

Northwest River Supplies



10th Anniversary Catalog

Spring - Summer

| 9 8 3

INTRODUCTION

DEAR RIVER RUNNER:

Ten years ago, Northwest River Supplies was little more than a gleam in this river-runner's eye and a bright idea on how to develop a truly watertight gear bag. That bright idea was the impetus for the NRS Bills Bag, the best waterproof bag on the river. Since the production of that first Bills Bag, all of us at NRS have dedicated ourselves to one primary goal: providing you, our friends and customers, with top-quality river equipment and related products at reasonable prices.

In the past decade, there has been an explosion of interest in river-running in this country. At NRS, we are proud of the part we have played in the design and development of products that introduced many people to the thrill and satisfaction of river sports. We sincerely hope that NRS, by helping to acquaint others with the beauty and enjoyment to be found on America's rivers, has contributed to the preservation and protection of this priceless natural resource for generations to come.

At NRS we pledge our commitment to the design, development, and distribution of quality river-related products. We're proud of our latest product offerings. We especially like the NRS Otter, a boat we have wanted to bring you for years: durable, inexpensive, and with many of the performance characteristics of more expensive rafts. We are also pleased to bring you a whole new line of wetsuits in 1983, as well as the top-quality, inexpensive NRS Wet Shoe. As with all our products, we kept the rough-and-tumble of river-running in mind, so our Waterline Wetsuits combine sporty good looks with rugged river-bred quality. Another feature of our 1983 catalog is the increased emphasis on pile and polypropylene clothing. Lots of outdoors people have discovered the benefits of these new fabrics, and we feel they are perfectly suited for those who are active on the river.

We'd like to thank all our customers for making Northwest River Supplies' first decade such a good one, and we pledge to keep working to improve our products and provide you with the very best service. If you're ever near Moscow, be sure to stop by our shop and say hello—most of our products are on display, and we always appreciate your advice and suggestions.

See you here, or on the river,

Bill Parks



- Waterproof Bags have always been our specialty. See our complete line of Bills Bags, Stuffs and Tuffs on p 16 & 17.

- We have expanded our selection of clothing for water sports. The Blue Puma Sweatshirt is part of the River Wear section on p 28 & 29.



- The new Waterline Wetsuit is specifically designed for active water sports. Featured on p 30.



New Products
Look for the water symbol from our NRS logo; it indicates new products in our 1983 catalog.

Shipping Now Prepaid

To make ordering easier, we now charge a flat \$2.00 shipping and handling fee for each order. Some large products are shipped motor freight collect. For more details, see "Shipping Information" on the order form.

Shipping Weight

To assist customers who are considering UPS Blue Label air shipment, we are listing the shipping weight (ship wt) of the product on the price line under the product description. In cases where the actual product weight is important, you will find it listed separately in the product description.



TOLL FREE ORDER LINE
800-635-5202

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Photographs by Rick Semple

Cover photograph: Selway River, Idaho



- The new NRS Wetshoe will keep your feet warm, even on those cold April trips. Turn to p 30.

RAFTS

Rafts accommodate all levels of adventure, from the awesome drops of some far-off river to a leisurely fishing drift down a local stream. Rowed, paddled, or motorized, no matter what purpose or level of adventure you seek, there is a raft to suit your needs and desires. Once you have determined the appropriate size, the boat's material and design are the two most important characteristics to consider.

Boat material has two components: coating and fabric. Hypalon, a synthetic rubber coating, is generally acknowledged to provide the best resistance to weathering and abrasion. Next in order of quality is neoprene, and finally rubberized coatings (EPDM, etc.). Generally, the higher the Hypalon or Neoprene content, the less maintenance your boat will require.

Fabric strength can be indicated in two ways, either by fabric weight (ounces per square yard) or thread weight (denier). The strongest tube material commonly used has a thread weight of 840 denier that weighs approximately 5 oz per square yard. It is the fabric strength that makes a material resist tears and punctures.

There are a number of design features that directly affect a boat's performance. For instance, raising the bow increases the dryness of the boat. Raising the stern increases rowing speed and improves maneuverability by shortening the waterline. Cross thwarts provide internal rigidity, seats, and extra air chambers. Currently, the simplest way to construct trouble-free thwarts uses a pair of sewn circles on each end of the thwart: one circle is glued to the main tube. Laced-in thwarts are the most durable in design but are not as effective in boats with lower quality coatings since sand and water can lodge behind the lacing and cause fabric deterioration. Finally, a taut floor is important to let a boat slide freely through the water. However, some looseness and stretch is desirable to keep the floor from being torn easily.

OTTER

At last! An affordable small raft that's built for lasting performance. In designing the NRS Otter, we wanted to produce a fun, responsive craft suitable for many different water conditions, and one that an aspiring boatman on even the most limited budget could afford.

The NRS Otter features an innovative design that maximizes desirable handling characteristics while minimizing construction costs. The parabolic bow chamber increases gradually in diameter from 16½" to 24", giving the NRS Otter the lively handling characteristics for which it was named. In addition, the rounded stern chamber is enlarged by 2" to help prevent swamping from the rear by big waves even when a stern paddler's weight is added. The two inflated cross thwarts provide additional seating, rigidity, and buoyancy, and are formed as separate chambers before gluing into the boat to eliminate those hard-to-fix thwart seam leaks. The two main air chambers are formed at the front and back rather than side to side, because there is greater safety in this method of construction. Finally, all chambers have recessed military-style valves for quick inflation/deflation.

Other features that make a big difference in the NRS Otter's durability and longevity are a reinforced 840 denier nylon fabric floor and a 420 denier nylon fabric tube, protected by a tough rubberized coating that makes the Otter airtight and resistant to abrasion and weathering. The 3/16" polypropylene lifeline is secured by molded-in web reinforcements, and the bowline is secured to a 1¾" D-ring. If price and a taste for quality has kept you from owning a raft before, the Otter is made for you. Shipped prepaid—Parcel Post. **#105 (ship wt 55 lb) \$235.00**

OTTER ACCESSORIES Although the Otter was designed primarily as a paddle boat, if you want to row it, we offer a pair of optional glue-on rubber oarlocks (please see the #152 8-man Udisco on p 7 for a photo of these oarlocks). We recommend using the #199



Otter on Selway River



Otter Motor Mount

6 ft Carlisle Economy Oar with these oarlocks (please see p 10). Also available as an option is a plywood motor mount with all the necessary hardware included (2 horsepower maximum). Need an inexpensive foot pump for the Otter? Try the #223 Economy Foot Pump as described on page 13.

- #1052** Otter Motor Mount (ship wt 4 lb) **\$20.00 set**
- #1053** Otter Rubber Oarlocks (ship wt 4 lb) **\$14.00 pr**
- #199** 6 ft Carlisle Economy Oar (ship wt 25 lb) **\$16.00 ea**
- #223** Economy Foot Pump (ship wt 2½ lb) **\$17.50 ea**

RAFTS

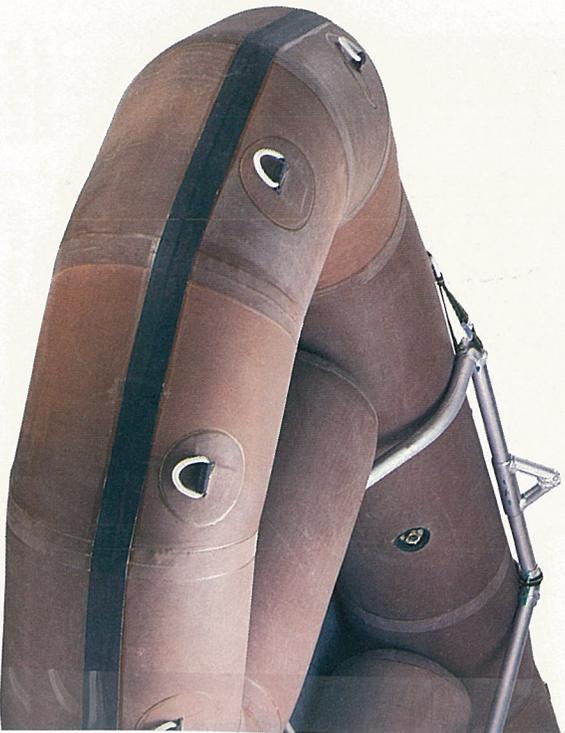
SPRITE AND SCOUT

Why did we choose neoprene coating for our Sprite and Scout? Neoprene has excellent durability and UV-resistance surpassed only by Hypalon. Furthermore, neoprene-coated material is easier to glue than Hypalon-coated material which must be carefully buffed before gluing. Lastly, neoprene is more reasonably priced than Hypalon, so we can bring you quality boats for a very competitive price.

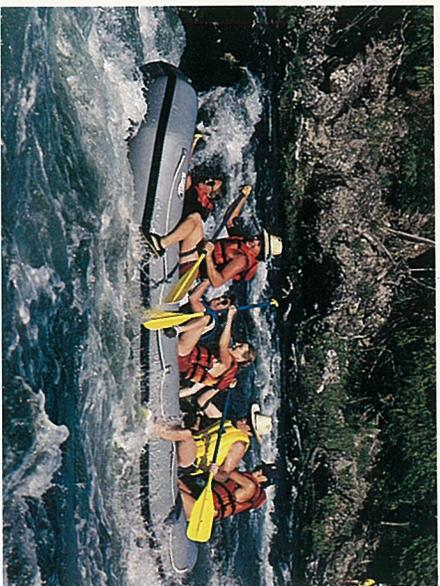
W Scout The Scout is our best buy for the river runner who wants a large raft at an affordable price. The Scout's generous dimensions (15' L by 7' W) and large diameter tubes (20½") give enough capacity for four to six paddlers, or a boatman, rowing frame, and three passengers plus gear. The 10" bow and stern rise shortens the waterline considerably, so the Scout is very maneuverable for a boat of its size. The Scout's 17" glued-in thwarts are constructed like those in the Sprite. The four main air chambers have 1" military-style valves, so inflation and deflation is easy. Comes with a braided polypropylene life line, a 15 ft bow line, and twelve large D-rings. We guarantee the Scout for six months against defects in workmanship and materials. The Scout weighs 90 lbs and is shipped motor freight prepaid. (Quantities are limited.)
#109 (ship wt 100 lb) **\$585.00**

On my last visit to Taiwan, our supplier was using a tough and durable black neoprene material to manufacture military assault boats. This material would be great for river rafts in every respect except color—black absorbs too much heat! I discovered we could get this neoprene material in brown—so here are our proven Sprite and Scout designs in a quality 840 denier, 30 oz brown neoprene.

