strap, and an ID window. **Dimensions:** 14″W x 10″D x 11″H.

Bucket Boss Pro Gatemouth 14 with All-Terrain Bottom	3 lbs.	**22729**	**$61.95**

Bucket Boss® Pro Gatemouth 18 with All-Terrain Bottom
6753

Roomy and rugged! This bag features 10 exterior pockets, 7 interior pockets, a molded waterproof rubber bottom, and a main body constructed of heavy-duty 1680d polyester that is water-resistant. Also features a water-resistant zipper, side pull handles, "StayPut" handle grips, a removable padded shoulder strap, and an ID window. **Dimensions:** 18″W x 12″D x 13″H.

Bucket Boss Pro Gatemouth 18 with All-Terrain Bottom	4 lbs.	**22727**	**$79.95**

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Bucket Boss® Contractor's Portfolio
6439

This portfolio features both inside and outside sleeves that can accommodate an iPad or folders. Interior organizer pockets are ideal for storing pencils and business cards, and an 8.5″ x 11″ notepad is included. Constructed of polyester ripstop/600d polyester. **Dimensions:** 15″W x 4″D x 12″H.

Bucket Boss Contractor's Portfolio	2 lbs.	**22735**	**$21.75**

Bucket Boss® Contractor's Briefcase
2557

This versatile briefcase features a laptop sleeve in the main compartment, an iPad sleeve in the front flap compartment, 15 interior pockets that accommodate basic tools, and a rear pocket for files or magazines. Constructed of polyester ripstop/600d polyester and features a padded shoulder strap. **Dimensions:** 16″L x 6″W x 12.5″H.

Bucket Boss Contractor's Briefcase	3 lbs.	**22733**	**$36.50**

Bucket Boss® Handyman's Holster with Belt
7058

This rugged holster features 5 pockets, a hammer loop, and a quick-release belt with a tape clip. Constructed of polyester ripstop/600d polyester. Fits waist sizes up to 52″. **Dimensions:** 10″W x 4″D x 10.5″H.

Bucket Boss Handyman's Holster with Belt	11 oz.	**22736**	**$13.25**

Bucket Boss® Ballistic Mobile Holder
2149

Combining double-interwoven ballistic nylon, 1680 polyester, and foam padding, this case provides reliable protection for your electronic device. Features a top-loading, water-resistant zipper tape closure. Use the stainless steel spring clip to attach the case to your tool belt, pants, or belt. **Dimensions:** 3″ x 1.5″ x 6.5″.

Bucket Boss Ballistic Mobile Holder	4 oz.	**22737**	**$6.75**

Rigger's Tool Bag
2153

Made of heavy-duty, 24 oz. canvas with leather trim, this rigger's bag is rugged enough to hold all your tools. Main compartment holds large items while the 24 outside pockets are great for screwdrivers, pliers, wrenches, pruners, etc. **Dimensions:** 15″L x 6″W x 9-1/2″ deep.

Rigger's Tool Bag	2 lbs.	**22900**	**$22.75**
		3+	**$20.75**

Bucket Boss® Pro Drop-Bottom 18 with All-Terrain Bottom
4410

Offering outstanding durability, this bag features a water-resistant 1680d polyester main compartment and an all-terrain molded waterproof rubber bottom. Easily organize your tools and gear using the bag's variety of pockets (6 exterior and 8 interior) and the drop-bottom compartment with dividers. Also features a waterproof zipper, side pull handles, "StayPut" handle grips, a removable padded shoulder strap, and an ID window. **Dimensions:** 18″ x 11.5″ x 16″.

Bucket Boss Pro Drop-Bottom 18 with All-Terrain Bottom	6 lbs.	**22734**	**$107.00**

Bucket Boss® Tool Roll
7059

This handy tool roll features 22 pockets and 17 loops. Three Velcro® pockets keep small items secure. Constructed of 18 oz. Duckwear canvas and features a carry handle. **Dimensions:** Opened, 26″W x 14.5″H.

Bucket Boss Tool Roll	12 oz.	**22738**	**$17.95**

Canvas Tool Bag
6292

Ideal for carrying small hand tools.

This heavy-duty, 22 oz. canvas bag features a large zippered compartment with 8 slots sewn into the sides and two outside pockets with snaps.

Color: Olive drab. **Dimensions:** 11″ x 7″ x 6″.

Canvas Tool Bag	1 lb.	**35745**	**$12.99**

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"Super Straps" Rubber Tie-Downs

Made in USA

6283

The "Super Strap" is extra thick and strong and has rounded edges with 2-1/2″ S-hooks pre-inserted. Meeting the requirements of even the most demanding tie-down user, these straps come in 15″, 21″, and 31″ lengths and are 1″ wide. Made in the U.S.A.

1″ x 15″ 4 oz.	**35655**	**$1.40**
	50+	**$1.15**
1″ x 21″ 5 oz.	**35656**	**$1.55**
	50+	**$1.30**
1″ x 31″ 7 oz.	**35657**	**$1.90**
	50+	**$1.60**

Master Lock.

Master Lock® Bungee Cords

8008

Offering outstanding elasticity and strength, these premium quality stretch cords provide the perfect tie-down solution. A coated twin wire hook allows for secure attachment, and the high density polyethylene coating keeps the hook from marring or scratching surfaces during use. The cords are color-coded for convenient length identification at a glance, and an organizer with a built-in handle is included for easy storage and organization.

15-Count Assortment – Includes six 18″, four 24″, three 32″, and two 40″ cords 4 lbs.	**94696**	**$22.50**
	5+	**$20.50**

SealLine® Dry Storage Bags page 681

DESKTOP. TABLET. MOBILE.
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New! Bednet® Original Cargo Net

4909

This heavy-duty restraint system safely secures loads to your truck bed and installs quickly with no guesswork! The one-piece design ensures that the integrated straps will not be lost or accidentally detached, and the coated hooks and rugged nylon buckles won't scratch your vehicle. Bednet's straps are constructed of tough polyester seatbelt webbing. Carrying case included.

Small (Compact), Dimensions: 56″W x 64.5″L. Weight: 6 lbs.	5 lbs.	**94756**	**$119.99**
Medium (Full-size short bed), Dimensions: 64.5″W x 65″L. Weight: 7 lbs.	6 lbs.	**94757**	**$119.99**
Large (Full-size long bed), Dimensions: 63″W x 85″L. Weight: 8 lbs.	7 lbs.	**94758**	**$119.99**

Keeper® Trakker 2000 lb. Ball Mount Winch

Manufacturer's Warranty Lifetime

7875

Light and portable, this winch comes with a rapid mount ball hitch mount and a handheld remote switch on a 10′ lead (a 20′ lead with battery clips is also included). Other features include a free wheel clutch, a 30′ aircraft cable with hook and safety latch, and an emergency hand crank. Backed by a limited lifetime warranty from the manufacturer.

Capacity: 6000 lb. rolling lead; 5000 lb. boat fully loaded up to 18′ long; 2000 lb. pulling capacity. **Power:** 12V DC.

2000 lb. Ball Mount Winch	24 lbs.	**67548**	**$94.50**

Ratcheting Cargo Bar

6749

Provides maximum load safety to keep even heavy loads from shifting.

Cargo bar fits all pickup trucks and is fully expandable from 40″ to 70″. Ratchet action allows for adjustable tension on the full size rubber pads on each end of bar. Cargo bar is coated with high endurance paint which resists rusting.

Ratcheting Cargo Bar	5 lbs.	**94699**	**$29.95**
		3+	**$27.75**

Waterproof Polyethylene Tarps

6279

These waterproof tarps feature polyethylene rope sewn in the hem on all sides for extra reinforcement, as well as heavy-duty aluminum grommets every three feet and at each corner for convenience. Easy to handle, tear-resistant, mildew-resistant, and washable.

Standard Tarps

Constructed of super strong, coated 8 x 20 weave polyethylene that will not crack in temperatures as low as -20°F. Blue.

Heavy-Duty Tarps

Constructed of durable 1000 denier polyethylene that will not crack in temperatures as low as -20°F. These 12 x 12 cross weave tarps are also reinforced at each corner with a plastic bar for ease of handling and added strength. Colors may vary.

Tarp	Weight	10′ x 12′	$	Weight	10′ x 20′	$	Weight	12′ x 16′	$	Weight	20′ x 20′	$
Standard	2 lbs.	**35551**	**$5.50**	3 lbs.	**35552**	**$8.50**	3 lbs.	**35553**	**$8.25**	5 lbs.	**35554**	**$16.75**
Heavy-Duty	3 lbs.	**35618**	**$10.25**	5 lbs.	**35619**	**$17.25**	5 lbs.	**35621**	**$16.50**	11 lbs.	**35620**	**$32.75**

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Keeper® Retractable Ratchet Tie-Down
7876

These handy tie-downs store the webbing when not in use by retracting it with the press of a button! Made from Hi-Test™ webbing, each tie-down has a 500 lbs. working load limit and a 1,500 lbs. break strength. Can be permanently mounted to any flat surface. Pack of 2. **Dimensions:** 6´ x 1˝.

Retractable Ratchet Tie-Down, Pack of 2	3 lbs.	**94655**	**$21.25**

New! Keeper® Ratchet Tie-Down with Chain Ends
4953

Ideal for securing heavy-duty cargo.

Rugged ratchet tie-down features chain ends and grab hooks.

27´L x 2˝W Tie-Down, Working Load Limit: 10,000 lbs.	9 lbs.	**94674**	**$36.25**
27´L x 3˝W Tie-Down, Working Load Limit: 15,000 lbs.	17 lbs.	**94675**	**$72.50**

New! Keeper® Retractable Tow Strap
4952

Housed in a self-contained case, this 2˝W x 15´L retractable tow strap unwinds easily for towing and rewinds quickly for handy storage when not in use. The high-impact case features a convenient carry handle.

Maximum Vehicle Weight: 5,000 lbs. **Webbing Capacity:** 10,000 lbs.

Keeper Retractable Tow Strap	4 lbs.	**67643**	**$23.25**

15´ Tow Strap
6273

For towing vehicles.

Durable nylon webbing absorbs jerks caused by towing. Zinc plated forged steel hooks. Measures 1-3/4˝x 15´. **Rated capacity:** 10,000 lbs.

15´ Tow Strap	2 lbs.	**94649**	**$16.95**
		4+	**$15.95**

Winch Strap
6274

Used to anchor winch cable to trees.

Prevents girdling that may harm trees. 3˝ wide heavy-duty webbed strap.

6´ Long, Rated capacity: 30,000 lbs.; Work load limit: 10,000 lbs.	2 lbs.	**67642**	**$14.25**
		5+	**$13.25**
20´ Long, Rated capacity: 22,500 lbs.; Work load limit: 11,000 lbs.	3 lbs.	**94658**	**$19.75**
30´ Long, Rated capacity: 30,000 lbs.; Work load limit: 15,000 lbs.	6 lbs.	**94633**	**$34.75**

Keeper® Ratchet Tie-Downs
6276

Easy to use!

Simply place the webbing over the load and then pump the ratchet handle to get the right amount of tension. The HI-TEST™ Webbing is designed to be extra abrasion resistant for a long and useful life. The 10,000 lb. model comes with an extra-wide and long handle to accommodate a gloved hand and provide more leverage.

Breaking Strength: 1,500 lbs.; Working Load: 500 lbs. – 1˝W x 15´L, Pack of 4	5 lbs.	**94672**	**$19.75**
Breaking Strength: 5,000 lbs.; Working Load: 1,870 lbs. – 1-1/2˝W x 15´L with Heavy-duty Double J Hooks and oversized ratchet	3 lbs.	**94651**	**$15.95**
Breaking Strength: 10,000 lbs.; Working Load: 3,330 lbs. – 2˝W x 27´L with Double J Hooks	5 lbs.	**94654**	**$19.50**

Equipment Tie-Down Straps with Hooks
6277

Use to secure valuable cargo in the bed of your truck or trailer! Great for ATVs, boats, and tarps, each webbed nylon strap is 6´ long with a 1,200 lb. capacity rating. Features non-slip, easy-to-secure/release cam buckles and vinyl coated hooks on each end of the straps. One pair of nylon straps per package. Color may vary.

Equipment Tie-Down Straps with Hooks	2 lbs.	**94659**	**$12.50**

Warn® ATV/UTV Winches
page 99

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MAASDAM POW'R-PULL

Maasdam Pow'R Lift Floor Jacks
8530

Manufacturer's Warranty **Limited Lifetime**

Use for vehicles with minimal ground clearance and motorcycles. Manufacturer's lifetime warranty.

Model MPL4136 2 Ton Capacity Trolley Jack

Small, portable design allows for easy maneuverability. Features include a removable pump handle, swivel casters, swivel saddle, and a carrying handle. Lifetime warranty from the manufacturer. Meets ANSI/ASME standard requirements.

Lifting Range: 3″ to 13″. **Saddle Dimensions:** 1.875″ diameter.

Model MPL4136 - 2 Ton Capacity Trolley Jack 20 lbs.	**67504**	**$45.50**

Model MPL1449-HD 3 Ton Capacity SUV Floor Jack

Ideal for lifting heavy vehicles. Twin pump provides speed to lower and power your lift. Foot pump provides a quick and easy lift. Meets ANSI/ASME standard requirements.

Lifting Range: 7.5″ to 21″. **Saddle Dimensions:** 2.28″ in Diameter.

Model MPL1449-HD 3 Ton SUV Floor Jack 47 lbs.	**67508**	**$88.75**

15-Minute Safety Flares page 580

Warning Triangles page 580

New! Lift-Mate for Hi-Lift Jack

For use on vehicles with larger tires that require extensive lifting height from the bumper jack. Allows the vehicle wheel to be lifted directly from the wheel, reducing the amount of travel up the jack bar. **Lift Capacity:** 5,000 lbs.

Lift-Mate for Hi-Lift Jack	4 lbs.	**67498**	**$38.75**

New! Handle-Keeper for Hi-Lift Jack

Holds the Hi-Lift® handle to the upright steel bar, keeping it in place when not in use. Also eliminates rattling during transportation.

Handle-Keeper for Hi-Lift Jack	8 oz.	**67497**	**$13.50**

Hi-Lift

Hi-Lift Jack
1511

Use as a winch, hoist, fence stretcher, post puller, spreader and more!

Lifting nose is 4-1/2″ long. 42″ Model has 32″ continuous lift; 48″ model lifts 38″; 60″ model lifts 50″, all tested to 7,000 lbs. Cast steel for strength, rigidity, and durability. Shear pin arrangement prevents dangerous overloading. Safe positive contact lifting movement. Lifting unit automatically drops away from work the moment weight is off. Handle included. Meets applicable requirements of ANSI/ASME B30.1-1992.

Maximum rated load capacity: 4,660 lbs. (2273 kg) at 48″ (121 cm). Tested to 7,000 lbs. (3175 kg). Upper 12″ rated to 2,660 lbs. (1209 kg).* Tested to 4,000 lbs. (1818 kg).* **Clamping:** 750 lbs. (340 kg). **Winching:** 5,000 lbs. (2267 kg).

42″ High Standard	28 lbs.	**67500**	**$86.75**
48″ High Standard	30 lbs.	**67114**	**$86.75**
60″ High Standard	33 lbs.	**67501**	**$86.75**

*Applies only to 60″ jack.

New! Off-Road Base for Hi-Lift Jack

Increases support surface area by alleviating jack sinkage on soft ground.