W Sprite At 12' (L) and 5'10" (W) the Sprite is a terrific paddle boat for four people; with a rowing frame it's a great little boat for two or three people. The 8" bow rise allows the Sprite to ride over big waves, and the 17" tubes give a relatively dry ride. Whether you're paddling or rowing, the ride is exciting, yet stable. The Sprite has four main air chambers and two sewn/glued cross thwarts, all with military-style valves. There are twelve large D-rings for lashing on a frame and all your gear; the Sprite also comes with a braided polypropylene life line and 15 ft bow line. We guarantee the Sprite for six months against defects in workmanship and materials. The Sprite weighs 65 lbs and is shipped motor freight prepaid. (Quantities are limited.)
#107 (ship wt 70 lb) **\$585.00**



SPORT II



Sport II on Selway

Sport Packages If you need a complete whitewater set-up for your new Sport II, one of the following Sport Packages is the best value for your money. Each package includes the Sport II, NRS frame of your choice (see

SPORT II

The Sport II has been accepted all across the United States as perhaps the best and most economical recreational whitewater raft available today. The popularity and success of the Sport II was not an accident—we spent many hours at the drawing board to come up with a medium sized raft design that provided plenty of cargo space without sacrificing stability and maneuverability.

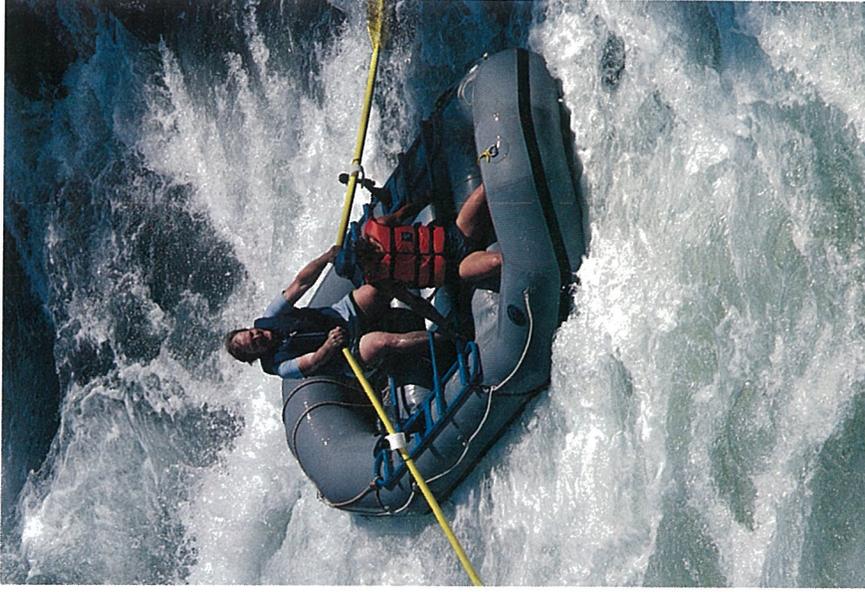
First, we determined the dimensions of the center compartment (45" x 43") which would maximize cargo capacity, load stability, and frame compatibility. Second, given these required dimensions, we selected the length (14'9") and the width (7') to acquire a high degree of maneuverability and stability in big water without deadening the ride. Third, we chose large tubes (20½") to increase the flotation and create a drier ride. Fourth, we turned the bow and stern up 11" to further reduce the incoming spray, shorten the effective waterline, increase quickness in those tight river situations, and provide a smooth ride over rough whitewater. Fifth, we

rounded the bow and stern to increase the cargo carrying capacity.

To implement our design and guarantee the quality control, we turned to Achilles of Japan to produce the Sport II. Achilles uncompromising workmanship and high quality materials, combined with our design, ensure the Sport II's long life and excellent handling characteristics.

For extra durability, the Sport II features a 1260 denier, 58 oz black neoprene floor material. The tubes are built out of high quality nylon calendered on the outside with 80% DuPont Hypalon and on the inside with black neoprene. If you would like a fabric sample, please drop us a line or give us a call. The 45" center compartment has enough room to allow you to set your oar pivots within 10" of the Sport's midpoint whether you choose the Universal, Super, Bighorn, or Expedition Frame. For those of you that prefer to paddle, don't ignore the Sport II. Its quickness and maneuverability make it an ideal big-water paddle boat too.

#100 (ship wt 160 lb) **\$1,495.00**



Above: Sport II on Selway
Left: Sport II with Universal Frame

Sport II Specifications: 14'9" (L) x 7' (W); 20½" diameter main tubes; 15" diameter thwarts; 11" bow and stern rise; 45" (L) x 43" (W) center compartment; six (four main, two thwarts) air chambers with recessed military-style valves; 840 denier, 43 oz 80% Hypalon tube material; 1260 denier, 58 oz neoprene floor material; 14 mounted D-rings, and a lifeline. The Sport II comes with a one-year guarantee against defects in material and workmanship, weighs 140 lbs and is shipped motor freight prepaid.

RAFTS

ACHILLES



Achilles SV-126 on Selway

Achilles combines quality materials with advanced design and meticulous workmanship to produce two impressive lines of river boats: the SV and the RV. Achilles material is an 80% Hypalon-coated nylon fabric that's flexible, airtight, and wear-resistant. Using this fabric, their skilled workers put together each boat with care, using the latest manufacturing technology. Achilles then backs each boat with a full year's guarantee.

Achilles' SV rafts are built primarily for the recreational boater. Their strong, 43 oz tube material saves a significant amount of weight over comparable RV models. SV rafts come in salmon with black trim, and have strong 2" molded D-rings, three to four main air chambers (depending on the boat model), two inflatable sewn/glued-in thwarts, and military-style valves.

The RV Achilles are becoming increasingly popular among private and commercial big water boaters. 840 denier, 43 or 48 oz tube material is coated with 80% Hypalon for long life. 1260 denier, 58 oz floors are wrapped up on the RV models to give extra hull protection. Heavy-duty 2" and 3" stainless steel D-rings are standard, as are laced-in inflatable thwarts and four main air chambers, with military-style valves throughout. All Achilles rafts are shipped motor freight prepaid.

SV-110 For paddlers who really like to dance through the rapids, this boat tops the exhilaration scale. The ultimate in quickness. Carrying capacity is adequate for a weekend.

#110 (ship wt 85 lb)

\$900.00

SV-126 The paddlers' "luxury liner". This 12½ ft boat is light enough that four paddlers can maneuver it with ease, yet large enough to carry a considerable amount of gear. New for '83—a 58 oz, 1260 denier floor!

#111 (ship wt 100 lb)

\$1,100.00

SV-140 A perfect boat for the oarsman who places a premium on maneuverability. This boat will go anywhere, yet it is big enough that you don't have to agonize over space considerations or carrying capacity. Now comes with a 58 oz, 1260 denier floor; constructed with four main air chambers.

#112 (ship wt 135 lb)

\$1,475.00

SV-156 The 15½ ft SV model has the added protection of a wrap-up floor. This feature adds a little weight but is worth it, considering the capacity of this large raft. Four main air chambers and a 58 oz, 1260 denier floor complete the design.

#113 (ship wt 180 lb)

\$1,850.00

RV-130 The perfect size for a weekend trip for two; plenty of room for our Longhorn frame and a cooler.

#115 (ship wt 135 lb)

\$1,500.00

RV-140 Lots of room but not overly large. If you prefer to paddle, try the RV-140. If you'd rather row, we have just the right frame for you. 48 oz tube material with an extra heavy-duty 58 oz wrap-up floor.

#116 (ship wt 170 lb)

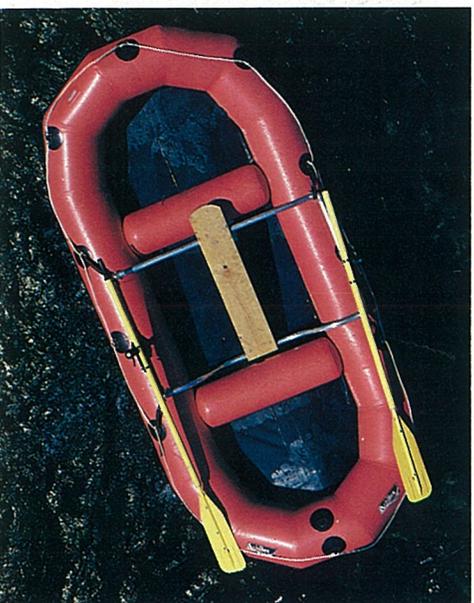
\$1,750.00

RV-160 This is a big heavy-duty raft that just begs to be loaded down. If you want a raft that is durable and has super load capacity, this raft's for you. 48 oz tubes with a 58 oz wrap-up floor.