Off-Road Base for Hi-Lift Jack	3 lbs.	**67499**	**$43.75**

Loc Rac

Mounting and lock jack onto truck in horizontal or vertical position, with lock.

Loc Rac	2 lbs.	**67505**	**$32.50**

Bumperlift

For use on slotted or curved bumpers, 3000 lb. capacity.

Bumperlift	2 lbs.	**67312**	**$33.75**

InstaSeal Premium Tire Repair Kit
2947

For nail hole repairs in bias or radial tubeless tires. Includes 1 pistol grip probe, 1 pistol grip inserting needle, and 5 InstaSeal repair inserts.

InstaSeal Premium Tire Repair Kit	6 oz.	**02410**	**$7.95**
Replacement Tire Repair Inserts, Pack of 30	3 oz.	**02346**	**$4.50**

InstaSeal Tire Inflation Equalizer Hose
2947

In most cases, eliminates jacks and spare tires! In an emergency, use this tube for inflation and distribution of air pressure in tubeless tires.

InstaSeal Tire Inflation Equalizer Hose	2 oz.	**02381**	**$7.50**

Fast Fix Tire Repair Kit
7207

Perfect for fast, on-site repair of any tubeless tire on your vehicle, truck, lawn mower, ATV, skid loader, or trailer. The kit includes a heavy duty nickel-plated solid steel T-handle split eye needle, heavy duty nickel-plated solid steel T-handle spiral needle, 60 repair units (plugs), special lube, trim knife, and Allen wrench.

Fast Fix Tire Repair Kit	3 lbs.	**02330** 3+	**$16.75** **$15.25**
Replacement Tire Repair Inserts, Pack of 30	3 oz.	**02346**	**$4.50**

Wheel Chock
6272

Constructed of recycled rubber, this chock is strong, safe, and resistant to the elements. Features eyebolt for chain attachment. Chock will not damage tires and meets OSHA requirements for parked trucks and trailers. Black. 10″L x 8″W x 6″H. Sold individually.

Wheel Chock	9 lbs.	**93871** 10+	**$21.25** **$19.25**

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New! Schumacher® XC103 SpeedCharge 100 Amp Battery Charger with Engine Start

7463

Manufacturer's Warranty 2 Year

Ideal for emergency starting of SUVs, trucks, and large batteries, the XC103 provides 100 amps of power. The fully automatic, microprocessor-controlled battery charger/starter also supplies 30 amps for fast charging, 5 amps for slow charging, and 3 amps for maintaining batteries during storage. Automatic voltage detection determines if the connected battery is a 6-volt or 12-volt. A built-in battery and alternator tester provides the charge level and helps in diagnosing electrical problems. Reverse hook-up protection ensures that the charger will not operate if the clamps are reversed. A digital display, LED indicators, and button controls allow for ultimate ease of use. Wrap cleats provide convenient cord storage. Manufacturer's two-year limited warranty.

Schumacher XC103 SpeedCharge Battery Charger	12 lbs.	**02272**	**$109.95**

Schumacher® 125/15/2 Amp Battery Charger/Starter

7463

Designed for use with 6-volt and 12-volt batteries, this charger/starter features both manual and fully automatic operation. Use the 125 amp engine start function for emergency starting. The charger features a 2 amp slow charge function and a 15 amp fast charge option that charges a battery in 2 to 4 hours when time is of the essence. The charger will not overcharge batteries and features LED indicator lights and a 6-function rotary switch. Manufacturer's two-year limited warranty.

125/15/2 Amp Battery Charger/Starter	15 lbs.	**02324**	**$118.75**

Manufacturer's Warranty 2 Year

Schumacher® Instant Power™ Portable Power Sources

7466

Providing power on demand, these portable devices jump start 12-volt batteries and serve as 12-volt DC power sources. A built-in charger allows for easy automatic charging of the internal battery. One-year limited warranty from the manufacturer (90 days on battery).

IP-75 Instant Power™

This compact power source features a 7-amp hour internal lead-acid battery and produces 500 peak amps. The 18″ cable stays flexible even in cold temperatures.

IP-75 Instant Power	8 lbs.	**02336**	**$64.50**

02336

Manufacturer's Warranty 1 Year

IP-1850FL Instant Power™ with Adjustable Work Light

This versatile unit utilizes an 18-amp hour internal lead-acid battery and produces 950 peak amps. It even includes a handy halogen flex-light! A jump starter on/off switch shuts off the internal battery at the clamps to eliminate the risk of accidental shorting of clamps and battery drain. In addition, reverse hookup protection sounds an audible alarm to protect your car battery, computer, and Instant Power unit from damage if the cables are connected to the wrong terminals. The 28″ cable remains flexible in the coldest temperatures. Rust- and corrosion-proof.

IP-1850FL Instant Power with Adjustable Work Light	19 lbs.	**02357**	**$122.75**

02357

ProForce™ Portable Air Tanks

7833

Manufacturer's Warranty 1 Year

Fully assembled and ready to use, these portable air tanks feature a brass manifold, 3′ x 1/4″ air hose, air pressure gauge, air line shut-off valve, pressure relief valve, easy access fill valve, and air chuck. A durable welded-on handle allows for easy carrying. One-year limited warranty from the manufacturer. **Working Pressure:** 135 maximum PSI.

5-Gallon Portable Air Tank		16 lbs.	**67530**	**$42.95**
10-Gallon Portable Air Tank	O	30 lbs.	**67531**	**$68.95**

O Ships at Oversize rate. See Shipping Information for details.

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Heavy-Duty Jumper Cables

6209

Four-gauge, all-copper, flexible strand. No-tangle construction. Plastic-coated, no-shock, 500 amp clamps.

16 ft. Jumper Cables	5 lbs.	**02187**	**$53.50**
20 ft. Jumper Cables	6 lbs.	**02186**	**$60.50**

Bucket Boss® Cable Bag

4404

Ideal for storing jumper cables, tow straps, pneumatic hose, or extension cords. Constructed of polyester ripstop/600d polyester. **Dimensions:** 14″ x 3″.

Bucket Boss Cable Bag 10 oz.	**22732**	**$14.25**

Hy-Pro™ Professional Fuel Station pages 218 and 726

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New! Better Built® Heavy-Duty (HD) Series 71″ Crossover Boxes

4926

Each rugged crossover box features patented, self-adjusting strikers and four-stage automotive-grade rotary latches with billet push-button locks for outstanding security. The heavy-duty, foam-filled lid opens nearly 90° and utilizes auto-lift shocks. A power portal provides an easy access point to run electricity into the box, and the patented Quantum® Storage System Latch Rail is compatible with any of your peg board accessories. Two steel storage trays and a small-parts partition provide even more storage versatility. Additional features include a Climate Lock weather seal, a full-length piano hinge, a cross-broken lid design for added strength, and an abrasion-resistant powder-coat finish inside and outside. Two storage trays, heavy-duty keys, No-Drill Grip-Rite® Mounting Kit, and non-slip mat included. Boxes fit most of these full-size models: Chevrolet Silverado, Dodge Ram, Ford F-Series, Nissan Titan, and Toyota Tundra (2007 to current).

Aluminum Standard Crossover Box, Dimensions: 59-1/2″ x 70-1/2″ x 7″ x 13-3/4″ x 21-1/2″.	F	80 lbs.	**93775**	**$605.00**
Black Aluminum Low-Profile Crossover Box, Dimensions: 59-1/2″ x 70-1/2″ x 11-3/4″ x 13-3/4″ x 21-1/2″.	F	80 lbs.	**93776**	**$625.00**
White Steel Deep Crossover Box, Dimensions: 59-1/2″ x 70-1/2″ x 13″ x 19-3/4″ x 21-1/2″.	F	202 lbs.	**93777**	**$590.00**

New! Better Built® Special Edition Crown (SEC) Series 70″ Low-Profile Crossover Boxes

4926

Keep your tools and other belongings safe with these low-profile aluminum boxes! The stainless steel locking pull handles utilize two-stage automotive-grade rotary latches for excellent security. Each box also features self-adjusting strikers, a reinforced foam-filled lid, a continuous aluminum piano hinge, 100% fully welded seams, premium weather-resistant seals, and solid one-piece body construction. Heavy-duty five-pocket tray included. Boxes designed to fit these models: Chevrolet/GMC Silverado/Sierra 1500, 2500, 3500 (1988 to present); Chevrolet/GMC Silverado/Sierra Crew Cab (2007 to present); Ram 1500 Crew Cab (2009 to present); Ford F-150 (1997 to present); Ford F-150 Super Crew (2004 to present); Toyota Tundra/Tundra Crew Cab (2004 to present). **Dimensions:** 61″ x 69″ x 11-3/4″ x 13″ x 20″.

Aluminum	F	41 lb.	**93740**	**$275.00**
Black Aluminum	F	41 lb.	**93741**	**$325.00**
Matte Black Aluminum	F	41 lb.	**93742**	**$335.00**
Grip Rite No-Drill Truck Tool Box Mounting System		14 oz.	**93735**	**$25.00**

RKI C63 and C63A Cross Boxes

6253

Designed for full-size wide bed domestic.

C63 Series Cross Boxes combine all the rugged features of Rawson's double lid boxes with the convenience of a one-piece top. The C63 is constructed of heavy-duty, 14-gauge steel with a white thermomolecular fusion coating while the C63A consists of rust-resistant aluminum with a 0.080 treadplate hull and a 0.125 smooth bottom. The C63LPD Series boxes feature a low-profile design and are available in either steel or aluminum. The boxes can be opened from either end and feature locking stainless steel paddle handles, full arc welds (not spot welds), sponge rubber gaskets and weatherstripping throughout. Mounting hardware included.

Model C63 - Steel Box†	F	181 lb.	**93799**	**$627.75**
Model C63A - Aluminum Box†	F	102 lbs.	**93795**	**$764.25**
Model C63LPD - Low-Profile Steel Box†	F	180 lbs.	**93899**	**$749.50**
Model C63LPDA - Low-Profile Aluminum Box†	F	90 lbs.	**93895**	**$748.50**

Model	Type	Length	Mount Length	Mount Height	Overall Depth	Width	Designed For	Features
C63	Steel	59-3/4″	69-7/8″	10-1/4″	17-1/4″	20″	Full-size Wide Bed Domestic	Sliding Tray
C63A	Aluminum	59-3/4″	70-1/4″	10-1/4″	17-1/4″	20″	Full-size Wide Bed Domestic	Sliding Tray
C63LPD	Steel	59-3/4″	69-7/8″	13″	17-1/4″	20″	Full-size Wide Bed Domestic	Sliding Tray
C63LPDA	Aluminum	59-3/4″	70-1/4″	13″	17-1/4″	20″	Full-size Wide Bed Domestic	Sliding Tray

†This product will incur a restocking charge should it be necessary to return. For further details, please call customer service at 1-800-752-8460.

F Ships Motor Freight. See Shipping Information for details.

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New! Better Built® Heavy-Duty (HD) Series Side-Mount Box
4923

Offering a durable, convenient storage solution, each side-mount box features auto-lift heavy-duty shocks, a full-length piano hinge, and a foam-filled lid that opens nearly 90°. Self-adjusting strikers and a four-stage automotive-grade rotary latch with a billet push-button lock provide maximum security for your belongings. In addition, the patented Quantum® Storage System Latch Rail is compatible with peg board accessories to help keep contents organized. The box also features a cross-broken lid design for added strength, a Climate Lock weather seal, and an abrasion-resistant powder-coat finish on the interior and exterior. Heavy-duty keys and No-Drill Grip-Rite® Mounting Kit included.

Aluminum Side-Mount Box

46″L Aluminum Side-Mount Box, Dimensions: 46″L x 17″W x 12-1/4″H.	O 42 lbs.	93771	$430.00
60″L Aluminum Side-Mount Box, Dimensions: 60″L x 17″W x 12-1/4″H.	O 49 lbs.	93772	$445.00

White Steel Side-Mount Box

46″L White Steel Side-Mount Box, Dimensions: 46″L x 17″W x 12-1/4″H.	O 86 lbs.	93773	$365.00
60″L White Steel Side-Mount Box, Dimensions: 60″L x 17″W x 12-1/4″H.	O 115 lbs.	93774	$380.00

New! Better Built® SUV Drawer Box
4921

Designed for use in the back of your SUV or van, this locking drawer box is constructed of silver powder-coated aluminum and provides reliable security for your belongings. In addition to a chrome handle, the box features a heavy-duty drawer track for smooth opening. The top of the drawer box features a double-sided carpet/rubber mat.

Short Drawer Box Dimensions: 26″L x 37″W x 10-1/2″H. 57 lbs.	F	93769	$450.00
Long Drawer Box Dimensions: 55″L x 23″W x 10-1/2″H. 55 lbs.	O	93770	$525.00

New! Better Built® Special Edition Crown (SEC) Series Truck Chest Box
4924

This premium-quality aluminum box features solid, one-piece body construction and a recessed lid that opens nearly 90° even when positioned flush against your truck's cab. Industry-exclusive stainless steel locking pull handles and a two-stage automotive-grade rotary latch system combine to provide outstanding security. Additional features include self-adjusting strikers, a continuous piano hinge, auto-lift shocks, a reinforced foam-filled lid, and weather-resistant seals.

Dimensions: 48″L x 20″W x 18″H (Width at base is 15-3/4″).

Better Built Special Edition Crown (SEC) Series Truck Chest Box	O 36 lbs.	93734	$235.00

New! Better Built® Tall Trailer Tongue Box
4922

Ideal for storing tie-downs, wheel chocks, and towing items! This aluminum trailer tongue box features a paddle latch that ensures outstanding security as well as easy locking and unlocking. A premium shock provides maximum stability for the lid. The lid also features a reinforced brace, an adjustable striker, a continuous aluminum piano hinge, and weather-resistant seals.

Dimensions: 34″ to 21″ L x 14″W x 22″H.

Better Built Tall Trailer Tongue Box 22 lbs.	O	93768	$240.00

New! Better Built® Heavy-Duty (HD) Series Transfer Tanks
4925

These 14-gauge steel tanks are designed for the easy transport of nonflammable liquids. The tanks are 100% quality inspected with a dual pressure and submersion leak test prior to leaving the factory. Tanks feature overfill restriction for automatic shutoff at the pump, and baffles add strength while preventing contents from shifting. Each tank also has a lockable cap and coupler. Other features include flush-mounted dual 2″ reinforced bungs, a reinforced pump mounting location, and fully welded mounting brackets. Mounting kit included.

75-Gallon Combo Transfer Tank
Features both a 75-gallon transfer tank and a built-in lockable toolbox.

Overall Dimensions: 48-1/4″L x 31″W x 24″H.
Toolbox Dimensions: 48″L x 20″W x 15″H.

75-Gallon Combo Transfer Tank 211 lbs.	F	93818	$570.00

75-Gallon "L"-Shaped Transfer Tank

Dimensions: 43-1/2″L x 31″W x 24″H.

75-Gallon "L"-Shaped Transfer Tank 140 lbs.	F	93817	$365.00

100-Gallon Rectangular Transfer Tank

Dimensions: 45-1/4″L x 24″W x 24″H.

100-Gallon Rectangular Transfer Tank 131 lb.	F	93816	$350.00

Note: Tanks are intended for use with combustible fuels only (such as diesel). These tanks do not meet Department of Transportation regulations for flammable fuels (such as gasoline). Tanks are designed and manufactured to be used as liquid transfer tanks only. Not designed for use as an auxiliary fuel tank to be connected to your vehicle's primary fuel system. Tanks must be vented at all times to allow for expansion and to prevent any vacuum formation during liquid removal.

F Ships Motor Freight. See Shipping Information for details.
O Oversize. Ships UPS 30 lb. rate. See Shipping Information for details.

Crescent® Professional Tool Sets page 708

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WYPALL Wipers
2940

Made of absorbent Hydroknit, these wipers offer a cleaner, more cost-effective alternative to traditional cloth shop towels. Choose from X60 or X80 wipers. The lightweight, general purpose X60 wipers are ideal for applying thinners and solvents, removing cable lubricants, cleaning adhesives, and removing grease and soil in tight areas. The heavy-duty X80 wipers offer even more cleaning power for tough jobs like wiping metal shavings, prepping surfaces with solvents, cleaning rough surfaces, and wiping heavy-duty machines and parts. Available in a pop-up dispenser box or on a jumbo roll (dispenser available, sold separately).

WYPALL X60 Wipers, Pop-Up Box of 126 Wipers (9.1″ x 16.8″), White	2 lbs.	**33317**	**$18.95**
WYPALL X60 Wipers, Jumbo Roll of 1,100 Wipers (12.5″ x 13.4″), White	16 lbs.	**33375**	**$105.00**
WYPALL X80 Wipers, Pop-Up Box of 80 Wipers (9.1″ x 16.8″), Red	2 lbs.	**33319**	**$31.50**
WYPALL X80 Wipers, Jumbo Roll of 475 Wipers (12.5″ x 13.4″), Red	13 lbs.	**33376**	**$85.00**

WYPALL Jumbo Roll Dispenser
2940

This rugged, mobile dispenser holds Jumbo Rolls of WYPALL Wipers (sold separately). **Dimensions:** 33″H x 16-3/4″W x 18-1/2″D.

WYPALL Jumbo Roll Dispenser, Dimensions: 33″H x 16-3/4″W x 18-1/2″D 9 lbs.	O	**33328**	**$57.95**

WYPALL Waterless Cleaning Wipes
4689

On-the-go, heavy-duty hand cleaning wipes are pre-moistened with a heavy-duty waterless cleanser. Natural solvents cut through grease, grime and oil.

50-Count 1 lb.	**33318**	**$11.75**
	8+	**$10.75**
75-Count 2 lbs.	**33322**	**$18.25**
	6+	**$16.50**

Corium Antibacterial Hand Sanitizer
3792

Kills germs without water!

Effectively kills 99.9% of germs including MRSA (methicillin-resistant Staphylococus aureus). Features a fresh, clean scent, leaves no sticky residue after use, moisturizes your skin, plus it contains Aloe Vera gel and Vitamins A & E. To use, apply enough product to thoroughly wet hands and allow hands to air dry. Contains 62% FDA approved Ethyl Alcohol (CDC recommended).

4 oz. Bottle 5 oz.	**25376**	**$2.55**
	12+	**$2.25**

Heavy-Duty Waterless Hand Cleaner with Grit
8560

To use, simply rub into skin, wait a few seconds, and wipe off the grime with a cloth or towel. Water may also be used. Gel has fine pumice to remove grime, ink, grease and paint. Smooths rough, dirty hands and aids dry, damaged skin. Non-greasy, non-petroleum base. Neutralizes gasoline, paint, and diesel odors. Completely biodegradable - based on renewable corn-oil.

Heavy-Duty Waterless Hand Cleaner with Grit 1 lb.	**33314**	**$7.75**
	12+	**$7.25**

O'Keeffe's® Working Hands®
4619

Made in USA

Effectively hydrates even the driest skin!

With a unique formulation of moisturizing ingredients, this soothing cream relieves severely dry, cracked, split skin. A high concentration of glycerin draws in and retains moisture, resulting in healthy, smooth skin. Non-greasy and odorless. Made in USA. 3.4 oz. Jar.

3.4 oz. Jar 5 oz.	**33290**	**$8.95**

O'Keeffe's® for Healthy Feet
4618

Made in USA

Provides powerful relief for dry, cracked skin on the feet and heels!

This glycerin-based formula draws in and retains moisture to promote the healing of dry, cracked, split skin. A higher concentration of Allantoin allows for better absorption of moisture through the tough, thick skin of the feet and heels. Non-greasy and odorless. Made in USA. 3.2 oz. Jar.

3.2 oz. Jar 4 oz.	**33289**	**$8.95**
	3+	**$8.40**

O Oversize. Ships UPS 30 lb. rate. See Shipping Information for details.

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STA-BIL

STA-BIL® Ethanol Treatment

7877

Ideal for use in cars, trucks, and small engines, this treatment helps prevent corrosion caused by ethanol-blended fuels. The treatment works by removing water from fuel and cleaning fuel injectors, carburetors, and intake valves for improved overall performance. Recommended for use at every fill-up.

10 oz. Bottle, Treats up to 25 gallons	10 oz.	**93101**	**$7.95**
	12+		**$7.25**

STA-BIL

STA-BIL® Fuel Stabilizer

7878

Designed for use in all 2-cycle and 4-cycle gasoline engines. Keeps fuel fresh for fast, easy starts even after storage and eliminates the need to drain fuel. It removes water to prevent engine corrosion and cleans carburetors and injectors. Protects engine from damaging gum, varnish, rust, and corrosion. Recommended for use at every fill-up.

16 oz. Bottle, Treats up to 40 gallons	1 lb.	**93082**	**$9.75**
	12+		**$8.95**

STA-BIL

STA-BIL® Marine Formula Ethanol Treatment

7879

Protect your boat or other marine equipment from the adverse effects of ethanol-blended fuel! This special marine formula contains more than four times the fuel system cleaner and double the corrosion preventer of the regular STA-BIL formula. The treatment improves marine engine performance year-round by preventing corrosion caused by moisture and water attraction. Recommended for use at every fill-up.

8 oz. Bottle, Treats up to 25 gallons	9 oz.	**93041**	**$9.75**
	8+		**$9.10**

Super Funnel

7647

Ideal for dispensing petroleum-based fluids and numerous other applications. Made of tough, high-density resin. 17.75″ x 5″ x 5″.

Super Funnel	4 oz.	**93143**	**$2.95**

3-Piece Assorted Funnels

7646

Includes the small, medium and large funnels. Easy to use and made of tough, high-density resin.

3-Piece Assorted Funnels	5 oz.	**93141**	**$4.95**

Gasoline Tank Snake™

4608

Removes water that is naturally attracted by ethanol-blended fuels!

Utilizing a proprietary blend of polymers and microporous material, the Gasoline Tank Snake absorbs both free and bound water in ethanol-blended gasoline. The device turns light blue as it begins to absorb water and becomes dark blue when saturated to provide a visual indication that it needs to be replaced. Use in gas cans or in the gas tanks of power equipment, boats, motorcycles, ATV's, UTV's, or recreational equipment. Non-hazardous and non-toxic, the Gasoline Tank Snake also contains a fuel preservative to keep fuel fresh, especially in storage.

Gasoline Tank Snake	2 oz.	**93084**	**$8.50**

Note: Not intended for automotive use or other applications involving a filler neck where the device could get caught.

STA-BIL

TruFuel 50:1 Engineered Fuel/Oil

7712

The only engineered 2-cycle fuel ready to use - straight from the can! This high-performance, ethanol-free fuel is pre-mixed with the most advanced synthetic lubricant and performance enhancing additives available. Just pour it from the can into your 2-cycle equipment and go. No measuring, no mess! Remains fresh more than 2 years after opening the can due to its proprietary formulation. Case of six 32 oz. cans.

TruFuel, Case of 6 - 32 oz. cans	Ⓡ	12 lbs.	**93125**	**$35.50**

Ⓡ Cannot ship by air

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Youngstown Safety Utility Gloves page 620

Pacer® Hand Dispensing Pumps
6310

EPDM hose model or nitrile hose model.

Constructed of engineered thermoplastics for point-of-use dispensing of chemicals and water. O-ring and gasket materials are cork-nitrile and viton, enabling use with agricultural chemicals and petroleum products. Other features include: handle with eyes for padlocking and two positions for operation at any angle, built-in hanger that protects nozzle from contamination, siphon breaker, internal corrosion-resistance stainless steel parts, and stainless steel suction screen to protect from solids. Two models available. Nitrile hose model ideal for petroleum fluids. EPDM hose model for general service with most agricultural chemicals. Pumps come complete with 1″ polyester suction and 3/4″ x 8′ discharge hose with elbow and discharge spout.

Discharge: approximately one quart per complete cycle. **Self-primes:** 15 feet. **Maximum discharge head:** 25 feet. **Maximum viscosity:** 2,000 SSU.

Hand Pump with EPDM Hose 10 lbs.	**93112**	**$137.25**
Hand Pump with Nitrile Hose 11 lbs.	**93113**	**$129.25**

BLACK & DECKER

Black & Decker Jack Rabbit™ Pump
6314

Transfers gasoline, water, oil, and other liquids. Self-priming, easy to operate. Pumps one to two gpm up to 17′ high. May also be used to spray solution. Rugged plastic, non-rusting. Not for industrial use. Includes pump, 7′ vinyl tubing, 3′ nylon dip tube, 5′ neoprene intake hose, sprayer weight with screen, hose clamp, and dip tube marker.

Black & Decker Jack Rabbit Pump	1 lb.	**93181**	**$57.95**

Drum Opener
6317

33- or 55-Gallon drum opener for any design bung. Brass, non-sparking.

Drum Opener	10 oz.	**93206**	**$34.75**

Beckson Model #9A Pump
6313

For gasoline, diesel fuel, other petroleum products, as well as water. Pumps 8 gallons per minute or 5 oz. per stroke. General utility lift-syphon pump. PVC construction. 9″ Long x 1-1/4″ diameter. Six feet of 7/16″ I.D. hose on inlet and three feet of 7/16″ I.D. outlet hose. Approximately 8′ vertical lift.

Beckson Model #9A Pump	15 oz.	**93178**	**$28.95**

Plastic Syphon Pump
6308

Pumps five gallons per minute!

For dispensing acids, caustics, light oils, waxes, and disinfectants. Bellows operated. Syphon to a lower or pump to a higher level. 4-1/2′ Flexible discharge tube. Meets OSHA requirements. For 15-, 30-, and 55-gallon containers. Model 4A-22″ IPS threaded male adapter.

Plastic Syphon Pump 12 oz.	**93186**	**$13.75**

Beckson Hand Pump for Water
2555

Ideal when the repair of an irrigation system requires the water to be removed. Made of high impact PVC, this 1-3/4″ diameter pump is non-sparking, lightweight, needs no priming, and has a 1-1/4″ diameter outlet hose.

Beckson Hand Pump for Water 1 lb.	**93175**	**$43.95**

Beckson Acid Transfer Pump
6315

One gallon per six strokes. PVC shaft/body 38″ long. Seals are DuPont Viton®. Standard 2″ IPS Bung. Adapter adjusts to any size container. Self-priming. 6′ Hose.

Beckson Acid Transfer Pump 2 lbs.	**93177**	**$86.25**

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Justrite Mini Safety Cabinet
1519

Safe, transportable storage for oils, chemicals, and cleaners! OSHA compliant, fire resistant design offers the smallest available safety cabinet footprint for easy mobility on service vehicles, carts and maintenance trikes for point-of-use applications. Flush mounted U-Loc™ handle comes with 2 keys and accepts optional padlock. Cabinet comes with one adjustable shelf, 3 bungee cords to keep contents in place during movement, and features a leaktight 2" (51mm) well. Made of durable steel with a tough powder paint finish and dependable 3-pt. latching system. 10-year manufacturer's limited warranty. **Dimensions:** 22″ x 17″ x 8″.

Justrite Mini Safety Cabinet	43 lbs.	**85392**	**$345.00**

Quality Fire Extinguishers by AMEREX® page 140

Justrite® Safety Storage Cabinets
1519

Store and organize flammables and combustibles!

Features include: Justrite storage cabinets feature a 2″ leakproof sill built into the base to contain spills; 18-gauge double-wall with 1-1/2″ insulating air barrier; three-point lock with fail-safe closing mechanism; and dual vents with built-in flash arresters. "Flammable. Keep Fire Away" and fire hazard symbols on each cabinet's door.

Justrite 30-Gallon Capacity Safety Can Cabinet

This two-door cabinet with one adjustable shelf can hold up to 30 gallons. Meets OSHA, Factory Mutual, Underwriters Laboratories, and National Fire Protection Association specifications. **Dimensions:** 44″ x 43″ x 18″.

30-Gallon Capacity Safety Can Cabinet	F	180 lbs.	**85507**	**$708.00**

Justrite 40-Gallon Class III Liquids Cabinet

Store paints and ink in this two-door cabinet with three adjustable shelves that will store up to 40 gallons.Meets OSHA, Factory Mutual, Underwriters Laboratories, and National Fire Protection Association specifications. **Dimensions:** 44″ x 43″ x 18″.

40-Gallon Class III Liquids Cabinet	F	239 lbs.	**85510**	**$739.00**

Justrite 45-Gallon Capacity Safety Can Cabinet

This two-door cabinet with two adjustable shelves has a capacity of 45 gallons. Meets OSHA, Factory Mutual, Underwriters Laboratories, and National Fire Protection Association specifications. **Dimensions:** 65″ x 43″ x 18″.

45-Gallon Capacity Safety Can Cabinet	F	300 lbs.	**85508**	**$876.00**

Justrite 60-Gallon Capacity Safety Can Cabinet

This two-door cabinet with two adjustable shelves has a capacity of 60 gallons. Meets OSHA, Factory Mutual, and National Fire Protection Association specifications. **Dimensions:** 65″ x 34″ x 34″.

60-Gallon Capacity Safety Can Cabinet	F	387 lbs.	**85509**	**$1029.00**

Note: The state of California requires safety storage cabinets to have self-closing doors. Models with self-closing doors are available as special order items. Call Customer Service at 800-752-8460 for details.

F Ships Motor Freight. See Shipping Information for details.

Oil-Dri™ Five-Gallon Bucket Spill Kit
2589

Portable, multi-purpose spill kit.

Included in this self-contained kit are the supplies you need to contain and absorb a variety of fluids including oil, grease, coolants, and water. Perfect for emergency use, the kit is compact enough to store in a vehicle or anyplace where quick response is vital. The 5-gallon reusable plastic pail includes two 4′ general socks, ten universal perforated pads, and a disposable bag with tie.

Oil-Dri Five-Gallon Bucket Spill Kit	5 lbs.	**93283**	**$40.75**

Forest Resources Association Spill Response Kit
3834

Includes 10 oil-only mats (to absorb hydrocarbons, not water), 10 universal mats (to absorb acids, caustics, water-based fluids and hydrocarbons), 3 basic snakes (to absorb hydrocarbons and coolants), 1 set of nine different-sized, tapered wooden plugs (to plug hole in tank or break in cross-over line), 1 jar of 3B putty (to seal punctures in tanks), 2 clear disposal bags (to hold used products until the time for disposal), and a 15″ x 18″ x 5″ clear vinyl zipper bag which holds the kit components and provides quick view allowing for easy access. Absorbs 4.5 to 5 gallons.

Forest Resources Association Spill Response Kit	4 lbs.	**93301**	**$39.90**
		5+	**$35.50**
		10+	**$33.95**

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CARB Compliant No-Spill® Fuel Cans

Made in USA

8284

The most user-friendly fuel cans available! Meet the California Air Resources Board (CARB) requirements for portable fuel containers. Professional quality features include self-venting/self-sealing, fast flow rate of 3 gpm, thumb button flow control, stainless steel filter screen, quart and liter markings molded in for easy reference, and the cans are semi-translucent to see fuel level. Cans are designed to empty completely without tilting or shaking and have a 7/8″ funnel spout. The wide, stable bases reduce upsets.