#117 (ship wt 200 lb)

\$2,250.00

Achilles SV-126



CAMPWAYS



Campways RR-14 on Selway

Campways River Riders Since their introduction over four years ago, the Campways River Riders have enjoyed consistent popularity because of their quality construction and reasonable cost. For 1983, all River Riders are manufactured in a 35 oz, 420 denier 25% Hypalon-coated tube material made by their new "Roto-Press" process to give a more uniform, durable coating with an attractive finish. The River Rider floor material is an 840 denier, 37 oz fabric covered with a 60% neoprene blend. The River Rider 13 and River Rider 14 are manufactured with two main air chambers plus two glued-in inflatable thwarts, all with Campways' nylon military-style valves. The River Rider 13 makes an especially good four or five person paddle raft; it's also a suitable oar boat for two or three people on weekend or day trips. The River Rider 14 is 6" longer and 8" wider than the River Rider 13; this size difference allows you to fit the River Rider 14 with

AVON

Avon has been designing and manufacturing inflatable boats for almost 25 years, and is recognized worldwide for building the top of the line river-running craft. The Avon fabric has a layer of heavy duty nylon fabric sandwiched between two layers of 85+% DuPont Hypalon. This high Hypalon content makes for a very lightweight, yet extremely durable material. Avon has

UDISCO

Traditionally, the Udisco line has been the choice of beginning rafters because of their river-worthy design and reasonable price. Udiscos have raised bows and sterns, military-style valves, four main air chambers, and two inflatable thwarts. The standard Udisco material is a 420 denier nylon fabric coated with EPDM and other rubber compounds. Their Heavy-Duty line has an 840 denier base fabric with a similar coating. New for '83 is the 10 Man Hypalon Deluxe, with 840 denier tube material coated with a Hypalon mixture. Under normal conditions of recreational use, these boats should last several years, or longer with the heavy-duty models. When they start to weather, add a coating such as the GACO neoprene or Hypalon paint. Please note: we ship all Udisco boats motor freight collect.

8-Man Udisco The need for a small three person rowing raft is met very well by the Udisco 8-Man. It also holds four people as a paddle boat. Weighs 52 lbs. Shipped motor freight collect. **#152** (ship wt 60 lb) **\$350.00**

10-Man Udisco A medium sized raft often paddled by four to six people. The 9" bow and stern rise give it good handling characteristics, and the 18" tubes provide enough capacity for most uses. Shipped motor freight collect. **#153** (ship wt 75 lb) **\$400.00**

one of our larger frames that carries a cooler (like the Universal). Thus, this is a better choice if you plan to take week-long trips. The River Rider 14 is an excellent five or six-person paddle raft as well.

The River Rider 14 Special and 15 Special come with wrap-up floors for increased protection against abrasion and puncture along the bottom of the main tubes. Both models have three main air chambers plus two thwarts, all with Campways military-style valves. Thwarts in these boats are attached in the front, laced-in in the rear. Frame wear strips are standard on the 14 and 15 Specials. The 14 Special has the same capacity as the River Rider 14. The 15 Special has the large capacity needed for taking up to eight paddlers or four passengers on longer expeditions. All River Riders are shipped motor freight prepaid.

- #133** RR-13 (ship wt 100 lb) **\$900.00**
- #134** RR-14 (ship wt 110 lb) **\$1,000.00**
- #135** RR-14 WFS (ship wt 120 lb) **\$1,200.00**
- #136** RR-15 WFS (ship wt 140 lb) **\$1,300.00**

Campways Miwok and Shoshoni

Campways Red Line boats are high-quality, durable rafts which can handle any river situation. Their tube material is 37 oz, 840 denier, 80% Hypalon-coated, with 1200 denier, 60 oz floor material (neoprene blend coated). The Miwok is considered a classic boat for private river runners with plenty of room for four on most trips. The Shoshoni Wrap-up is popular for commercial and big-water use. These boats are shipped motor freight prepaid.

- #137** Miwok (ship wt 140 lb) **\$1,695.00**
- #138** Miwok WF (ship wt 175 lb) **\$1,995.00**
- #139** Shoshoni WF (ship wt 190 lb) **\$2,195.00**

enough confidence in this fabric that they guarantee it for a full five years. Avon rafts are equipped with anti-chafing strips, D-rings, lift handles, and repair kit. All Avon rafts are shipped motor freight prepaid.

- #121** Redshank (ship wt 80 lb) **\$1,295.00**
- #122** Explorer MK II (ship wt 98 lb) **\$1,715.00**
- #123** Adventurer MK IV (ship wt 115 lb) **\$2,120.00**
- #124** Professional MK VI (ship wt 130 lb) **\$2,820.00**

10-Man Heavy-Duty Udisco Udisco's 10-man design constructed of 840 denier material coated with an EPDM/rubber mixture; the heavier base fabric makes this a tougher boat than the standard model. It's also a bit wider, thus more stable, than its standard counterpart. **#154** (ship wt 88 lb) **\$550.00**

14-Man Heavy-Duty Udisco The 14-HD is a large boat with generous capacity for passengers or gear. In a raft this size, the extra durability of the 840 denier nylon fabric is really a necessity. Comes with laced in thwarts. Shipped motor freight collect. **#156** (ship wt 95 lb) **\$650.00**

10-Man Hypalon Deluxe Udisco Udisco's top-of-the-line model is constructed of 840 denier tube material coated with a mixture of Hypalon and other rubber compounds. The floor is an extra heavy-duty 1200 denier material wrapped up to the rubbing strake. Extra-wide frame wear strips give additional protection on the tops of the tubes. Thwarts are laced-in. The 10-Man Deluxe design is wider, with larger diameter tubes, than the Udisco 10 or 10-HD models, thus improving its weight capacity and providing a drier, more stable ride. Shipped motor freight collect. **#157** (ship wt 130 lb) **\$900.00**

(Photo by Bill Woolston)

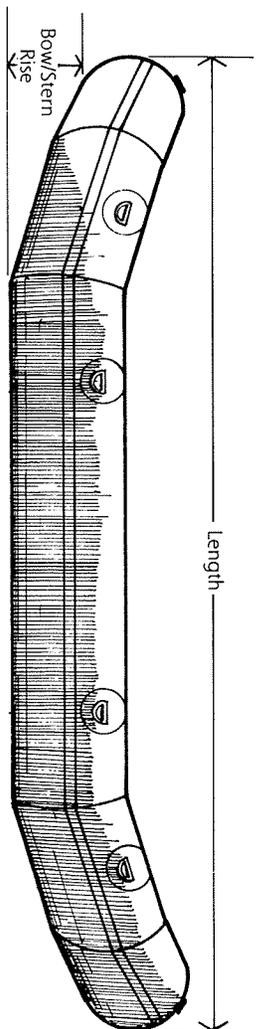


UDISCO 8-man with small Slant-seat Frame



TOLL FREE ORDER LINE
800-635-5202

RAFT SPECS



Length	Width	Main Tube Diameter	Thwart Diameter	No. of Main Tube Chambers	Center Compartment Length/Width in inches	Bow/Stern Rise in inches	Tube material Denier/oz sq yd	% Hypalon	Floor material Denier/oz sq yd	No. of D-Rings	Suggested Oar Length in feet	Unboxed Boat Wt (lbs)	Price
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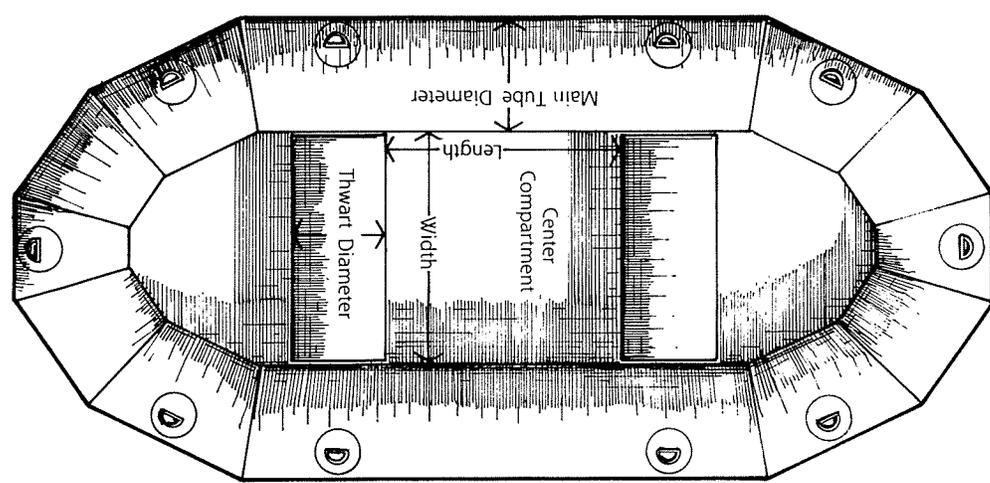
NIRS														
Sport II	14'9"	7'	20.5"	15"	4	45/43	11/11	840/43	80	1260/58	14	9-10	140	\$1,495
Otter	11'2"	5'6"	16.5"	13"	2	21/36	0/0	420/26	0	840/30	1	6-7	48	\$235
Sprite	12'	5'10"	17"	15.5"	4	30/36	8/8	840/32	0	840/32	12	7-8	65	\$435
Scout	15'	7'	20.5"	17"	4	41/43	10/10	840/32	0	840/32	12	9-10	90	\$585

ACHILLES														
SV-110	11'	5'2"	15"	12"	3	29/32	7/7	840/43	80	840/43	9	7-7½	66	\$900
SV-126	12'6"	5'10"	17"	12"	3	39/36	7/7	840/43	80	1260/58	12	7½-8	90	\$1,100
SV-140	14'	6'8"	19.5"	15.5"	4	43/41	10/10	840/43	80	1260/58	13	9-10	120	\$1,475
SV-156	15'6"	7'	21"	16.5"	4	41/42	11/11	840/43	80	1260/58	13	9-10	165	\$1,850
RV-130	13'	6'1"	18"	14"	4	35/37	8/8	840/43	80	1260/58	11	8-8½	128	\$1,500
RV-140	14'	6'8"	20"	15.5"	4	43/40	10/10	840/48	80	1260/58	11	9-10	155	\$1,750
RV-160	16'	7'6"	23"	16.5"	4	45/44	11/11	840/48	80	1260/58	11	10-11	185	\$2,250

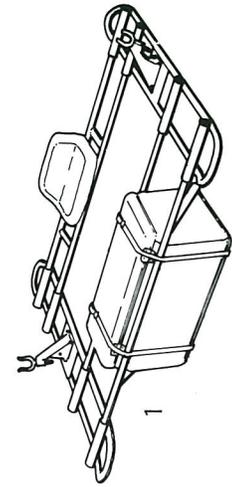
AVON														
Redshank	12'3"	5'6"	15"	13"	2	31/36	8/2	420/32	85	420/32	1	7-8	62	\$1,295
Explorer MK II	12'4"	6'2"	17"	15"	3	41/40	7/3	420/32	85	840/35	5	7½-8½	83	\$1,715
Adventurer MK IV	13'9"	6'8"	18"	15"	4	41/44	9/9	840/35	85	840/40	10	9-10	99	\$2,120
Professional MK VI	15'9"	7'4"	21"	16.5"	4	45/48	12/12	840/40	85	840/45	10	10-11	114	\$2,820

CAMPWAYS														
RR-13	13'2"	6'	17.5"	15"	2	41/37	10/6	420/35	25	840/37	9	7½-8½	83	\$900
RR-14	13'8"	6'8"	19.5"	15"	2	42/41	10/5	420/35	25	840/37	9	9-10	93	\$1,000
RR-14 WFS	13'8"	6'8"	19.5"	15"	3	42/41	10/5	420/35	25	840/37	9	9-10	102	\$1,200
RR-15 WFS	15'	6'10"	20"	17"	3	41/41	9/5	420/35	25	840/37	12	9-10	118	\$1,300
Miwok	13'8"	6'8"	19.5"	17"	4	42/41	9.5/9.5	840/37	80	1200/60	12	9-10	130	\$1,695
Miwok W/F	13'8"	6'8"	19.5"	17"	4	42/41	11/11	840/37	80	1200/60	12	9-10	155	\$1,995
Shoshoni W/F	16'	6'10"	19.5"	17"	4	44/44	10/10	840/37	80	1200/60	12	9-10	170	\$2,195

UDISCO														
8-Man	12'	5'8"	16"	14"	4	27/37	6/6	420/24	0	420/24	0	7½-8	52	\$350
10-Man	14'	6'2"	18"	15"	4	42/38	9/9	420/24	0	420/24	0	8-9	65	\$400
10-Man HD	14'	6'6"	18"	15"	4	42/42	9/9	840/30	0	840/30	11	9	78	\$550
14-Man HD	15'6"	7'	21"	16"	4	54/42	11/11	840/30	0	840/30	11	9-10	85	\$650
10-Man Hypalon	14'2"	6'8"	21"	16"	4	41/38	7.5/7.5	840/35	0	1200/40	11	9-10	120	\$900



Note: Raft specifications are based on figures supplied to us by the manufacturers. Actual boat measurements will vary slightly.



1 Universal Frame Our heavy-duty steel frame comes apart into four main pieces for convenient transporting. Two side rails are formed from steel tubing and shaped to fit on top of the raft's main tubes. Two "H"-shaped cross pieces fit into sleeves on the side rails and are held in place by four fast pins (included). The back cross piece is fitted with a padded raft seat for the boatman; the front cross piece has a combination foot brace and cooler cradle, plus two 9 ft straps to hold the cooler. (The #880 80 Qt Gott Cooler fits perfectly; other coolers smaller than 35" x 17" also fit.) Oarlock stands are included and can be bolted on in three different positions to adjust to almost any size rafter.

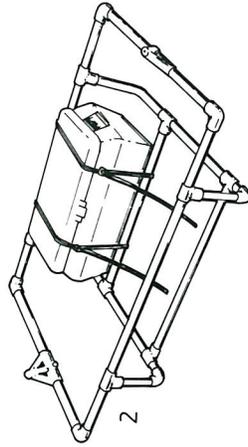
Because individual raft dimensions vary slightly, you must trim the cross members and drill for the fast pins. Just assemble the frame on your raft, trim the cross pieces, and drill through the cross pieces at the appropriate points with a 5/16" bit. The entire assembly is 78" long by 69"-72" wide (depending on the raft) and weighs 80 lbs. Constructed of .065 wall, 1/4" electroweld medium carbon steel; painted with blue industrial enamel. Fits rafts measuring 13'6" or longer; please specify your raft model when ordering. Shipped motor freight collect.

#160 (ship wt 90 lb) **\$325.00**

Super Frame This is the extra-large version of our Universal Frame, designed to hold the #884 151 Qt Igloo Cooler. Specifications are identical to those of the Universal except the Super Frame measures 82" long by 77"-84" wide, has extra bracing in its cooler and seat assemblies, and weighs 85 lbs. It fits the Sport, the Achilles SV-156, RV-160, and RV-180, the Campways Havasu and Shoshoni WF, and the Avon Professional and Spirit. This is the frame to buy if you own a really big raft and need extra cooler capacity for long trips or big crowds. You trim and drill the Super Frame to fit your boat. When ordering please specify your raft model. Shipped motor freight collect.

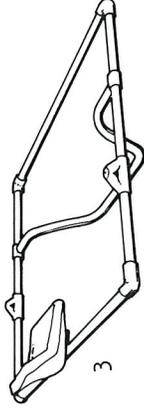
#161 (ship wt 95 lb) **\$365.00**

Aluminum Frames Our aluminum frames are strong, lightweight, portable, and inexpensive. Because of their convenient packing size and weight, we can ship them via UPS, which is faster and less expensive than motor freight. It also means that they are easy to take along in your car (or plane, if you fly in). We carry aluminum frames in six models to suit almost anyone's boating needs. No matter what model you choose, assembly is quick and relatively simple, and it's easy to adjust the frame to fit yourself. The oarlock stands can be placed wherever you like: simply position, then drill at the appropriate points on the side rails. You also size the frame to fit your boat exactly. All it takes is a hacksaw, a 5/16" drill, and about 30 minutes. Assemble the frame on your raft, trim the side pieces to suit the width, then drill for fast pins. All frame fittings are cast aluminum with recessed case-hardened set screws tightened with an Allen wrench. (Two wrenches are included with each frame.) 5/16" fast pins reinforce all critical joints. Frame tubing is 6061 T-6 aluminum pipe. Pins and clips or open oarlocks fit all our aluminum frames.



2 Expedition Frame The Expedition Frame uses a cooler for the seat (the #880 80 Qt Gott Cooler works well) and is designed to fit boats measuring 13'6" or longer, such as the Sport, the Avon Professional, and the Campways Shoshoni WF. (If your boat's interior width is less than 43" you'll have to trim the cross bars to fit.) A strong and sturdy frame which gives you the added convenience of an adjustable foot brace—nice to have when different-size boatmen switch off in rowing. The Expedition Frame packs into a 10" x 6" x 70" bundle; assembled, it measures 48" x 70" (approx.). It weighs 39 lbs, can be shipped UPS or parcel post, and comes complete with two 9 ft cooler straps and assembly instructions.

#163 (ship wt 42 lb) **\$250.00**



3 Bighorn Frame The Bighorn combines the simplicity and light weight of the Longhorn with the cooler-carrying capacity of the Universal Frame. The padded seat gives extra security and comfort when rowing and is adjustable to accommodate different size boatmen. The Bighorn has only five aluminum tubes and six fittings, which makes it a snap to assemble. Put it together, strap in your cooler (two 9 ft straps are included), and you're off. (Most coolers 80 qt sized or smaller will fit.) Packaged dimensions are 10" x 6" x 70" (frame members), plus the padded seat, and the assembled dimensions are 54" x 70" (approx.). The Bighorn Frame fits boats measuring 13'6" or longer, weighs 38 lbs, and can be shipped UPS.

#162 (ship wt 42 lb) **\$225.00**

4 Padded Raft Seat The Padded Raft Seat is an excellent addition to your homemade rowing frame or older model Universal or Super Frame (pre-1980). The fitted seat gives you a secure feeling when rowing in big water and keeps you positioned much better than the smooth surface of a cooler or a flat seat. Foam-padded steel covered with white molded vinyl; fastens to your frame with 5/16" bolts (not included).

#172 (ship wt 8 lb) **\$30.00**

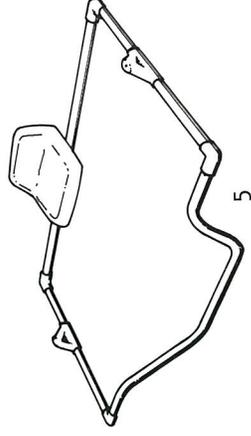


Slant-seat Frames A very functional design with a front "longhorn" section that forms the foot brace, two side rails with adjustable oarlock stands, and a back cross bar. The wooden slant seat bolts to both the foot brace and back bar, so it's super strong. See photo on p 6 and 7.

The Small Slant-seat Frame fits rafts less than 13'6" long, has unassembled dimensions of 10" x 6" x 60", assembled dimensions of 36" x 60" (approx.), weighs 27 lbs, and can be shipped UPS or parcel post.

The Large Slant-seat Frame fits rafts 13'6" and longer, has unassembled dimensions of 10" x 6" x 70", assembled dimensions of 36" x 70" (approx.), weighs 28 lbs, and can be shipped UPS.

#165 Small (ship wt 30 lb) **\$160.00**
#166 Large (ship wt 32 lb) **\$165.00**



5 Longhorn Frames Essentially the same design as the Slant-seat Frame, but the wooden slant seat has been replaced by our #172 Padded Raft Seat. The padded seat makes this a very comfortable frame to use on longer trips. The seat is attached by four 5/16" bolts (included) to a plate welded to the back frame bar and is adjustable.

The Small Longhorn Frame fits rafts smaller than 13'6", has unassembled dimensions of 10" x 6" x 60" (frame members) plus the padded seat, assembled dimensions of 38" x 60" (approx.), weighs 28 lbs, and can be shipped UPS or parcel post.

The Large Longhorn Frame fits boats longer than 13'6", has unassembled dimensions of 10" x 6" x 70" (frame members) plus the padded seat, assembled dimensions of 38" x 70" (approx.), weighs 29 lbs, and can be shipped UPS or parcel post.