The 1.25-Gallon and 2.5-Gallon cans feature view strips on the front and back that allow users to easily determine the fuel level. The 5-Gallon cans feature a rear handle for balanced pouring.

1.25 Gallon	1 lb.	**93328**	**$22.50**
No-Spill Gasoline Can		4+	**$20.50**
2.5 Gallon	2 lbs.	**93329**	**$26.95**
No-Spill Gasoline Can		4+	**$24.50**
5 Gallon	3 lbs.	**93330**	**$41.95**
No-Spill Gasoline Can		4+	**$38.75**

CARB Compliant Diesel Can

Meets California Air Resources Board (CARB) requirements for portable fuel containers in California. Unique features to these cans include a specially treated body for low permeation and a stronger spring pressure of 10 lbs. internal pressure without venting into the atmosphere.

CARB Compliant 5 Gallon	3 lbs.	**93272**	**$41.95**
No-Spill Diesel Can		4+	**$38.75**

Flexible Spout

Fits all No-Spill Cans. Easily extends your No-Spill spout for filling those hard to reach applications. Special tubing stays flexible - will not harden or crack in fuels or cold. Includes molded spout with attached dust cover. Can stack together for the really hard to reach applications.

6″ No-Spill Flexible Spout Extension	2 oz.	**93259**	**$6.25**

Parts & Accessories

Replacement Nozzle Assembly for No-Spill Cans	4 oz.	**93327**	**$10.50**
New! DOT Cap for 5-Gallon No-Spill Cans	6 oz.	**93342**	**$10.95**

Justrite® Oily Waste Cans

7982

Use everywhere you find fluid soiled rags and wipes to reduce the risk of fire caused by spontaneous combustion. Oily Waste Cans feature quiet, self-closing lids; foot-operated cover; reinforced sides; durable powder paint finish; carry handle; trilingual safety label; round construction; and raised, flow-through base for dissipating heat. Independently tested and approved by FM Global, Underwriters Laboratories, and Technical Inspection Association certified. As required by UL, the self-closing lid opens no more than 60°.

6-Gallon Oily Waste Can	10 lbs.	**93340**	**$61.95**
10-Gallon Oily Waste Can	13 lbs.	**93341**	**$70.95**

Hy-Pro™ 15-Gallon Professional Fuel Station

7874

Model FST-15

Designed for mounting to a trailer, this 15-gallon gravity-feed fuel station is made of rugged steel and can be used with all types of fuel. Features include a 10′ hose with metal nozzle and a shut-off ball valve. The gravity feed tank requires mounting at a higher level than receiving tanks. Mounting hardware included. UN/DOT compliant. **Unit Dimensions:** 38″L x 11″W x 14″H.

Hy-Pro™ 15-Gallon Professional Fuel Station	O	30 lbs.	**94721**	**$158.95**

New! NATO Jerry Cans

4705

Made to the highest specs! Manufactured from 0.9 mm cold rolled steel, these cans are fully paint-coated inside and outside with an epoxypolyester powder coat plus they have an additional inside resin coating for long-term fuel storage and to prevent rusting. Other features include a full, internal breather pipe for splash-proof pouring, dual pan construction, seam welded construction for extra strength, leakproof bayonet closure, locking pin in cap, and a strengthened hinge on cap to prevent accidental bending when closing. Cap is designed to hold open when discharging the can. Includes EPA/CARB compliant spout and unleaded auto filler adapter. Cans are manufactured and tested to comply with the following standards: DIN 7274 and BAM – GGR001; Australian Standard – AS 2906; German Standard – TUV/GS; Swedish Standard - SP; UN – Dangerous goods approval.

O Ships at Oversize rate. See Shipping Information for details.

NATO 5-Liter Jerry Can With Spout EPA/CARB Compliant

5-Liter Jerry Can holds 1.32 gallons of liquids.

5-Liter Jerry Can with Spout, Red	4 lbs.	**93170**	**$73.99**
5-Liter Jerry Can with Spout, Green	4 lbs.	**93172**	**$73.99**

NATO 20-Liter Jerry Can With Spout EPA/CARB Compliant

20-Liter Jerry Can holds 5.28 gallons of liquids.

20-Liter Jerry Can with Spout, Red	10 lbs.	**93171**	**$79.99**
20-Liter Jerry Can with Spout, Green	10 lbs.	**93173**	**$79.99**
Holder for 20-Liter Jerry Can	6 lbs.	**93174**	**$44.99**

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Justrite® Type I Safety Cans
6304

Manufacturer's Warranty 10 Year

These Factory Mutual System-approved safety cans are economically designed with a single leakproof spout from which you fill and pour. Constructed of heavy 22-gauge steel with a spring-mounted relief vent that automatically vents pressure when it reaches 5 psig and a free-flow 3-1/2″ long chemical-resistant stainless steel flame arrester which prevents flashback ignition. The warning label includes an extra large ID zone for user labeling of contents. One-gallon model features a fixed handle with a trigger release cap. Two- and five-gallon models feature a swinging handle designed for easy handling of 60-pound plus loads. Fits standard carriers. Optional stay-on, polypropylene 11-1/4″L funnel spout is available. The two-position funnel features a hinged design which allows you to safely pour from or fill the can without detaching the funnel from the can. The two-step nozzle tip can be trimmed to either 1/2″ or 3/4″ OD for a custom fit. UL® approved. Meets OSHA and NFPA standards. Ten year manufacturer's warranty.
Note: Not for use over-the-road.

One-Gallon Gasoline Safety Can	4 lbs.	**93135**	**$35.50**
Two-Gallon Safety Can	5 lbs.	**93136**	**$38.25**
Five-Gallon Gasoline Safety Can	7 lbs.	**93137**	**$41.75**
Five-Gallon Diesel Safety Can	7 lbs.	**93123**	**$53.50**
Optional Stay-On Funnel	10 oz.	**93138**	**$7.70**

Justrite® UNO DOT Safety Can
2065

Only can to earn both UN and FM approvals!

Ideal when remote usage of flammables is necessary or anywhere gas fueled equipment is used. The heavy-duty roll bar construction protects the fill and pour mechanisms from damage in a fall, while providing additional, rugged handholds to the standard handle. The rear spout has an easy-to-operate hand mechanism for protection against content spillage when in transport mode. Dual fusible link bracket is easy to engage and guards against content spillage and fume release as required by D.O.T., when used for transportation of fuel. The fusible link melts at 165°F to prevent dangerous pressure build-up at elevated temperatures. Simply disengage the fusible link bracket when the can is not being used for transportation purposes and the can acts like a normal safety can. A second, easily operated hand-actuated mechanism secures the pour spout valve against content spillage in transport mode for protection in shock load conditions. Meets D.O.T. and HM-181 requirements and UN Approved.

Five-Gallon Can	15 lbs.	**93140**	**$213.25**
		3+	**$205.25**

Justrite® Type II AccuFlow™ Safety Cans
2064

Manufacturer's Warranty 10 Year

These safety cans provide fast, precision pouring when handling flammable liquids. The patented, innovative manifold automatically vents for smooth, glug-free liquid flow, and the comfortable Safe-Squeeze® trigger offers maximum control when pouring. A 9″ flexible metal hose ensures targeted pouring into small openings. The fill port features an ergonomically designed handle that makes filling easy. Safety features include a long lasting stainless steel flame arrester that dissipates heat to prevent flashback ignition and a gasketed, self-closing, leak-tight lid that automatically vents to guard against rupture or explosion. The warning label features an extra large ID zone that permits the user to identify contents, department location, or individual user name. All can sizes have extra capacity for mixing in additives for two cycle engines. All cans meet OSHA and NFPA standards and are FM Approved and UL/ULC Listed. Ten year manufacturer's warranty.

One-Gallon Safety Can	6 lbs.	**93126**	**$75.25**
		4+	**$69.75**
Two-Gallon Safety Can	6 lbs.	**93127**	**$76.25**
		4+	**$71.25**
Five-Gallon Safety Can	9 lbs.	**93128**	**$78.50**
		4+	**$72.50**

Five-Gallon Military Style Metal Gasoline Can
6301

Made in USA

Tradition meets innovation with this Enviro-Flo five-gallon gasoline can! The can features an advanced spout design, and emission-reducing technology delivers an environmentally safe fuel storage solution. The easy to use spout features convenient variable flow, automatic venting, automatic locking when the lever is released, and an airtight seal when not in use to reduce spills. Constructed of heavy-gauge steel, this can meets D.O.T. regulations and complies with California Air Resource Board requirements and EPA requirements for portable fuel containers. Includes metal bung for transportation and storage and a handy, flexible 6″ extension tube.

Five-Gallon Military Style Metal Gasoline Can	8 lbs.	**93130**	**$53.95**
		5+	**$51.25**

WEDCO Two-in-One Mix Gas/ Bar Oil Container
6300

Made of high-density polyethylene for unlimited uses. Store two-cycle gas/oil mix in one side and chain bar oil in other side. Spouts meet CARB compliant standards and are child-resistant. UL® classified, MA Fire Marshall approved, and C.S.A. approved.

1-1/2 gal. (2-1/2 qt.)	2 lbs.	**93260**	**$30.95**
		6+	**$28.95**
		12+	**$25.50**

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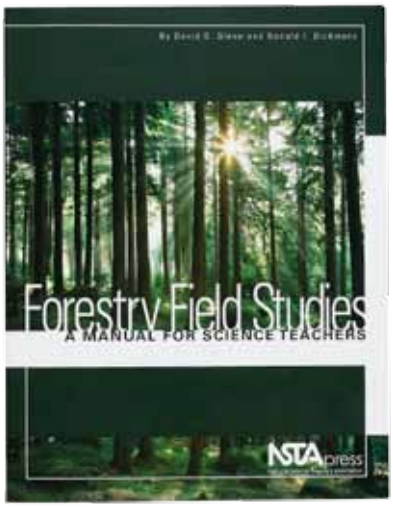
Arboriculture and Forestry Reference Books

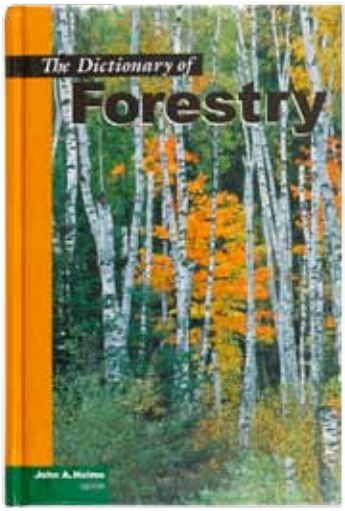


Forestry Field Studies: A Manual for Science Teachers

7514

By David D. Glenn and Donald I. Dickmann. National Science Teachers Association Press, 2009. This hands-on manual guides teachers step-by-step through a comprehensive set of exercises related to forestry field studies. The manual includes information on basic ecology and forestry principles, necessary pre-fieldwork preparation, actual fieldwork, post-field trip data analysis, and report writing. Paperback. 102 Pages.

Forestry Field Studies: A Manual for Science Teachers	12 oz.	**59810**	**$14.95**



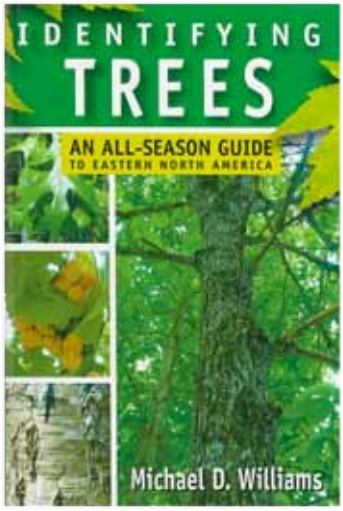
Dictionary of Forestry

1362

A dynamic, up-to-date revision of the 1971 Terminology of Forest Science, Technology, Practice, and Products.

Edited by John A. Helms. The Society of American Foresters, 1998. Terms and definitions reflect current professional use and acceptance to help readers communicate more precisely, clearly, and consistently. Hardcover. 210 Pages.

Dictionary of Forestry	1 lb.	**59801**	**$49.95**



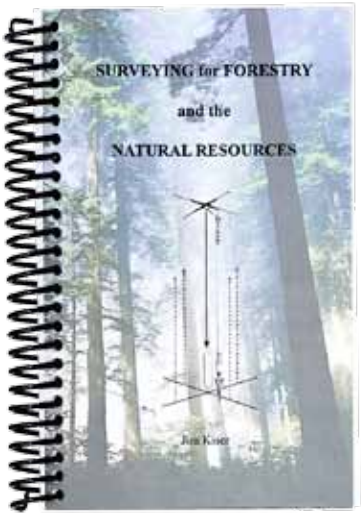
Identifying Trees

8388

An All-Season Guide to Eastern North America

By Michael D. Williams. Stackpole Books, 2006. This unique identification guide is filled with 600-color photos and 200 black and white illustrations. Color photos show bark; branching patterns; fruits, flowers or nuts; and overall appearance as well as leaf color and shape - all chosen specifically to illustrate trees in spring, summer, fall and winter. Accompanying text describes common locations and identifying characteristics. 5-1/2″ x 8-1/4″. Paperback. 416 Pages.

Identifying Trees	2 lbs.	**59805**	**$29.95**

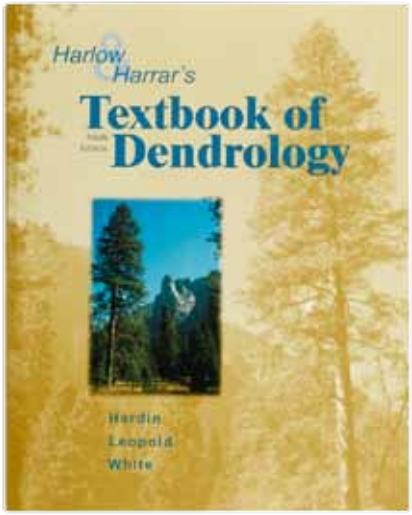


Surveying for Forestry and the Natural Resources

1366

Second Edition. By Jim Kiser, Oregon State University. John Bell and Associates, 2010. Emphasizes the fundamental science and theory of surveying and land measurements while also providing an introduction to technological advances in the surveying profession such as GPS and GIS. Spiral bound. 275 Pages.

Surveying for Forestry and the Natural Resources	6 oz.	**39558**	**$29.95**



Textbook of Dendrology

1356

By Hardin, Leopold, and White. Ninth Edition. McGraw-Hill Pub., 2001. Includes: Nomenclature, Identification, Ecology, Variation, Description of Species, Dendrochronology, Gymnosperms, Cycadales, Ginkgoales, Gnetales, Coniferales, Taxales, Angiosperms, The Plant Families, I. Amentiferae, II. Floriferae, Glossary, Official State Trees of the United States, American Forestry Association's "Social Register of Big Trees," Derivations and Synopsis of Some Scientific Names, Synopsis of Some Important References. Softcover. 544 Pages.

Textbook of Dendrology	2 lbs.	**59829**	**$197.50**

Forest Measurements

1351

By Thomas Eugene Avery and Harold E. Burkhart. Fifth Edition. Contents: Introduction To Land Measurements, Cubic Volume, Cord Measure and Weight Scaling. Log Rules and Scaling Practices. Measuring Standing Trees. Volumes and Weights of Standing Trees. Specialty Wood Products. Sampling and Estimation Inventories with Point Samples. Inventories with 3P Sampling. Using Aerial Photographs. Site, Stocking, and Stand Density. Tree-Growth and Stand Table Projection. Growth and Yield Models. Appendix Tables. Hardcover. 442 Pages.