#167 Small (ship wt 32 lb) **\$160.00**
#168 Large (ship wt 33 lb) **\$165.00**

Carlisle Oars Carlisle aluminum and plastic oars have virtually replaced wooden oars over the last few years in the hands of both private and professional river runners. Carlisle Oars are maintenance-free, very rugged, and with the removable blade, storage and transportation of the oars is a lot easier. Carlisle makes oars in several models: economy and standard boat oars, heavy duty and extra-heavy duty rafting oars. The only boat oar that we sell is the #199 6 ft Economy

Oar. The 7 ft, 7½ ft, and 8 ft Carlisle Oars are

the heavy duty rafting model, which means the shaft is constructed of a single thickness 6061 T-6 aircraft aluminum. All of the 8½ ft and longer Carlisle Oars that we sell are extra-heavy duty, utilizing a double layer of 6061 T-6 aluminum in the shaft for maximum strength in heavy whitewater use. The shaft on the Carlisle rafting oars is 1¾" in diameter with its full length covered by a layer of 1/8" polyethylene. This colorful polyethylene protects the aluminum shaft from nicks, dents, and oxidation.

Always on the lookout for improvements, Carlisle has redesigned the oar handle for 1983. The new one-piece molded polypropylene handle has a longer insert into the shaft for greater strength and is slightly textured for a good grip. Another improvement for 1983 is the STM II material that Carlisle is using in the blades. This material has very good resistance to ultraviolet light (the primary cause of brittleness in the less expensive plastics). These new STM II blades are substantially lighter and more flexible than in previous years, with no loss in

strength. An aluminum insert extends the full length of the blade for additional reinforcement. The blade locks securely into the shaft with a sturdy, spring loaded push-button and can be removed quickly for transportation, storage, or replacement.

Carlisle blades are available in three models: Standard (6½" wide), Magnum (8" wide), and Outfitter (8" wide, 60% stronger than the Magnum blade because of thicker aluminum insert). The Standard blade is slightly wider than last year's version and is good for use with open oarlocks. The Magnum blade gives extra power to each oar stroke, especially when used with pins and clips; also, by using Magnum blades, you can switch to an oar length one foot shorter without sacrificing leverage or maneuverability. The thicker aluminum insert in the Outfitter blade adds 6 oz of weight, but is preferred by rafters rowing big boats with heavy loads.

We now offer 9 ft and 10 ft Carlisle shafts in a take-down version that is especially convenient for fly-in trips or wherever cargo space is cramped. The two-piece shaft locks together with a simple, sturdy push button and accepts any of Carlisle's removable blades. Take down shafts are available in yellow.

All oar lengths up to and including 10 ft can be shipped UPS (shipping weight of 9 ft and 10 ft shafts is 25 lbs); 11 ft and 12 ft oars must be shipped motor freight collect. We stock yellow shafts in all lengths; yellow, blue, and red shafts are available in the 9 ft and 10 ft lengths. All blade models are available in yellow, blue, or black.

Carlisle Oar Extenders These pop on to the end of a Carlisle shaft to lengthen them a foot. Really convenient—especially if you are thinking about moving up a boat size, but don't want to buy new oars.

- #1990 Yellow (ship wt 1 lb) **\$11.00**
- #1991 Blue (ship wt 1 lb) **\$11.00**
- #1992 Red (ship wt 1 lb) **\$11.00**

W

6 Foot Economy Oar These Carlisle

Economy boat oars feature a specially formulated black plastic blade and handle designed with durability, light weight, and economy in mind. The nonremovable blade is 5½" wide and the unsheathed, 1-3/8" shaft is built of rigid, thick-wall, tempered aluminum. These oars will do a fine job propelling your Otter around the lake or down a slow river, but are not designed nor intended for heavy whitewater use.

\$16.00 ea



PLEASE NOTE that all Carlisle rafting oar shafts and blades are sold separately. To order a complete oar, please list the catalog number and price for both the shaft length and color and the blade model and color desired.

- Shafts**
- #180 7 ft Yellow (ship wt 3 lb) **\$24.00**
 - #181 7½ ft Yellow (ship wt 3 lb) **\$25.00**
 - #182 8 ft Yellow (ship wt 3½ lb) **\$27.50**
 - #183 8½ ft Yellow (ship wt 4½ lb) **\$36.00**
 - #184 9 ft Yellow (ship wt 25 lb) **\$38.00**
 - #185 9 ft Blue (ship wt 25 lb) **\$38.00**
 - #186 9 ft Red (ship wt 25 lb) **\$38.00**
 - #187 9 ft 2-Piece (ship wt 5½ lb) **\$42.50**
 - #188 10 ft Yellow (ship wt 25 lb) **\$44.00**
 - #189 10 ft Blue (ship wt 25 lb) **\$44.00**
 - #190 10 ft Red (ship wt 25 lb) **\$44.00**
 - #191 10 ft 2-Piece (ship wt 6½ lb) **\$48.50**
 - #192 11 ft (ship wt 7 lb-MFC) **\$50.00**
 - #193 12 ft (ship wt 8 lb-MFC) **\$55.00**
- 6½" Blades**
- #1950 Yellow Std (ship wt 2½ lb) **\$27.50**
 - #1951 Blue Std (ship wt 2½ lb) **\$27.50**
 - #1952 Black Std (ship wt 2½ lb) **\$27.50**
- 8" Blades**
- #1960 Yellow Mag (ship wt 3 lb) **\$27.50**
 - #1961 Blue Mag (ship wt 3 lb) **\$27.50**
 - #1962 Black Mag (ship wt 3 lb) **\$27.50**
 - #1970 Yellow Oftr (ship wt 3½ lb) **\$32.50**
 - #1971 Blue Oftr (ship wt 3½ lb) **\$32.50**
 - #1972 Black Oftr (ship wt 3½ lb) **\$32.50**



Smoker Ash Oars For the purist, there is nothing like the feel and flex of a pair of ash oars. These #1 quality ash oars come to you ready to varnish. The 8 ft, 8½ ft, and 10 ft Smoker oars are at special closeout prices and limited to stock on hand. Lengths above 7½ ft must be shipped motor freight collect.

- #204 7 ft (ship wt 25 lb) **\$30.00**
- #205 7½ ft (ship wt 25 lb) **\$32.50**
- #206 8 ft (ship wt 7 lb-MFC) **\$40.00**
- #207 8½ ft (ship wt 8 lb-MFC) **\$50.00**
- #209 10 ft (ship wt 10 lb-MFC) **\$65.00**

W Sawyer Laminated Oars Ralph Sawyer, well-known Oregon paddle craftsman is now manufacturing high quality, laminated Douglas Fir rafting oars. Ralph builds them strong and lightweight (25% lighter than Smoker Ash Oars) and his lamination technique guarantees straight oars every time. These oars have excellent flex and resiliency and come to you ready to varnish. Must be shipped motor freight collect.

- #202 9 ft (ship wt 7 lb-MFC) **\$50.00**
- #203 10 ft (ship wt 8 lb-MFC) **\$65.00**

W Boat Bags We've redesigned our Large and Small Boat Bags for '83 so they're tougher and easier to pack. The new Poly-Pro Mesh fabric is a coated polyester that's not only tough and tear-proof, but also resistant to stretch, shrinkage, and degradation by UV light. To carry your boat, roll or fold it up, stand it on end, pull the bag down over, and draw the ¼" rope closure tight. The Small Bag measures 44" x 60", with a 2" web carry handle on top. The Large Bag measures 54" x 72" with a web carry handle extending completely beneath the bottom and up the sides. This gives extra strength and also allows two people to carry a heavy load between them. Both Boat Bags are handy for keeping life jackets, wetsuits, etc. collected to and from the river, and the open weave of the fabric lets things dry out inside.

- #358 Small (ship wt 3 lb) **\$21.95**
- #359 Large (ship wt 5 lb) **\$29.95**

NRS Bailing Bucket A practical take-along bucket for all your river trips. Because it's collapsible, the Bailing Bucket conforms to the bottom of your boat for efficient bailing. When you don't need to bail, fold it up for easy storage or use it to hold rope, straps, etc. Made of 22 oz PVC-Dacron with a 1" web handle, the Bailing Bucket measures 7" x 7" x 11" and holds 1½ gallons.

- #344 (ship wt 1 lb) **\$9.95**

OARLOCKS, STANDS & STOPPERS

2 Oarlock Stands Professionally designed and manufactured for heavy-duty river use, our Oarlock Stands have a 5¼" x 5¼" steel base with four mounting holes and a welded steel bracket that rises 6". The socket itself is 5/8" diameter, with a 14° outward tilt for correct oar angle. Use these on your homemade rowing frame; you'll be amazed at the difference a pair of high quality oarstands will make.

- #280 (ship wt 7 lb) **\$38.00 pr**

3 Pins and Clips Beginning boaters overwhelmingly prefer Pins and Clips to open oarlocks because the Pin and Clip set-up holds the oar in position and keeps the oar blade properly aligned with the water. Some maneuvers (like feathering the oars) are not possible with Pins and Clips, but we feel the advantages more than make up for the inconveniences. The set contains two 5/8" diameter Pin Assemblies, two Oar Clips, and four Hose Clamps to secure the Clips to the oars.

- #285 (ship wt 7 lb) **\$28.00**

Extra Clip Don't forget a Clip for your spare oar. Includes two Hose Clamps.

- #286 (ship wt 1½ lb) **\$9.50**

Extra Pin Assembly Assembly includes: 5/8" diameter bolt, protective rubber cap, lock nuts, washers, and PVC bushing.

- #288 (ship wt 2 lb) **\$4.95**

Carlson Oar Stirrup You'll really appreciate these clever ¼" polyethylene stirrups the next time your oar pops out at the top of a big drop. They rotate freely on the pin sleeve and let you guide the oar clip back onto the pin with just one hand. This unique device greatly reduces the chances of losing an oar.

- #289 (ship wt 1½ lb) **\$11.00 pr**



TOLL FREE ORDER LINE
800-635-5202

4 Manganese Bronze Oarlocks The 3½" long shaft of this oarlock is polished to fit a 5/8" socket and is drilled for a split ring or other keeper. If forced open, Manganese Bronze Oarlocks can be pounded back together. (When using Carlisle oars with open oarlocks, we recommend the #310 Molded Oar Sleeves.) Horn opening is 2" with 2-5/8" inside diameter. Includes a pair of #303 Split Rings.