Forest Measurements	2 lbs.	**59866**	**$265.50**

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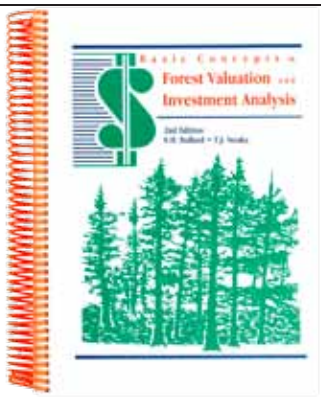
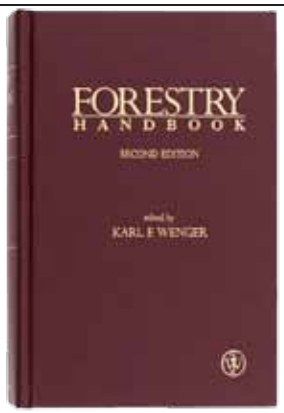


Forest Valuation and Investment Analysis
1357

Ideal for use in undergraduate and graduate forestry education programs, as well as in forest valuation workshops.

Second Edition. Written by Stephen H. Bullard, Mississippi State University Department of Forestry and Thomas J. Straka, Clemson University Department of Forest Resources. Addresses basic applications of compound interest techniques for evaluating forestry investments. Describes the most popular financial criteria for forestry investments, and has example analyses of sivicultural practices like pruning, fertilization, herbicide use, and others. Includes sections on land and timber appraisal, inflation, taxes, and computer programs. Provides a separate, thorough review of financial analysis concepts for those preparing to take the Registered Forester Exam. Plastic coil binding. 276 Pages.

Forest Valuation and Investment Analysis	2 lbs.	**59766**	**$72.00**

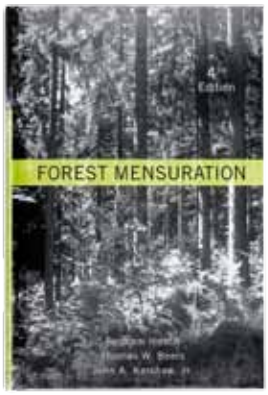


Forestry Handbook
1352

A "one-volume library" for the working forester.

Second Edition. **Contents:** Forest Ecology, Geology and Soils. Forest Meteorology and Climatology. Forest Insect and Disease Management. Fire Management. Timber Measurements. Timber Inventory. Silviculture. Genetic Improvement of Forest Trees. Logging. Forest Products Utilization. Forest Trees. Logging. Forest Hydrology and Watershed Management. Wildlife and Fish Management. Range Ecology and Management. Outdoor Recreation Management. Urban Forestry. Analysis for Managerial Decision. Forest Road Engineering. Land Surveying. Aerial Photography. Forest Resource Law. Management of People. Communication and Public Involvement. Safety Mathematics and Statistics. Hardcover.

Forestry Handbook	4 lbs.	**59800**	**$396.95**



Forest Mensuration
2693

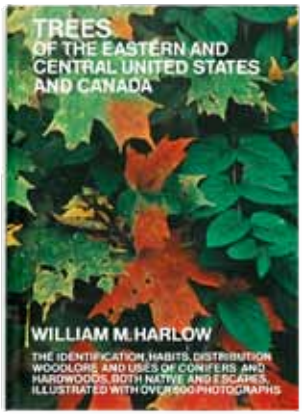
Fourth Edition. By Bertram Husch, Thomas W. Beers, and John A. Kershaw, Jr. John Wiley & Sons, Inc., 2003. Provides new, complete coverage of current measurement practices and technological applications that expand the role of forest mensuration to include monitoring forest resources. This integrated approach takes into account all the resources of a forest, including such nontimber vegetation parameters as regeneration, lesser vegetation, woody detritus, and carbon. Also includes applications of personal computers, GPS, GIS, key concepts of tree-stand parameters and principles, fundamental concepts of sampling methods, and English and metric units. Appendix and references. Hardcover. 442 Pages.

Forest Mensuration	2 lbs.	**59788**	**$169.95**

Trees of the Eastern & Central United States and Canada
1364

By Dr. William M. Harlow. Dover Publications, Inc., 1957. Uses easy-to-understand terminology and illustrations in discussing attributes of trees found throughout eastern/central U.S. and Canada. More than 140 different trees are described in detail with information on general appearance, habit of growth, leaf forms, flowers, fruit, twig appearance, bark, habitat, distribution by states, and commercial use. Softcover. 5-1/2˝W x 6-1/4˝L. 288 Pages.

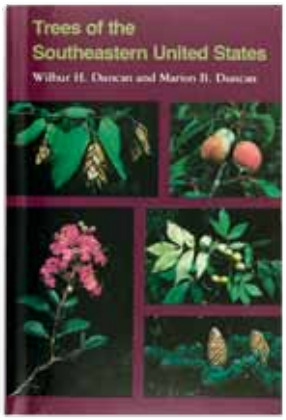
Trees of the Eastern & Central US & Canada	8 oz.	**61002**	**$10.95**



Trees of the Southeastern United States
1360

By Wilbur H. Duncan and Marion B. Duncan. The University of Georgia Press, 1988. Accurately identify any of the Southeastern United States' 306 species of trees with this full-color field guide. Contains identification keys, color photographs, distribution maps, and helpful line drawings. 336 Pages. Softcover.

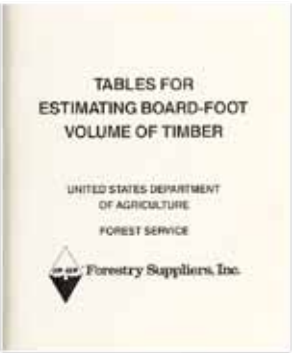
Trees of the Southeastern United States	1 lb.	**59621**	**$25.25**



JIM-GEM® Tables for Estimating Board-Foot Volume of Timber
1349

By Mesavage and Girard, U.S. Forest Service. Pocket-sized book presents tables listing gross volume in board feet by diameter classes and by number of 16´ logs per tree. Maximum 40˝ dbh, six logs. Tables for International 1/4˝ rule, Scribner rule and Doyle rule. **Size:** 4˝ x 5˝. 94 Pages.

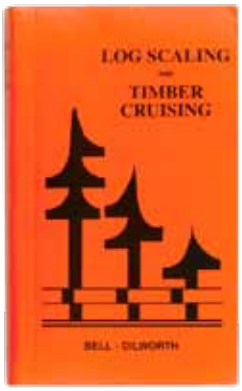
JIM-GEM Tables	2 oz.	**59335**	**$8.30**
	6+		**$7.50**



Log Scaling and Timber Cruising
1372

By John F. Bell and the late J. R. Dilworth, Oregon State, 1993. Includes Variable Plot and 3P Cruising (and a method for combining these surveys); regeneration surveys; taper equations; V-Bar measurements; and $-Bar assessment. Primarily western timber, but has been used throughout the United States and Canada. 124 pages of tables including cubic-foot volume, board foot volume and more. 5˝ x 6-1/2˝ x 1˝, with plastic covers. 439 Pages.

Log Scaling and Timber Cruising	12 oz.	**59746**	**$30.75**



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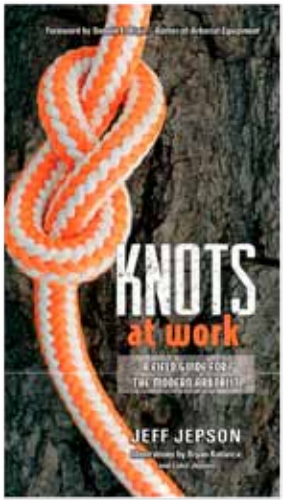
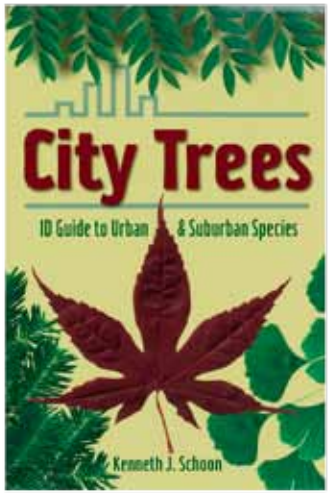


New! Knots at Work
4892

By Jeff Jepson. Illustrations by Bryan Kotwica. Beaver Tree Publishing, 2014. Presents over 50 arborist knots with information on both knot construction (tying the knots) and application (using the knots). Offering more than 200 illustrations and utilizing a handy cross-reference format, this compact book measures 4.5″ x 8″ and is ideal for field use. Softcover. 184 Pages.

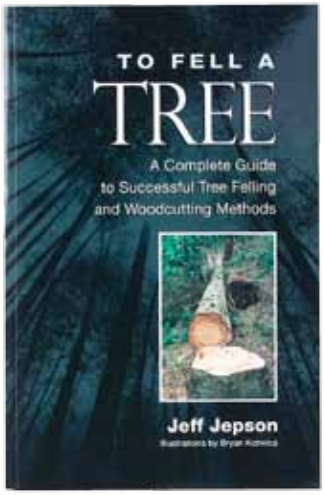
Knots at Work	7 oz.	**59628**	**$16.95**



City Trees: ID Guide to Urban & Suburban Species
7978

By Kenneth J. Schoon. Stackpole Books, 2011. This field guide focuses on 129 of the trees most commonly found in North American urban environments, both native and nonnative species. In addition to essential facts that assist in identification, the guide includes information about the history, scientific name, and uses of each tree. Features over 200 color photos showing the leaves, flowers, fruits, and seeds of the trees. 128 Pages. Softcover.

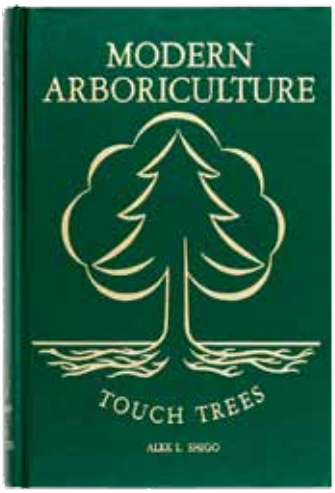
City Trees: ID Guide to Urban & Suburban Species	8 oz.	**61359**	**$16.95**



To Fell a Tree
7353

By Jeff Jepson. Illustrations by Bryan Kotwica. Beaver Tree Publishing, 2009. Written for the professional tree cutter as well as the weekend woodcutter to provide a complete guide to successful tree felling and woodcutting methods. Step-by-step methods and more than 200 illustrations. Topics include preparations before the work begins, felling a tree using a three-step procedure, felling difficult trees, and limbing and bucking the tree. **Other topics include:** potential work hazards, chain saw safety, personal protective equipment, protecting people and property, felling storm-damaged trees, moving limbs and logs, and methods for splitting and stacking wood. 160 Pages. Softcover.

To Fell A Tree	10 oz.	**59624**	**$18.95**

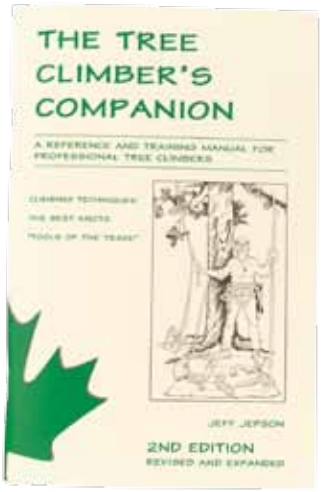


Modern Arboriculture: A Systems Approach to Practical Tree Care
1832

Makes complex concepts easy to understand!

By Dr. Alex L. Shigo. Introduces new and better ways to help trees stay healthy, safe, and attractive. It discusses how the tree system grows, defends itself, and eventually dies. Features 311 diagrams plus 16 full-color photos. Hardcover. 440 Pages.

Modern Arboriculture: A Systems Approach to Practical Tree Care	2 lbs.	**59988**	**$68.00**

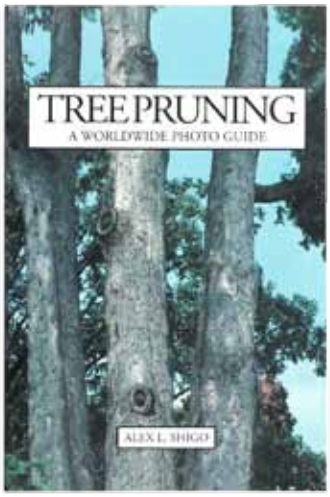


The Tree Climber's Companion
1696

Second Edition

Revised and expanded. A compact field reference and training manual for tree climbers! Written by Jeff Jepson, a certified Arborist with over 200 illustrations by Bryan Kotwicka. Includes P.R.E.P. (revised climbing system), tying in procedure, climbing with spurs, ascending and descending techniques, knots for the tree climber, safety standards and more. Softcover. 104 Pages.

The Tree Climber's Companion English Version	6 oz.	**59625**	**$12.50**



Tree Pruning: A Worldwide Photo Guide
1835

Easy to read, understand, and put into practice.

By Dr. Alex L. Shigo. 1989, Shigo and Trees. Covers branch anatomy, proper and improper cuts, topping, shaping, shearing, dressings, wildlife, safety, trees and people, trees and their associates, and much more. Features 126 color photographs, 24 black and white photographs, diagrams, appendix, and reference sources. 6-1/4″ x 9-1/4″. Softcover. 192 Pages.

Tree Pruning: A Worldwide Photo Guide	1 lb.	**59943**	**$41.90**

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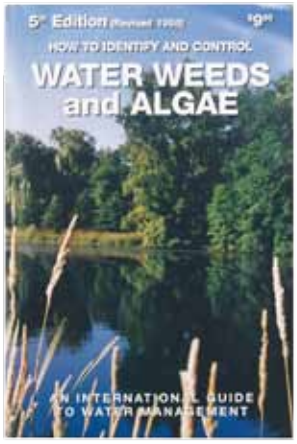


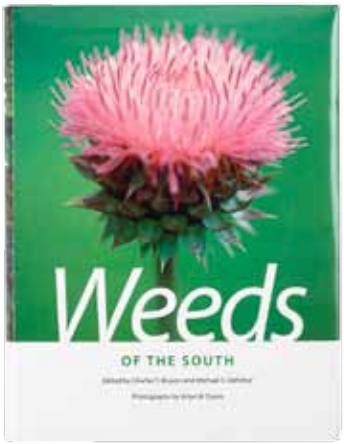
How to Identify and Control Water Weeds and Algae

5085

Provides step-by-step instructions for controlling undesirable vegetative growth using aquatic herbicides and algaecides.

Created and produced by Applied Biochemists. Includes a detailed section on plant identification, recommended controls and alternatives for each troublesome species, directions for determining size of treatment area, choosing the best product(s), and calculating dosages. Includes discussion of choice and operation of application equipment and informative tips on application techniques and safety. A follow-up section assists with maintenance program development and answers post-treatment questions. Glossary included. Softcover. 128 Pages.

How to Identify and Control Water Weeds and Algae	8 oz.	**59941**	**$10.50**

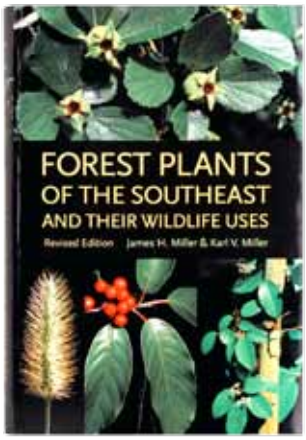


Weeds of the South

7288

Edited by Charles T. Bryson and Michael S. DeFelice. Photography by Arlyn W. Evans. The University of Georgia Press, 2009. With more than 1,500 full-color photographs, this book provides valuable information on 400 of the most troublesome weedy and invasive plants in the southern United States. Each plant is identified at various life stages, and details are provided about origin, habitat, morphology, biology, distribution, and toxic properties. Also includes illustrations of the most common plant characteristics. Glossary. Softcover. 512 pages.

Weeds of the South	3 lbs.	**59987**	**$40.95**



Forest Plants of the Southeast and Their Wildlife Uses

4554

Revised Edition. By James H. Miller and Karl V. Miller. Photography by Ted Bodner. The University of Georgia Press. This guide to common and unique plants found in forests of the Southeast thoroughly covers 330 species of forbs (herbaceous plants), grasses, vines and shrubs, with a special emphasis on the plants' role in the wildlife sustenance. Other features include descriptions of native and nonnative (exotic or invasive) plants; 650 color photos, map of physiographic provinces; 56 simple black and white drawings of flower parts, flower types, and inflorescences, leaf arrangements, leaf divisions, shapes and margins, and parts of a grass plant. Glossary. Index. Softcover. 464 Pages.

Forest Plants of the Southeast and Their Wildlife Uses	2 lbs.	**35889**	**$28.95**

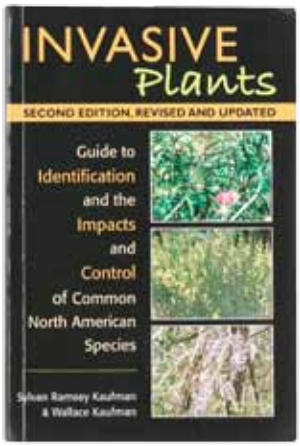
Fandex™ Family Field Guides

6765

Trees

A fun, easy method of tree identification for over forty North American Trees! Each die-cut card has four visual keys to assist in identification - tree leaf, bark pattern, distinguishing flower, seed, or nut, and a photograph of the full tree. Includes descriptions of each tree's height, shape, and habitat.

Fandex Family Field Guide: Trees	11 oz.	**94726**	**$10.95**
	25+		**$9.50**



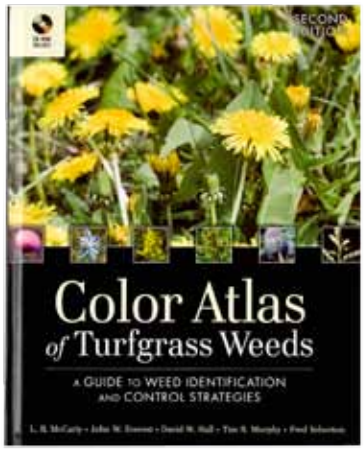
Invasive Plants

8295

Guide to Identification and the impacts and control of common North American species.

Written by Sylvan Ramsey Kaufman and Wallace Kaufman. Second Edition. Stackpole Books, 2012. An easy-to-use, wide-ranging guide to invasive plants in North America. Features full-color photos and descriptions of some 200 alien species - both terrestrial and aquatic - that are in some cases changing the landscape to an almost unimaginable degree. Accompanying text describes the plant's environmental and economic impacts as well as management techniques used to control it. Also includes an explanation of what an invasive is and a step-by-step identification key. 250 Color photos. 518 Pages. Paperback.

Invasive Plants	2 lbs.	**59958**	**$39.95**



Color Atlas of Turfgrass Weeds

8557

By L. B. McCarty, John W. Everest, David W. Hall, Tim R. Murphy, and Fred Yelverton. Second Edition. John Wiley & Sons, Inc., 2008. Included are weed profiles and high-quality, full-color photographs featuring individual weeds in habit, the seedhead or flower, and what the weed looks like when dormant. An accompanying CD contains digital versions of every photograph in the book. This valuable guide provides help in pinpointing the causes of weed infestation, includes effective control strategies for hundreds of weeds, offers in-depth information on herbicide effectiveness, and features a list of both the common and trade names of herbicides. Hardcover. 432 Pages.

Color Atlas of Turfgrass Weeds	2 lbs.	**59994**	**$145.75**

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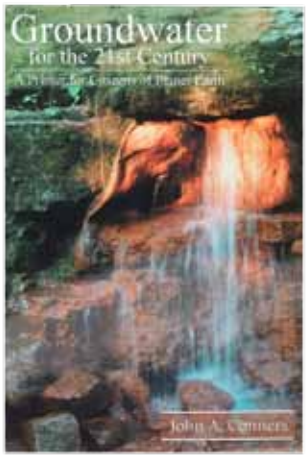
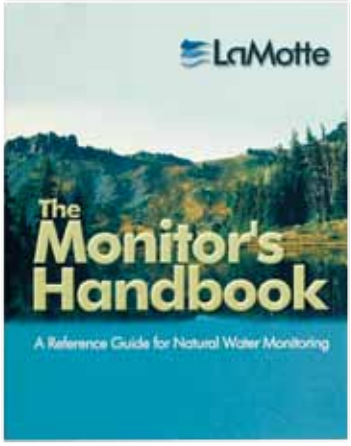


New! Groundwater for the 21st Century
4864

By John A. Conners. The McDonald & Woodward Publishing Company, 2013. Providing a comprehensive overview of groundwater science, this book includes information on the hydrologic cycle, surface water, vadose water, phreatic water, wells, aquifers, hydrogeologic regions, groundwater chemistry, groundwater pollution, and applied hydrogeology. Includes 280 diagrams, maps, photographs, and tables. Softcover. 624 Pages.

Groundwater for the 21st Century	2 lbs.	**76659**	**$39.95**

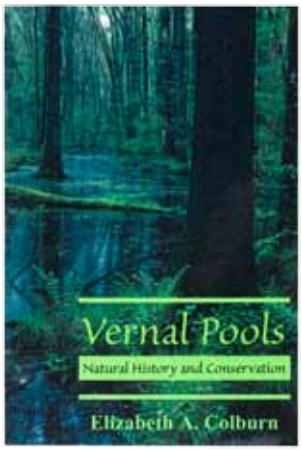


LaMotte® Monitor's Handbook
3339

Introduces the issues of monitoring streams, rivers, lakes, and estuaries.

Written by the staff of the LaMotte Company. It includes physical, biological, and chemical factors of water quality and the analytical procedures for their measurement. It also describes the basics of waterway surveys, program planning, data analysis, and reporting. 63 Pages.

LaMotte Monitor's Handbook	8 oz.	**76923**	**$17.25**



Vernal Pools: Natural History and Conservation
3842

By Elizabeth A. Colburn. The McDonald & Woodward Publishing Company, 2004. Information on the natural history, ecology, and conservation of the seasonally wet pools which occur throughout the formerly glaciated region of eastern North America. Includes an exploration of the microscopic life forms associated with vernal pools, the ecological processes and patterns of pool communities over time, and the research and conservation needs in the continuing effort to understand and protect vernal pools. Appendix identifying all animals reported from vernal pools, a glossary of technical terms, and bibliography. Softcover. 426 pages.

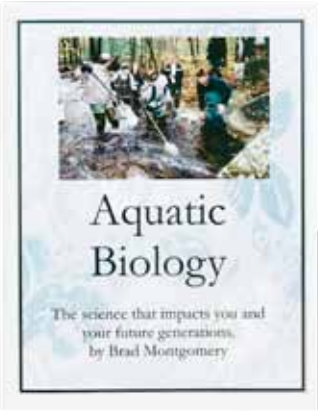
Vernal Pools: Natural History and Conservation	1 lb.	**76595**	**$34.95**

A Guide to Common Freshwater Invertebrates of North America
2704

Written by J. Reese Voshell, Jr. with illustrations by Amy Bartlett Wright. 2002. The McDonald & Woodward Publishing Company. Substantive information in easy-to-understand, nontechnical language for many groups of invertebrates commonly found in the streams, lakes, ponds, and other freshwater environments of North America. Softcover. 442 Pages.

A Guide to Common Freshwater Invertebrates of North America	2 lbs.	**76591**	**$38.95**

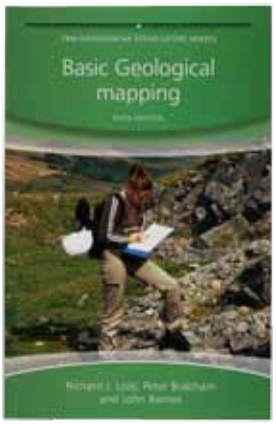
▲ Non-returnable if opened



Aquatic Biology
4370

By Brad Montgomery. An excellent resource for classroom and field use in aquatic biology studies, this book emphasizes scientific principles, analysis, and laboratory and field investigation. Students will gain a new understanding of the interrelationships of the natural world in the context of aquatic biology. By identifying and analyzing both man-made and natural environmental problems, students can evaluate the risks associated with these problems and uncover solutions for solving or even preventing them. Paperback. 58 Pages.

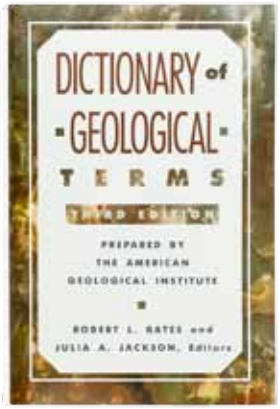
Aquatic Biology	10 oz.	**76860**	**$25.00**
Teacher's Resource CD	3 oz. ▲	**76861**	**$50.00**



Basic Geological Mapping
3713

By John W. Barnes with Richard J. Lisle. Fifth Edition. John Wiley & Sons. 2011. This pocket-sized reference guide includes information on the latest developments and techniques involving GPS and computerized methods, material on the use of aerial photographs in mapping, aspects of field safety, and a comprehensive checklist of useful equipment. Also included are chapters on preparing cross-sections, drafting and presenting "fair copy" maps, drawing geological diagrams for use in reports, and presentation of final reports. Softcover. 230 Pages.

Basic Geological Mapping	8 oz.	**59896**	**$52.75**



Dictionary of Geological Terms
3198

Revised and updated under the direction of the American Geological Institute.

Edited by Robert Bates and Julia Jackson. Third Edition. Doubleday Books. This edition includes over 1,000 new terms, plus accurate definitions without technical jargon, many word origins, hyphenation and pronunciation guide, commonly used abbreviations, and a geologic time and life chart. The definitions are drawn largely from the authoritative 36,000 term Glossary of Geology. Softcover. 517 Pages.

Dictionary of Geological Terms	1 lb.	**59895**	**$18.95**

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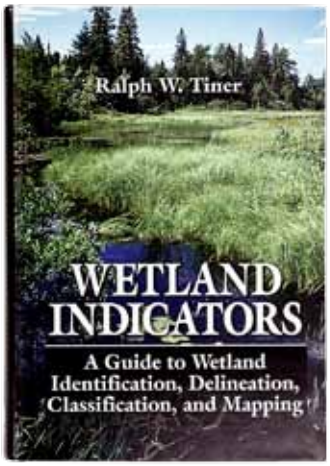
Wetland Indicators: A Guide to Wetland Identification, Delineation, Classification, and Mapping
7024

Ralph W. Tiner. 1999. Lewis Publishers. A tool in understanding the current concept of wetlands and methods for identifying, describing, classifying, and delineating wetlands. Focuses on plants, soils, and other signs of wetland hydrology in the soil or on the surface of wetlands. Provides insight into the development and significance of hydrophytic vegetation, hydric soils, and other factors. Hardcover. 424 Pages.

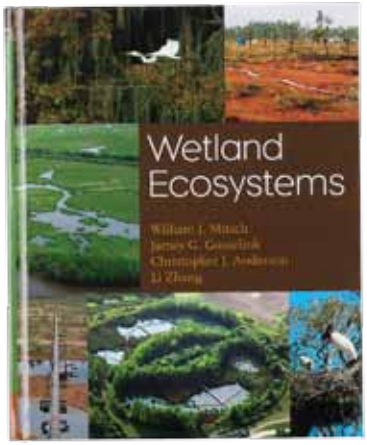
Wetland Indicators: A Guide to Wetland Identification, Delineation, Classification, and Mapping
2 lbs. **59961** **$130.75**

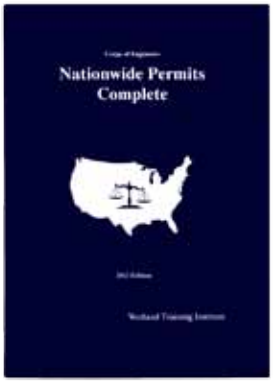


Wetland Ecosystems
7199

By William J. Mitsch, James G. Gosselink, Li Zhang, and Christopher J. Anderson. John Wiley & Sons, Inc., 2009. Provides an introduction to ecosystems, wetland ecosystems, and systems ecology and modeling. Examines the major types of wetlands found throughout the world, reviews fundamental approaches to studying wetlands, and provides a detailed description of ecosystem services provided by wetlands. Illustrations demonstrate how different biological communities and the abiotic environment in wetland ecosystems interact and function. Hardcover. 304 Pages.

Wetland Ecosystems
2 lbs. **59962** **$85.00**



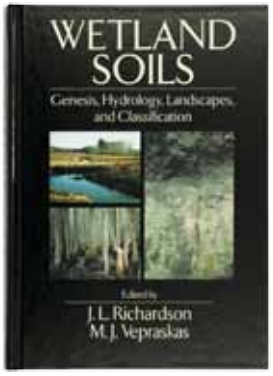


Nationwide Permits Complete for Wetlands
2343

A must-have for anyone working in the Section 10 and Section 404 regulatory program!

By Robert J. Pierce, Ph.D., David E. Dearing, Esq., and Sam Collinson. A single, organized source for all the documents required to move through the nationwide permit process. This volume should remain relevant for until the permits expire in 2017.

Nationwide Permits Complete for Wetlands
1 lb. **59870** **$45.00**

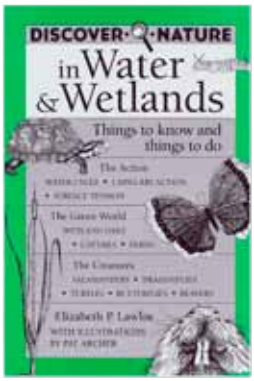


Wetland Soils: Genesis, Hydrology, Landscape, and Classification
2162

Devoted solely to the subject of hydric soils and their landscapes!

Edited by J.L. Richardson and M.J. Vepraskas. CRC Press LLC, 2001. With contributions from soil scientists who have extensive field experience, this book focuses on the soil morphology of the wet soils that cover most wetlands from the subtropics northward. Hardcover. 417 Pages.

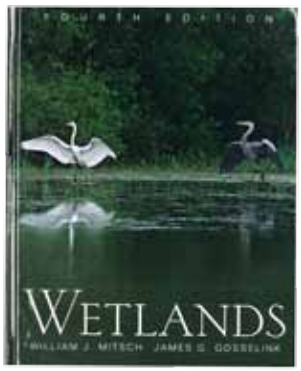
Wetland Soils: Genesis, Hydrology, Landscape, and Classification
2 lbs. **59934** **$170.75**



Discover Nature in Water & Wetlands
7979

By Elizabeth P. Lawlor. Stackpole Books, 2000. Highlights essential information about the diverse ecosystems surrounding ponds, swamps, and other watery places and also provides activities to help you explore these fascinating areas. Discover the properties, processes, and phases of water as well as the plant and animal life associated with water. 222 Pages. Softcover.