- #300 (ship wt 2 lb) **\$12.00 pr**

Silicon Bronze Oarlocks. These Silicon Bronze horns spring back to their original shape when forced apart and are stronger than Manganese Bronze. Shaft and horn are polished; the 5/8" diameter by 3¼" long shaft is drilled for a keeper. Horn opening is 2" with a 2-5/8" inner diameter. Includes a pair of #303 Split Rings.

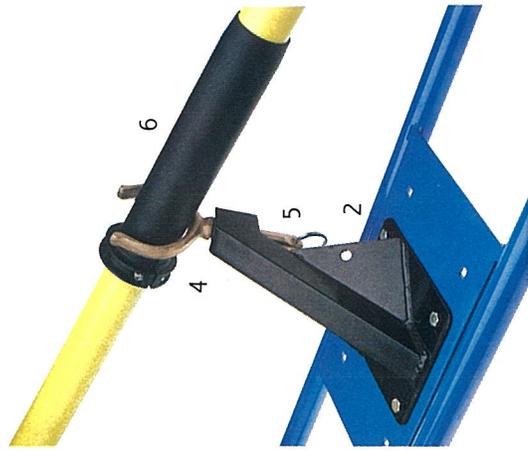
- #302 (ship wt 2 lb) **\$24.00 pr**

5 Split Rings A safe and sure method of securing an open oarlock into the stand.

- #303 (ship wt 2 oz) **\$5.50 pr**

6 Molded Oar Sleeve If you use Carlisle Oars and open oarlocks, try these instead of radiator hoses and stoppers. Sleeves are injection-molded polyethylene with integral stoppers. Slide them onto the oarshaft (heating them in a pan of warm water makes this much easier), then tighten the set screw. Overall length is 11", and the inside sleeve diameter is 1-7/8". Outside sleeve diameter is 2¼"; stopper diameter is 3".

- #310 (ship wt 10 oz) **\$6.95 ea**



¼" Nylon Rope To protect your wooden oars from open style oarlocks, we suggest ¼" nylon rope, wrapped tightly and tacked in place with very small brads. Usually 35 ft is required for each oar.

- #304 (ship wt 8 oz/35 ft) **\$5.10ft**

Rubber Stoppers Rubber oar stoppers are used to keep ash oars from sliding through the oarlocks. To hold the stoppers in place, use a radiator hose clamp, tape, or silicone rubber cement. Not recommended for use with Carlisle Oars.

- #306 (ship wt 10 oz) **\$5.00 pr**

Plastic Stoppers These oar stoppers allow easy adjustment of the fulcrum point on your oars. Construction is heavy-duty plastic with locking bolts on each side. Will not fit Carlisle Oars.

- #308 (ship wt 12 oz) **\$6.00 pr**



4

Raft Paddles We've found both the Mohawk and Carlisle paddle to be very satisfactory for rafting. They are also excellent canoe paddles. Usually, rafters need longer paddles (56"-63") in order to reach over the large buoyancy tubes of big rafts, while canoeists prefer shorter lengths. **SPECIAL: BUY ANY THREE (OR MORE) PADDLES & SAVE \$1.00 OFF THE REGULAR PRICE OF EACH PADDLE!**

1 Carlisle Economy Paddle The Carlisle Economy Paddle is an excellent buy if you're looking for an inexpensive, lightweight, sturdy paddle. The 8" x 20" black polypropylene blade is fully reinforced by the 1" diameter aluminum shaft, so the whole paddle is super strong. It comes with a comfortable T-grip handle and plastic sheath grip and weighs in at a very light 1 lb., 13 oz (54" size), about as light as some wooden paddles, but at less than half the price. Available in 54" or 60" lengths. **#210-54" or 60" (ship wt 2 lb) \$10.95**

2 Carlisle STM Paddle This is the paddle favored by most outfitters and canoe liveries because it offers exceptional durability with virtually no maintenance. The 8" x 20" blades are made of STM plastic which is resistant to UV degradation. The 1-1/8" diameter aluminum shaft is fully coated with high density polyethylene that protects the shaft from nicks, dents, and corrosion. The Carlisle paddle comes with a T-grip handle and weighs 2 lb., 6 oz in the 60" size. Available in 56", 60", and 66" lengths. **#212-56" or 60" (ship wt 2 1/2 lb) \$21.00**
#2121-66" (ship wt 3 lb) \$21.75

Standard Mohawk Paddle Canoe Magazine rates this paddle a "real bargain", and we agree. The 8" x 20" blade is made of durable ABS plastic that has good flex. A metal blade insert provides some stiffness, and the blade is crimped onto the shaft to eliminate looseness. The 1-1/8" diameter anodized shaft has a heat-shrink vinyl grip and T-grip handle. We offer four lengths: 54", 57", 60", and 63". The 60" length weighs 2 lbs.
#213-54", 57", 60", 63" (ship wt 2 1/2 lb) \$14.95

Magnum Mohawk Paddle This paddle is identical to the #213 Mohawk in design and construction, but boasts a 9" wide blade. This is a good paddle for those of you who really like to lean into your stroke and see results. Offered in 54", 57", 60", and 63" lengths. Weighs 2 lbs., 2 oz in the 60" length.
#215-54", 57", 60", 63" (ship wt 2 1/2 lb) \$17.95

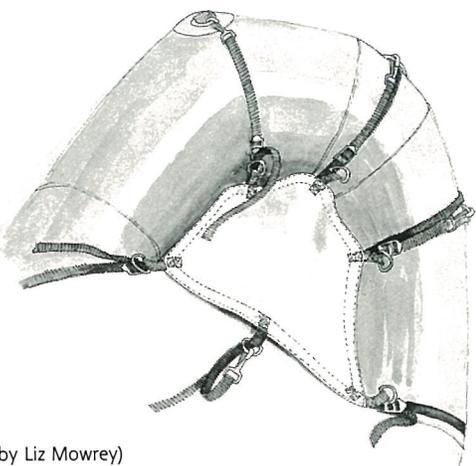
Carlisle Standard Paddle Carlisle uses a high quality polypropylene material in the 8" x 20" blade of this paddle to cut down the weight and still have excellent strength and durability. The high strength aluminum shaft extends to the end of the blade and is completely sheathed with polyethylene. These features, along with the economical price, make this Carlisle's most popular paddle for both rafting and canoeing use. Carlisle's Standard Paddle has a blue shaft, yellow blade, and T-grip handle; available in 56" and 60" lengths.
#211-56" or 60" (ship wt 2 1/2 lb) \$16.95

3 Rafter's Gloves These Rafter's Gloves are light, strong, and comfortable. The palms are coated for improved grip, and the backs are meshed for ventilation. Quick drying increases blister protection, and the extra coating protects against rope burns. Try them for rafting, canoeing, windsurfing, or even racquetball. Sizes: S (7-7 1/2), M (7 1/2-8), L (8-8 1/2), and XL (8 1/2-9). (Send us a tracing if you're not sure of your size.)
#350-S,M,L,XL (ship wt 4 oz) \$5.75 pr

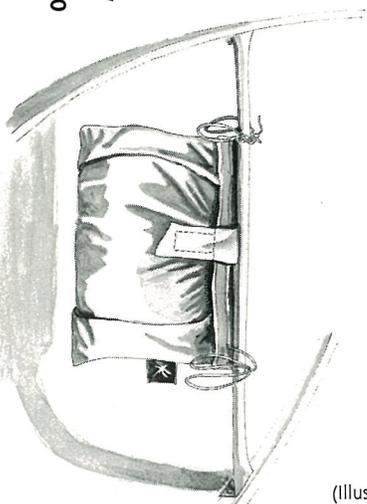
4 Boating Gloves These gloves are fantastic! The soft gray leather palm prevents blisters and gives a firm grip on a wet paddle, while the open finger tips allow for greater dexterity when you have to untie a knot or pop open a can top. Lightweight nylon mesh on the back of the glove conforms to your hand and allows good ventilation. Also great for bicycling, driving, or any sport that demands both manual protection and dexterity. Sizes: Small (6-8), Medium (7 1/2-9), and Large (8 1/2-11).
#352-S,M,L (ship wt 6 oz) \$19.95 pr

Otter Pocket This nifty bag ties onto a canoe thwart or raft frame and serves as an accessible catch-all for the inevitable clutter in your boat. A clever elastic and Velcro-flap closure keeps suntan lotion, beverage cans, or whatever, collected and safe through the wildest whitewater stretches. Made by Dragonfly Designs in a tough 1.9 oz rip-stop K-Kote nylon, the Otter Pocket measures 10 1/2" x 15".
#347 (ship wt 8 oz) \$12.00

Cargo Platform Tired of wrestling bulky plywood decks, rope slings, and other makeshift cargo carriers on and off the raft? With the NRS Cargo Platform you can say goodbye to your jury-rigged system. A 24 oz PVC-coated nylon material gives the Cargo Platform enough strength to support large loads, so don't be afraid to pile on the gear. For '83, we've added D-ring attachments at each corner, so it's easier to secure all your bags and boxes. Six adjustable, heavy-duty 1" webbing straps extend completely beneath the Platform for extra strength and stretch a full 48" beyond to snap on to raft D's, thwarts, or a frame assembly. The Cargo Platform is designed to fit the Sport, but it works well on just about any raft. 16 ft or smaller (it measures 41 1/2" long on its longest side). When not in use, the Platform folds down into a compact bundle that weighs 2 1/2 lbs.
#343 (ship wt 3 lb) \$29.95



(Illustrations by Liz Mowrey)



1 Big Blower If you have access to a 110 volt, 6.5 amp AC electrical outlet, this pump is the answer to inflating your raft quickly and painlessly. It provides up to three pounds pressure and inflates an 18 ft raft in under five minutes! The electric motor is one full horsepower, with a 60 cubic ft per minute air output. The blower motor is cooled by the air flow around it, so when you top off an air chamber, make sure you let some air escape around the valves. This is particularly important when using the Blower to deflate a boat; otherwise, you can burn out the motor. Nozzle fits military valves. Has a heavy-duty 30 ft cord and on/off thumb switch. One-year guarantee. **#226 (ship wt 11 lb) \$95.00**