Discover Nature in Water & Wetlands
12 oz. **61330** **$17.95**



Wetlands Book
2512

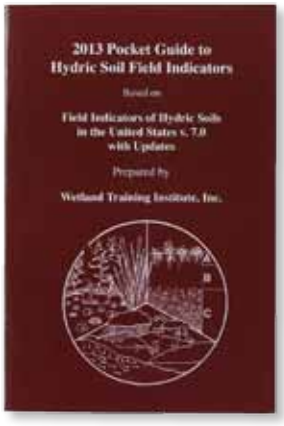
Fourth Edition. By William J. Mitsch and James G. Gosselink. John Wiley & Sons, Inc., 2007. This book is referred to as the "wetlands bible!" Twenty-one chapters. Appendices, Glossary, Reference and Index are also included. Hardcover. 600 Pages.

Wetlands Book
4 lbs. **59935** **$125.00**

2013 Pocket Guide to Hydric Soil Field Indicators
8315

Edited by Robert J. Pierce. Wetland Training Institute, Inc., 2013. Version 7.0 of the NRCS Field Indicators of Hydric Soils in the US. All of the information of the original NRCS publication in a 6-3/4″ x 4″ size with plastic laminated cover. New this edition: dichotomous soil indicator keys correlated to the Corps of Engineers Regional Supplements for Wetland Delineation. Paperback. 160+ Pages.

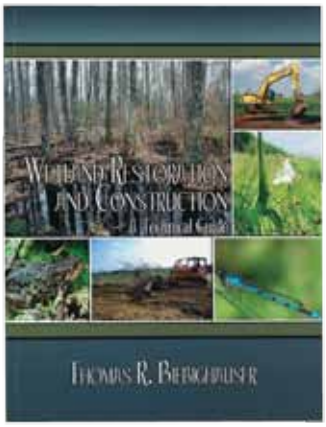
Pocket Guide to Hydric Soil Field Indicators
6 oz. **59973** **$50.00**



New! Wetland Restoration and Construction: A Technical Guide
4841

By Thomas R. Biebighauser. The Upper Susquehanna Coalition, 2011. Reveals practices used to restore over 1,400 wetlands in 18 states and two Canadian provinces. Over 590 detailed drawings and photographs illustrate highly effective techniques for restoring surface and groundwater wetlands. Paperback. 186 Pages.

Wetland Restoration and Construction: A Technical Guide
2 lbs. **59963** **$22.95**



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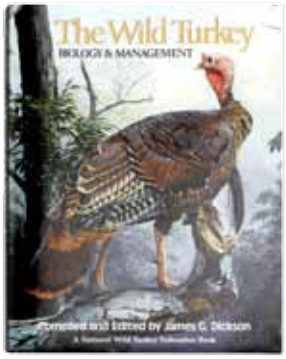
Wildlife Management Reference Books



The Wild Turkey
5180

The standard reference for every subspecies!

Edited by James G. Dickson. Stackpole Books. This book covers physical characteristics and behavior; habitat use by season, sex and age; historical and seasonal ranges and habitat types; nesting ecology; and restoration and management. Features 400 black and white photos, plus a 16-page section of 40 color photos. 480 Pages. Hardcover.

The Wild Turkey 4 lbs.	**35851**	**$85.00**

Waterfowl Identification: The LeMaster Method
5176

By Richard LeMaster. Stackpole Books, 1986. Based on the LeMaster method of waterfowl identification which addresses the size and shape of the bill and the shape of the species in flight, this guide features full-color illustrations of the top and side views of the bills of 40 different waterfowl species and four levels of flight for each. Feather patterns and colors on the wings, shapes and colors of the feet, and differences between males and females are illustrated as well. 4-1/2″ x 7-1/4″ x 1/4″. Softcover. 76 Pages.

Waterfowl Identification: The LeMaster Method 4 oz.	**59820**	**$12.95**

Field Manual of Wildlife Diseases in the Southeastern United States
5185

In-depth manual with color illustrations to aid in the identification of common wildlife diseases and parasites. By William R. Davidson, Victor F. Nettles. Third Edition. 448 Pages. Includes the following species: White-tailed deer, wild swine, black bear, raccoon, striped skunk, red fox, gray fox, coyote, bobcat, opossum, mink, river otter, muskrat, beaver, cottontail rabbit, gray squirrel, woodchuck, armadillo, wild turkey, ruffed grouse, bobwhite quail, mourning dove, and waterfowl. Weatherproof, softcover.

Field Manual of Wildlife Diseases in the Southeastern United States 1 lb.	**35845**	**$45.00**

Wildlife Forensic Manual
5182

Printed by the Association of Midwest Fish and Game Law Enforcement Officers. Fourth Edition, 2012. Edited by William J. Adrian, Wildlife Researcher, Colorado Division of Wildlife. Details methods used to establish the time of death (TOD), sex, and age of a variety of wild game such as rabbits, waterfowl, and deer. Also procedures for collecting and submitting evidence and samples to forensic labs. Includes laminated English/metric ruler with pheasant sexing gauge printed on back. Hard plastic cover with ring binders. 5″ x 7″ x 1″. 254 Pages.

Wildlife Forensic Manual 13 oz.	**35854**	**$58.25**

Mammal Tracks & Sign: A Guide to North American Species
7981

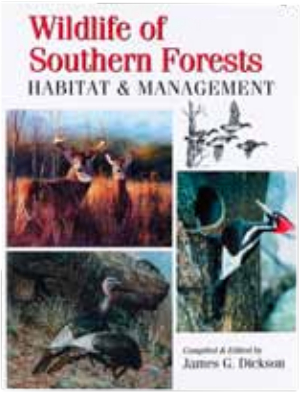
By Mark Elbroch. Stackpole Books, 2003. The most thorough treatment of the subject ever published, this guide is a must-have for both beginning and professional trackers and wildlife enthusiasts! Discover how to find, identify, measure, and interpret the clues that North American mammals leave behind. This guide includes detailed track and trail information, range maps, and over 1,000 full-color photographs showing feeding signs, scat, tunnels, burrows, bedding areas, and remains of mammals. Also included is a section of 104 life-size track illustrations for handy field reference. 792 Pages. Softcover.

Mammal Tracks & Sign: A Guide to North American Species 3 lbs.	**61332**	**$46.95**

The Wildlife Techniques Manual, Volumes 1 & 2
2803

Edited by Nova J. Silvy. Seventh Edition. The Johns Hopkins University Press, 2012. An outstanding resource on wildlife biology, conservation, and management, this comprehensive two-volume set provides detailed information on methods used in the field and laboratory. Volume 1 focuses on research techniques, and Volume 2 covers management methodologies. Topics include: experimental design, wildlife health and disease, capture techniques, population estimation, telemetry, vegetation analysis, conservation genetics, wildlife damage management, urban wildlife management, and habitat conservation planning. 1,136 pages. Hardcover.

The Wildlife Techniques Manual, Volumes 1 & 2 8 lbs.	**35887**	**$134.95**



Wildlife of Southern Forests Habitat and Management
2250

The most comprehensive manual on Southern Forest habitat and management techniques!

Compiled and edited by James G. Dickson. Hancock House Publishers, 2001. Traces the history of southern forests and associated wildlife, details the biology and habitat requirements of species and communities and offers practical guidelines for habitat management on a broad scale. Great for helping land managers assess land suitability for various species and communities, determine how different land and forestry management practices affect wildlife, and actively manage for target species and communities. Features 250 color photos and 156 sketches, graphs, charts and maps. 8.5″ x 11″. 480 Pages. Softcover.

Wildlife of Southern Forests Habitat and Management 3 lbs.	**35898**	**$60.00**

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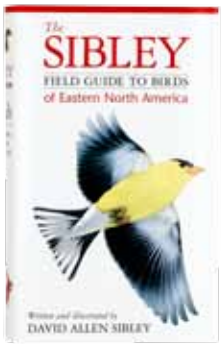
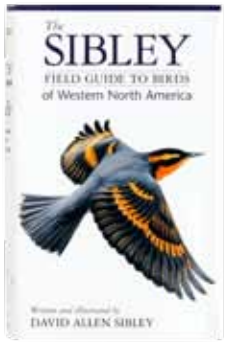




Sibley Field Guides to Birds of North America

2669

Written and illustrated by David Allen Sibley. Alfred A. Knopf, Inc., 2003. These guides are an indispensable resource for all birders seeking an authoritative and portable guide to the birds of North America. Compact and comprehensive, each guide features hundreds of bird species and thousands of illustrations. Each entry contains new text concerning frequency, nesting, behavior, food and feeding, voice description, and key identification features.

Sibley Field Guide to Birds of Eastern North America

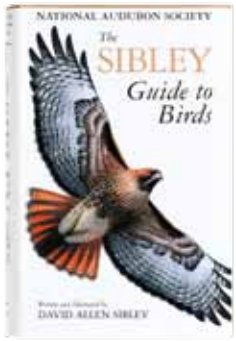
Features 650 bird species plus regional populations found east of the Rocky Mountains with more than 4,200 accurate illustrations and descriptive text pointing out the most important field marks. 431 Pages. Softcover.

Birds of Eastern North America			
1 lb.		**61317**	**$17.95**

Sibley Field Guide to Birds of Western North America

Features 703 bird species plus regional populations found west of the Rocky Mountains with more than 4,600 accurate illustrations and descriptive text pointing out the most important field marks. 471 Pages. Softcover.

Birds of Western North America			
1 lb.		**61318**	**$17.95**



The Sibley Guide to Birds

4068

Written and illustrated by David Allen Sibley. Alfred A. Knopf, Inc., 2000. Contains more than 6,600 beautifully detailed illustrations. Nearly every species is shown in flight and measurements are given for length, wingspan, and weight for every species. Other features include complete voice descriptions, an introductory page for each family or group of related families, clear and concise labels with pointers for identifying field marks, and birds are illustrated in similar poses to make comparisons between species quick and easy. 545 Pages. Softcover.

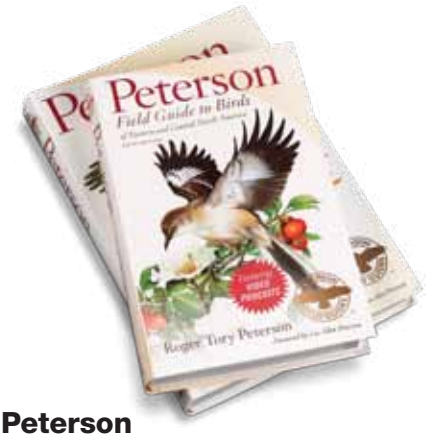
The Sibley Guide to Birds			
3 lbs.		**61315**	**$38.25**

Bird Feathers: A Guide to North American Species

7977

By S. David Scott and Casey McFarland. Stackpole Books, 2010. With this richly illustrated guide, birders can use feather type, shape, and color to quickly determine which bird species an individual feather came from. Range maps, wing types, feather measurements, and photos of representative feathers are included for 379 North American bird species. Introductory chapters provide an overview of avian physiology, feather types, and the dynamics of flight. 368 Pages. Softcover.

Bird Feathers: A Guide to North American Species			
2 lbs.		**61358**	**$34.95**



Peterson Field Guides

5191

Explore the wonders of nature!

Designed by Roger Tory Peterson, these informative field guides are invaluable resource tools. Each guide features full-color illustrations and drawings, and the unique Peterson Identification System. Sponsored by the National Audubon Society, the National Wildlife Federation, and the Roger Tory Peterson Institute. Softcover. 7-1/8″L x 4-1/2″W.

Reptiles and Amphibians	2 lbs.	**59848**	**$21.95**
Western Reptiles & Amphibians	2 lbs.	**59926**	**$21.95**
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Birds of North America	3 lbs.	**59928**	**$21.95**

The National Audubon Society Field Guides

5189

For easy, accurate identification!

Full-color, National Geographic-quality photographs provide unsurpassed clarity and ensure virtually fool-proof identification of every specimen. Guides also include easy-to-use identification keys, detailed glossaries, and interesting facts about the environment and location of featured birds, buds, or bugs. Wrapped in a durable vinyl cover. 7-1/2″L x 4″W x 1″H.

Eastern Birds	1 lb.	**61301**	**$19.95**
Western Birds	1 lb.	**61302**	**$19.95**
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Western Trees	1 lb.	**61310**	**$19.95**
Weather	1 lb.	**61311**	**$19.95**
Butterflies	1 lb.	**61312**	**$19.95**
Eastern Wildflowers	1 lb.	**61313**	**$19.95**

Fieldfare® Field Guide Cover with Notepad

2247

Perfect for notetaking in the field!

Protects your field guide and also features a notepad and pen holder for making notes. The hook and loop tab closure provides quick access, and a wide elastic hand strap allows you to easily hold the field guide open with one hand. Features an adjustable, removable shoulder strap and a storage pocket for your map, checklist, etc. **Dimensions:** 6″ x 9.5″ x 1″.

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Cover with Notepad		3+	**$23.50**

Bat Box, Blue Bird, and Martin Houses
pages 386 and 387

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Engineering and Surveying Reference Books

Construction Surveying and Layout
8422

By Wesley G. Crawford. Third Edition. Creative Construction Publishing, Inc., 2003. An excellent reference source for surveying field measurement and layout processes, this book includes over 1,400 illustrations of field and office activities presented in a step-by-step, easy-to-read format. The book contains a wealth of practical material to guide the reader through common surveying measurement and calculation activities. Hardcover.

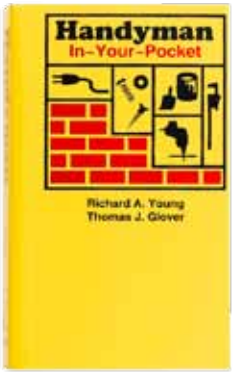
Construction Surveying and Layout		
4 lbs.	**59815**	**$69.95**

Pocket Ref
5806

Fourth Edition

By Thomas J. Glover. Fourth Edition. Chapters include Air; Automotive; Carpentry and Construction; Chemistry and Physics; Computers and Printers; Electrical; First Aid; General Information; Geology; Glues, Solvents, Paints and Finishes; Hardware; Math; Mining and Milling; Money and Currency; Physical Constants; Plumbing and Pipe; Rope and Chain; Steel and Metals; Surveying and Mapping; Tools; Water; Weights of Materials; Welding; 3,200 Conversion Factors! Softcover. 864 Pages.

Pocket Ref		
7 oz.	**59945**	**$12.95**



Handyman In-Your-Pocket Reference Book
4104

Provides invaluable reference on carpentry, construction, and more!

By Richard A. Young and Thomas J. Glover. Includes information on carpentry and construction, electrical, math, glues and adhesives, nails, staples, spikes, paints, finishes, solvents, rope, chain, wire rope, sheet metal plate, water, air, tools, welding, weights and properties of materials and much, much more. Softcover. 768 Pages.

Handyman In-Your-Pocket Reference Book		
7 oz.	**59915**	**$12.95**
3+		**$10.95**

Measure for Measure
5665

By Richard A. Young and Thomas J. Glover. Contains over 39,000 conversions for over 5,100 different units, thousands of foreign and ancient conversion factors, and values listed in both standard and scientific notation. Chapters are included on Base Units, SI (System International), equivalent units, formulas, physical constants and definitions. 4″ x 6″. 864 Pages. Lexotone® cover.