2 LVM Blower The LVM Blower operates from a 12 volt battery to give you quick and reliable inflation. It provides up to 3 p.s.i. pressure and, at 20 cu ft per minute volume, can inflate a 14 ft raft in less than 5 minutes. British-made, with prelubricated sealed bearings that never need servicing, the LVM comes complete with 9 ft cable, large battery clips, deflation port, and three different adapters that fit military-style and most other valves. **#225 (ship wt 3 lb) \$75.00**

3 The Super Breather The Super Breather, LVM's economy model, gives up to 1½ p.s.i. inflation (9 cu ft per minute volume) when connected to a 12 volt battery. It comes with a 6 ft cable, deflation port, battery clips, and three different valve adapters. **#227 (ship wt 2 lb) \$37.50**

7 Avon Foot Pump Following the tradition of Avon rafts, the Avon Pump sets the highest standards in quality materials and workmanship. The bellows plate is 7/16" laminated marine plywood with a nonslip vinyl pad. Bellows are made of Avon Hypalon material. The heavy-duty hose is 55" long, and the nozzle fits military-style valves. One year guarantee. **#224 (ship wt 5 lb) \$70.00**

8 Hand Pump This 3½" x 12" low volume/high pressure pump is super for topping off most any raft with military-style valves. Take this one down the river instead of your bulky barrel-style pump if you like to travel light. Same quality construction as the #220 Barrel Pump. Hose length is 40". **#228 (ship wt 3 lb) \$25.00**

9 Inflation Gauge Adequate tube pressure is necessary for successful river running, yet over-inflation can be disastrous. Use a pressure gauge to be sure your raft is inflated correctly. This medium-pressure model will do the same job as gauges costing up to \$40.00. It fits all military valves. **#229 (ship wt 6 oz) \$10.00**

10 JP Pump Inexpensive, high volume barrel pump made of ABS plastic with aluminum plunger, plastic fittings, molded, glued-on bottom with integral foot rest, deflation valve, and 42" heavy-duty hose. Neoprene gasket requires no maintenance. Two-part nozzle fits military-style valves. Stroke 18", bore 5½". **#218 (ship wt 9 lb) \$35.00**

11 Barrel Pump This is a high volume manual pump with an 18" stroke and 5½" bore. The Barrel Pump features a tough, ABS plastic body with an aluminum plunger, foot rest, precision valves, deflation port, and a 42" inflation hose. The pump leather should be periodically lubricated with a non-vegetable oil (automobile transmission fluid works well) for trouble-free operation. Two-part nozzle fits military-style valves. **#220 (ship wt 11 lb) \$70.00**

12 Carlson Pump This barrel pump is made of sturdy PVC components. It "breathes" through the easy-to-grip handles and has a leather cup and brass valve that should last a lifetime. Stroke 21", bore 4", and a 6½ ft plastic non-kink hose. Lifetime guarantee. **#221 (ship wt 9 lb) \$88.00**

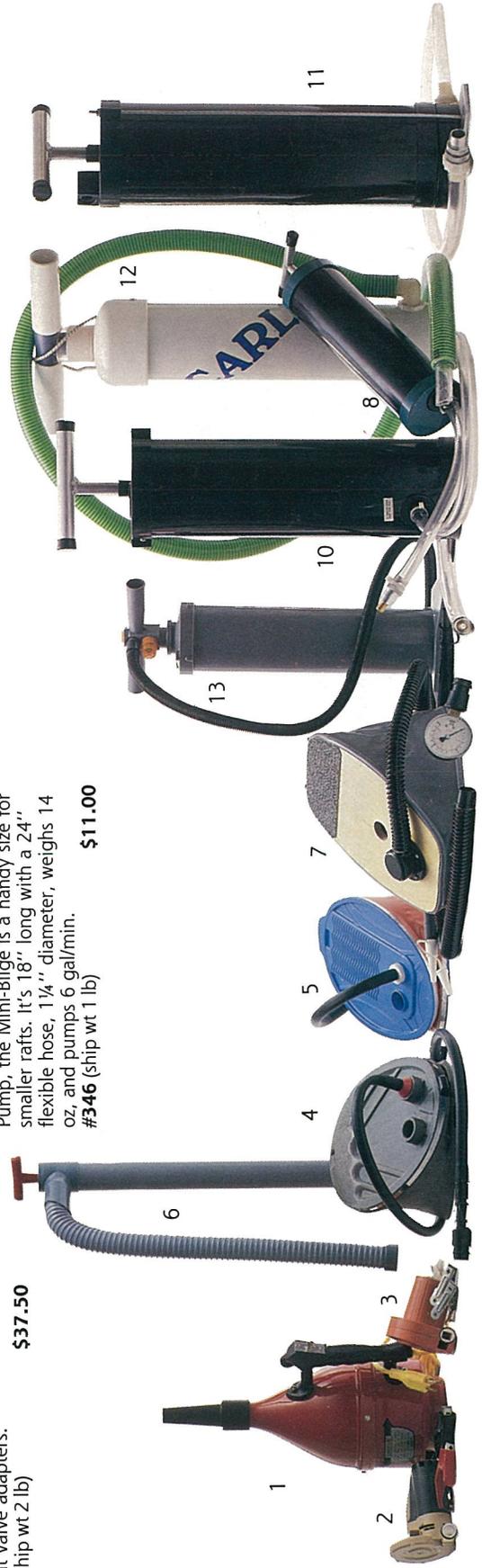
13 Wonder Pump Truly a well-deserved name—this pump provides high pressure and inflates on both the down and up strokes. Tough, lightweight plastic body, neoprene gasket, and 5 ft long non-kink hose with three-piece adapter that fits military-style and most other valves. Also works great for inflating Tahitis and other inflatable kayaks. 3¾" bore, 14" stroke. **#219 (ship wt 5 lb) \$50.00**

4 NRS Pump The NRS Pump is back! We're yet to find a foot pump that's more durable or reasonably-priced than this one. For '83, we've added a tough, clear vinyl 54" hose. The NRS Pump has a heavy-duty steel hinge, tough 8" x 12" top and bottom, rubber-coated steel foot plates, inflation/deflation ports, and durable rubberized cloth bellows. The three-part plastic adapter fits Tahiti and Sea Eagle valves; a rubber adapter is included for military-style valves. Volume is approximately 1½ gal (250 cu inches). **#222 (ship wt 6 lb) \$37.50**

5 Economy Foot Pump An economical foot pump that's good for use on smaller rafts and inflatables. It has plastic foot plates with inflation/deflation ports, rubberized bellows, and a 40" hose with a three-part adapter/nozzle that fits military-style valves (Otter), or Tahiti and Sea Eagle valves. Volume approximately 5 qts. **#223 (ship wt 2½ lb) \$17.50**

6 Bilge Pump If you like to go through rapids sideways, we have the answer to your bailing problems. This 24" long, 1¾" diameter Bilge Pump is self-priming and made of noncorrosive components, including a 24" flexible hose. It features a comfortable T-grip plunger, weighs 17 oz, and pumps 10 gal/min. If it clogs, just remove the bottom and clean out the inside. **#345 (ship wt 1½ lb) \$15.00**

Mini-Bilge A lower volume version of the very popular #345 Bilge Pump, the Mini-Bilge is a handy size for smaller rafts. It's 18" long with a 24" flexible hose, 1¼" diameter, weighs 14 oz, and pumps 6 gal/min. **#346 (ship wt 1 lb) \$11.00**



Heavy Duty Straps The Heavy Duty

Straps that we offer have become renowned over the years as one of the most secure, durable, and easy to use cargo restraint systems available. The thumb release, spring loaded, 1" cam-action buckle has "teeth" on the cam that hold the web strap very securely at the desired length and tension. These cast zinc, rustproof buckles were designed for use in the air cargo industry and have a generous load capacity in excess of 500 lbs. The 1" polypropylene

webbing in these straps is resistant to weathering and abrasion, has minimal stretch, and a tensile strength of 500 lbs to match the buckle. Try some of these straps on your next river trip—the 3' strap is just right as a raft frame tie-down and the longer straps do an excellent job of tying gear into your raft. I particularly like them for holding down car-top loads. If you are like me, and not particularly clever with ropes and knots, you will especially like these straps. For those of you that would like to make your own custom length straps, more intricate cargo restraint systems, or even durable, attractive belts, we offer the Heavy Duty Cam-Action Buckle and 1" Heavy Duty webbing separately.

- #320 3 ft HD Strap (ship wt 3 oz) **\$2.70**
- #321 6 ft HD Strap (ship wt 4 oz) **\$3.30**
- #322 9 ft HD Strap (ship wt 4 oz) **\$3.85**
- #323 12 ft HD Strap (ship wt 5 oz) **\$4.40**
- #324 15 ft HD Strap (ship wt 5 oz) **\$4.95**
- #325 20 ft HD Strap (ship wt 7 oz) **\$5.90**
- 1 #326 HD Buckle (ship wt 2 oz) **\$2.00**
- #327 1" HD Webbing (ship wt 2 oz/8 ft) **\$1.25**

W **2 Mini-Ratchet** The Mini-Ratchet assures you of a secure tie-down for large trailer loads and the like. Commercial outfitters use these to secure fully-inflated rafts being hauled to and from the river. The Mini-Ratchet has a 20 ft long 1" HD strap (rated at a 2500 lb load capacity) and a ratchet-tightener with patented safety lock that prevents sprocket latch release even under severe vibrations. **#328** (ship wt 2 lb) **\$17.50**

W **Mini-Lash** A 15 ft long ratchet-tightened cargo tie-down rated at a 2,000 lb load capacity. Great for securing your rowboat to a trailer or holding down car-top loads. Features a built-in ratchet safety lock. **#329** (ship wt 1 1/2 lb) **\$8.95**



3 **2" D-Ring Patch** Achilles developed this rugged, one-piece, molded Hypalon D-ring patch. The 6 1/2" gray patch secures a 2" stainless steel D-ring. Comes with a two-year guarantee. Order early; supplies are limited. **#314** (ship wt 8 oz) **\$15.00**