Measure for Measure		
12 oz.	**59918**	**$14.95**

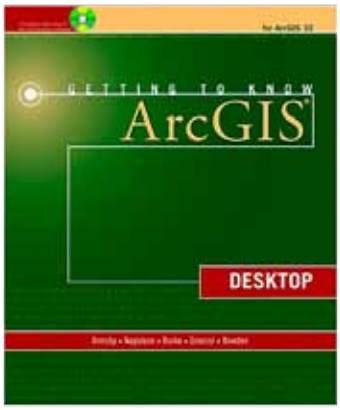
Educaching™ GPS-Based Curriculum for Teachers
4799

Explore the exciting world of geocaching!

This teacher-led, student-driven curriculum encourages hands-on learning through the use of geocaching lessons! The Educaching teacher's manual includes a background section of basic information about GPS technology, the concept of Educaching, and tips for getting started. Twenty multidisciplinary STEM (Science Technology Engineering Mathematics) lesson plans are grouped according to the level of difficulty (beginner, intermediate, and advanced). The lesson plans align with national teaching standards and meet many Common Core math standards for grades 4 through 8. Student assessment sheets are included for each lesson. Information is also included on creative ways for your students to use Educaching beyond the classroom.

Educaching GPS Curriculum Book – Three-ring binder. 116 Pages. CD with field sheets and teacher templates also included. ▲	2 lbs.	**36915**	**$31.95**
Educaching GPS Curriculum CD ▲	2 oz.	**36916**	**$29.95**

▲ **Note:** Non-returnable if opened or seal is broken.



Getting to Know ArcGIS® Desktop: Basics of ArcView®, ArcEditor™, and ArcInfo™
2712

Second Edition, Updated for ArcGIS 10. By Tim Ormsby, Eileen Napoleon, Robert Burke, Carolyn Groessl and Laura Bowden. ESRI Press, 2010. Introduces principles of GIS as it teaches the mechanics of using ESRI's leading technology. Key concepts are combined with detailed illustrations and step-by-step exercises to acquaint readers with the building blocks of ArcGIS Desktop including ArcMap™ for displaying and querying maps, ArcCatalog™ for organizing geographic data, and ModelBuilder™ for diagramming and processing solutions to complex spatial analysis problems. Includes a data CD and 180-day trial of ArcGIS Desktop 10. Paperback. 604 Pages.

Getting to Know ARCGIS Desktop	4 lbs.	**60013**	**$79.95**

GIS Tutorial Workbooks
page 41

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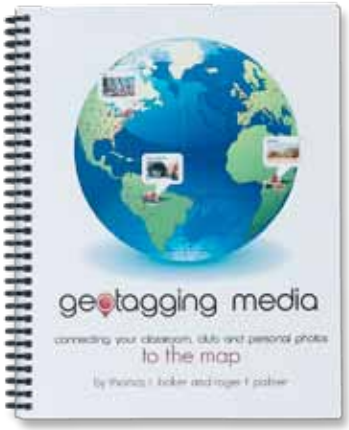
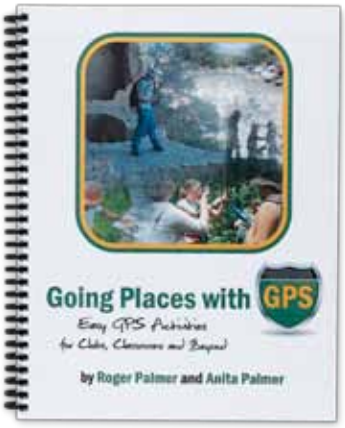


Geotagging Media
2974

Connecting Your Classroom, Club and Personal Photos to the Map

Written by Thomas R. Baker and Roger T. Palmer. Carte Diem Press, 2012. The perfect compliment to your field work, school trip or outdoor curriculum! Learn about the different methods, devices, and software used in geotagging photos, plus curricular ideas and activities are also discussed for use in the classroom. Beyond geotagging photos, there is additional information on: geotagging text, videos and audio; digital globes; and geographic information systems (GIS). Softcover. 65 Pages.

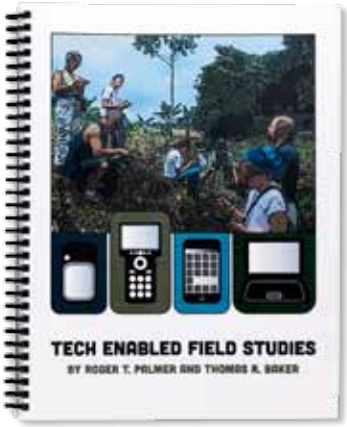
Geotagging Media	9 oz.	**36954**	**$24.95**



Going Places with GPS
7277

By Roger and Anita Palmer. This book is intended to introduce the reader to many fun and exciting uses of GPS both in the classroom as well as out. Some of the helpful chapters include Maneuvering Your GPS, Finding Points, Finding Lines of Latitude and Longitude on the Ground, Games and Activities, Orienteering for GPS, Geocaching, Reading a Topo Map, GPS as a Tool, GPS Data Collection in the Field, GPS Physics Calculations, etc. Softcover.

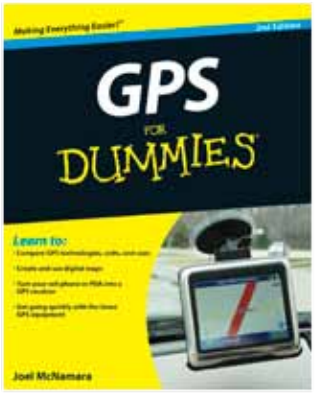
Going Places with GPS	10 oz.	**60005**	**$25.00**



New! Tech-Enabled Field Studies
4859

By Roger T. Palmer and Thomas R. Baker. Carte Diem Press, 2013. An excellent guide to outside or "in the field" research techniques, this book focuses especially on tech-enabled methods, tools, and analysis. Includes information on field study design; field instruments; use of smartphones, Google Docs, and ArcGIS Online; geotagging images; mapping and data analysis in ArcGIS for Desktop; and project ideas. Softcover. 120 Pages.

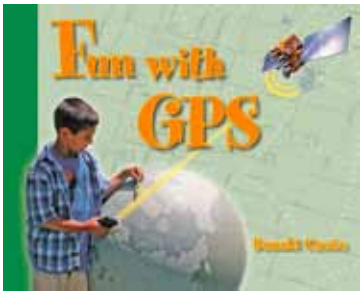
Tech-Enabled Field Studies	14 oz.	**60074**	**$29.95**



GPS for Dummies
8025

By Joel McNamara. John Wiley and Sons, Inc., 2000-2006. Second Edition. This book explains basic GPS principles and concepts including waypoints, routes, tracks and coordinate systems. Other topics covered include how to do digital mapping on your computer; the scoop on geocaching; recommended features for GPS receivers to be used in various types of activities, choosing features for a GPS receiver; systems for traveling on the main roads and systems for exploring off the beaten path; using GPS with a PDA; computer requirements for different mapping choices; topographic map software; using web-hosted mapping services; and incorporating GPS receivers into outdoor workouts. Paperback. 384 Pages.

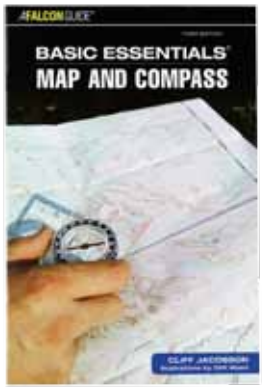
GPS for Dummies 1 lb.		**59871**	**$26.95**



Fun with GPS
4366

By Donald Cooke. ESRI Press, 2005. This informative guide includes dozens of illustrated examples showing the various uses for a GPS beyond simply calculating a location. Each example features maps and photographs to encourage users to track and map their activities. The guide also includes information about how to incorporate GPS mapping technology in the classroom to reinforce science, math, and geography curricula as well as providing the basis for project-based learning. Paperback. 136 Pages.

Fun with GPS 1 lb.		**60031**	**$19.95**



The Basic Essentials of Map & Compass
1267

Essential map and compass information.

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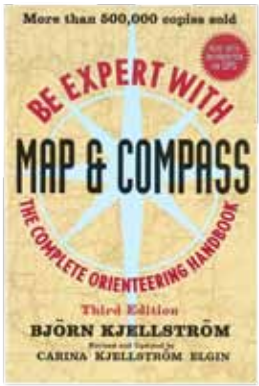

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Our highly trained and experienced Technical Support staff is here to help you make well-informed purchase decisions and to answer questions you have regarding a product's application, operation, or specifications. Contact our Technical Support staff at 1-800-430-5566 or via e-mail at **tech@forestry-suppliers.com**.

Special Order Items

We carry thousands of top quality tools, instruments, and supplies for today's outdoor professionals. Still, there are special situations when you may need a specific item not listed in our catalog. When those situations arise, give us a call. We have access to manufacturers from around the world and chances are we can special order the exact item you need. For more information, call 1-800-752-8460 and ask a customer service associate about special ordering products and supplies.

Repairs

When we say we're here before and after the sale, we mean it. Take our in-house Repair Department for example. They know how to quickly repair and calibrate many of the products we sell – from Suunto® compasses and clinometers to Solo® backpack sprayers. The next time your instruments need servicing, call 1-800-752-8460. We're here to help you.

Replacement Parts

We know some instruments require simple repairs and routine maintenance which you can easily perform yourself. Throughout our catalog and our website, you'll find a number of replacement parts and supplies for many easy-to-maintain items such as backpack sprayers, paint guns, drip torches, and logger's tapes. That way, you can make the repair yourself, saving both time and money.

Duplicate Catalogs

To minimize waste, if you are receiving duplicate catalogs, please call our Catalog Department at 1-800-360-7788, or send us the mailing labels (with your Customer Number) located on the back cover of your duplicate catalogs, or e-mail us at **list@forestry-suppliers.com**.

Peco Sales Wholesale Division.

Peco Sales is the wholesale division of Forestry Suppliers and is a resource for resellers of professional gear and equipment used in dozens of markets every day. Peco Sales serves authorized dealers only with discounted pricing, generous freight terms and personal service. To learn more, call 1-800-257-7652 or visit **www.pecosales.com**.

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Terms & Shipping Information

Shipping Information

Shipping Methods

United Parcel Service, USPS, Motor Freight and Air Freight are available for shipment of your orders.

It is our policy to ship by the most economical carrier. Some items (such as flammable products) have certain rules which will determine which carrier can be used. If you specify the shipment method, we will do our best to send it by the carrier you request.

O F

Oversized and Motor Freight Items

Limitations per package for UPS and USPS include weight limitations of 150 lbs. (UPS) or 70 lbs. (USPS) with size limitations of 130 inches (UPS) or 108 inches (USPS).

UPS Oversize (O) charges for ground and air shipments are based on dimensional weight.

USPS The Postal Service limits the size, weight, and content of parcels to 108 inches (width + length + girth) and up to 70 lbs. per package.

Orders that exceed the limitations stated must be shipped via Motor Freight (F). Your charges are based on distance, weight, and type of merchandise.

Forestry Suppliers will select the appropriate carrier for your area, or you may specify a carrier. For complete details, call 1-800-752-8460.

Shipping Charges

As the customer, you are responsible for shipping charges. Shipping overpayments are promptly refunded.

Packing List

When you receive your order, inside you will find a Packing List showing the items that have been shipped. Please keep this list for your records. On the back of the Packing List you'll find instructions on what to do in case there is a problem with your order.

Damaged Shipments

Before you sign for any package, carefully inspect the package and its contents for damage. In the event of a problem, refer to the instructions listed on the back of the packing slip. List any damage on the carrier's receipt and follow the carrier's instructions. Report any damage to us by writing, e-mailing or calling the Customer Service Department immediately at 1-800-752-8460 or cs@forestry-suppliers.com.

Save the shipping box and packing material! Be sure to include your Packing List with the order number. Also include details regarding the damage. Together, we will work out the details on a reshipment of your order.

H

Hazmat Charges and Returns

Certain items require a UPS surcharge of $28.50 per package for shipping by ground or $40.00 per package for shipping by air. These items are identified throughout the catalog with the H (ground) or A (air) symbol.

Please note that the vast majority of Hazmat items fall under carrier policies that prohibit return shipment. For details about your particular Hazmat return and for specific instructions, contact our Customer Service Department at 1-800-752-8460 or cs@forestry-suppliers.com.

Tracking Your Order

If you need to track your order, we'll be glad to help. Simply call our Customer Service Department staff at 1-800-752-8460. They can help track down packages sent separately or items you may not have received at all. You can also track your internet orders directly from www.forestry-suppliers.com.

Incorrect Shipments

If there has been an error in your shipment, please contact our Customer Service Department at 1-800-752-8460 for instructions. Please package returned items securely. Forestry Suppliers will pay for shipping charges on returned items due to our error.

Terms & Conditions

Private Mailing Lists

At Forestry Suppliers, Inc., we respect your privacy. That's why we do **NOT** publish, sell, lease, or allow any use of our mailing list by outside sources. Your name, address and e-mail address are always safe with us!

Prices

Prices in this catalog are current at time of print. Forestry Suppliers, Inc., reserves the right to discontinue items and to change prices without notice. For current prices on any item, please call or write our Sales Staff or visit our web site at www.forestry-suppliers.com.

If a price change does occur, your invoice will be adjusted accordingly. If you require a price change notice prior to shipment, please specify this requirement on your order form. All orders are subject to acceptance by Forestry Suppliers, Inc.

Mississippi Sales Tax

Forestry Suppliers, Inc. is required to collect sales tax on all orders shipped to Mississippi addresses. If your order is being shipped to a Mississippi address which is tax exempt, be sure to include the tax exemption number and a copy of the tax exemption certificate.

Address Change

Throughout the year, we send out numerous specialty and sales periodicals to our customers. If your address has changed, make certain you let us know so you receive these informative publications. To update our mailing list, call 1-800-360-7788, e-mail us at list@forestry-suppliers.com, or send us a letter with your former address, new address, and Customer Number.

Errors in Printing

Any errors in this catalog are subject to correction. Changes by the manufacturer are beyond our control. Thank you for understanding.

Local Safety Standards and Regulations

Products sold by Forestry Suppliers, Inc. are designed to meet stated U.S. safety standards and regulations. Because local safety standards and regulations vary significantly, Forestry Suppliers, Inc. cannot guarantee that our products meet all applicable requirements in each locality. The purchaser assumes responsibility for compliance with such safety standards and regulations in those localities in which the products will be shipped, sold, and used.

OSHA Hazardous Substance Information

Safety Data Sheets for many products containing OSHA defined hazardous substances are available on our web site at www.forestry-suppliers.com. If you need further assistance, contact our Sales Department at 1-800-647-5368.

Limited Warranty

Except as described in our guarantee, there are no express warranties or implied warranties including, but not limited to, merchantability and fitness for a particular purpose.

Forestry Suppliers, Inc. shall not be subject to and disclaims: (1) any other obligations or liabilities arising out of breach of contract or of warranty, (2) any obligations whatsoever arising from tort claims (including negligence and strict liability) or arising under other theories of law with respect to products sold or services rendered by Forestry Suppliers, Inc., or any undertakings, acts, or omissions relating thereto, and (3) all consequential, incidental, and contingent damages whatsoever.

Terms

These terms and conditions shall constitute the entire agreement between Forestry Suppliers, Inc., and the purchaser, and shall be governed by and construed according to the laws of the state of Mississippi and the United States of America.

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Forestry, Fire Fighting & Tree Planting

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