4 **1" D-Ring Patch** Same high quality as the #314 D-Ring: a 1" stainless steel D-ring on a 3 1/2" gray molded Hypalon patch. Order early; supplies are limited. **#315** (ship wt 2 oz) **\$6.00**

W **Otter D-Ring Patch** A 6" diameter D-ring patch made of EPDM-type material with a sewn-on 1 3/4" plastic-coated steel D which comes ready to glue on to your boat. While recommended for use on the Otter and other EPDM-coated rafts, it is not recommended for frame tie-downs on large rafts. **#316** (ship wt 4 oz) **\$5.00**

1 3/4" D's Package of five cadmium-plated 1 3/4" steel D's. **#317** (ship wt 10 oz) **\$2.25 pkg**

1 3/4" Webbing Heavy-duty webbing that can be used with the 1 3/4" D's and raft material to make your own D-ring patches. **#318** (ship wt 2 oz/4 ft) **\$1.25**

1" D's Package of ten cadmium-plated 1" steel D's. **#319** (ship wt 8 oz) **\$2.00 pkg**

5 **Carabiner** Carabiners were developed originally for use in climbing, and rafters have discovered that they make excellent boating accessories as well. Use them to clip your gear bag to a line or D-ring so it's secure yet accessible. Made of rust-proof aluminum and stainless steel, with a spring-loaded gate that opens to accept rope sizes up to 5/8". **#330** (ship wt 4 oz) **\$4.75**

6 **Spring Swivel Snap** Bill McGinnis recommends these. They are excellent for attaching to the end of a throw line when rescuing a raft. Overall length: 4"; eye diameter: 5/8"; made of cast malleable iron. **#332** (ship wt 2 oz) **\$1.50**

7 **Webbing Snap** Our choice for a heavy-duty bolt snap to attach 1" webbing for tie-downs. This snap does not swivel. Overall length: 3 1/2"; eye size: 3/4". **#333** (ship wt 2 oz) **\$1.25**

1 1/4" Poly Rope Twelve-strand, braided polypropylene rope, recommended for lashing gear into your raft. Knots in this rope will not tighten when wet. Floats. Recommended working load: 250 lb. **#336** (ship wt 8 oz/40 ft) **\$1.11 ft**

3/8" Poly Rope Eight-strand, hollow braid poly rope in the most all-around useful size. Floats. Recommended working load: 275-450 lb. **#337** (ship wt 8 oz/30 ft) **\$1.12 ft**

1 1/2" Poly Rope 1/2" diameter rope is the recommended size for a life line around a raft. This floatable rope has eight strands. Recommended working load: 630-1,050 lb. **#338** (ship wt 1 lb/50 ft) **\$1.15 ft**

W **Nylon Rope** Solid braid nylon is lightweight and has excellent shock-absorbing properties. 3/8" diameter size is useful for bow and stern lines; it has a recommended working load of 450-750 lb. 1/2" diameter is good for life lines. Recommended working load for 1/2" sizes is 800 lb. **#339** 3/8" (ship wt 1 lb/25 ft) **\$3.30 ft**
#340 1/2" (ship wt 1 lb/15 ft) **\$5.50 ft**

Manta Rubber Rope Make your own tie-downs for gear with heavy duty Manta Rubber Rope and Hooks. Stretch factor is about 60%. Add about 6" per hook. **#341** Manta Rope (ship wt 2 oz/ft) **\$5.50 ft**
#3411 Hooks (pkg of 4) (ship wt 4 oz) **\$1.00 pkg**



TOLL FREE ORDER LINE
800-635-5202



PATCHING ITEMS

Adhesives, Paints, and Cleaners No matter what material or adhesive you use, follow these steps when repairing a raft: Cut a suitably sized patch. (Patch edges should be at least 2" from the hole on all sides.) Lightly rough up the surfaces (both boat and patch) with a rasp or sandpaper, then clean with thinner/cleaner. Apply the adhesive on both surfaces and let dry (check instructions on the glue for proper drying time). When the adhesive is dried beyond tackiness, press the glued surfaces together with a roller. (The more forceful the contact, the better the bond.) Try to allow at least four hours for the patch to cure.

We have found the Carboline F-1 Neoprene Adhesive to be an excellent all-purpose, one-part adhesive for use on Hypalon, neoprene, and other rubber materials. Bostik adhesive is two-part (separate glue and accelerator which you mix together before applying) and recommended by Avon for use with their boats.

Painting a raft prolongs material life by providing abrasion resistance and protection from ozone and UV deterioration. The Aluminum Coating seems to be the easiest to use because it is a bit thinner, while the thicker Gray Coating provides a little more abrasion protection. Since neoprene coatings don't bond well to Hypalon, we recommend their use only on rafts manufactured in neoprene or EPDM (like Udiscos or the NRS Otter). Use the GACOflex Hypalon Coating for painting Hypalon rafts (it can also be used on neoprene or EPDM surfaces). We offer it in a sky-blue color, especially suited for use on Campways

River Riders. Figure on one gallon of coating to cover the tubes of a large raft. Thinner/cleaner, as the name implies, is used to thin the coatings and also to clean the raft before painting or patching. **CAUTION:** Be sure to allow adequate drying time after painting. GACO recommends at least one week. **NOTE:** all these items are flammable and can only be shipped UPS (ground) or motor freight.

Carboline Adhesive
 #231 3 oz tube (ship wt 4 oz)
 #233 Quart (ship wt 2 1/2 lb) \$3.25
 \$11.00

Bostik Two-Part Adhesive
 #235 1/4 Liter (ship wt 1 lb) \$10.00

GACO Thinner/Cleaner
 #237 Quart (ship wt 2 1/2 lb) \$8.75
 #239 Gallon (ship wt 9 lb) \$21.50

GACO Aluminum Coating
 #242 Quart (ship wt 2 1/2 lb) \$14.00
 #243 Gallon (ship wt 9 lb) \$45.00

GACO Gray Coating
 #244 Quart (ship wt 2 1/2 lb) \$14.00
 #245 Gallon (ship wt 9 lb) \$45.00

GACOflex Blue Coating
 #246 Quart (ship wt 2 1/2 lb) \$16.00
 #247 Gallon (ship wt 9 lb) \$46.00

Black Lettering Paint
 #249 Quart (ship wt 2 1/2 lb) \$14.00

Raft Material Prices are per running foot. See the Raft Chart (p 8) and the individual raft descriptions (pp 3-7 for detailed specifications).

No.	Type	Color	Width (Inches)	Ship Wt	Price (Per Ft)
259	Otter	Gray	53	1 lb	\$7.00 ft
260	Otter Floor	Black	53	1 lb	\$8.00 ft
261	River Rider	Blue	52	1 lb	\$8.50 ft
262	River Rider Floor	Black	55	1 1/4 lb	\$11.00 ft
263	Sprite/Scout	Brown	52	1 lb	\$8.50 ft
264	Campways	Gray	55	1 1/2 lb	\$11.50 ft
265	Campways Floor	Black	55	1 3/4 lb	\$13.00 ft
266	Sport	Gray	42	1 1/2 lb	\$10.00 ft
267	Sport Floor	Black	42	1 3/4 lb	\$11.50 ft
268	Avon	Gray	56	1 1/4 lb	\$13.00 ft

Repair Kits All kits include a 6" piece of material, a roller/rasp, an assortment of small patches, patching instructions, and 3 oz of Carboline adhesive; all packed in a wide-mouth Nalgene poly bottle. Flammable; no parcel post or air shipments, please.

No. Material Price
 #251 Otter (ship wt 1 lb) \$11.00
 #252 River Rider (ship wt 1 lb) \$11.50
 #253 Sprite/Scout (ship wt 1 lb) \$11.50
 #254 Campways (ship wt 1 1/2 lb) \$12.50
 #255 Sport (ship wt 1 1/2 lb) \$12.50
 #256 Avon (ship wt 1 1/4 lb) \$13.50

Wear Patch Material Textured synthetic rubber (about 1 mm thick) for frame wear patches. 10" wide. Sold by the running foot.
 #258 (ship wt 6 oz/ft) \$.75 ft

8 Roller/Rasp A handy repair instrument. Rasp the material before applying glue, then run the roller over the patched surface to get a good bond.
 #270 (ship wt 2 oz) \$1.75

9 Pro Roller The large wooden handle of the Pro Roller is more comfortable to grip than the #270 Roller, so it's better for those big repair jobs.
 #271 (ship wt 4 oz) \$4.25

Nylo-Flex Patches Set of semi-cured, nylon-reinforced rubber patches. I've found these to be quite handy for emergency boat repairs on the river. Includes one 6", two 3 1/2", three 2 1/2", and four 1 1/2" patches.
 #272 (ship wt 4 oz) \$2.50 set

Duct Tape Duct Tape is indispensable for quick repairs of all kinds on or off the river.
 Roll measures 1 1/2" x 60 yds.
 #274 (ship wt 2 lb) \$6.50

10 Sewing Awl Useful for repairs of all kinds. A pair of needles and 20 yds of thread packed neatly into the wooden handle for easy access and storage.
 #275 Awl (ship wt 4 oz) \$4.25
 #276 Extra Needles (ship wt 1 oz) \$2.00 pr
 #277 Extra Thread (ship wt 1 oz) \$1.25
 #278 Fine Needle & Thread \$2.00

All adhesives, thinners, and coatings are toxic and must be kept out of the reach of children.

WATERPROOF BAGS

We're proud of the reputation our waterproof bags have gained over the years. They are known throughout the US and Canada as the most reliable water-sports bags available and were chosen as the gear bags for the 1981 American Himalayan Whitewater Expedition. People use them not only for river-running, but for canoeing, sailing, hunting,

fishing—any time when quality waterproof protection is required. From the large capacity 3.8 cubic feet Bills Bag to the handy Stuff and Tuff Sacks and economical Gear and Day Bags, we're sure you can find a bag to suit your dry-storage needs.

All sizes of the Bills Bag have the same time-proven closure: just press the Velcro tabs together, squeeze excess air from the bag, roll down the top flap at

least three folds, and cinch the top and side straps down tightly. The Bills Bags seal best when packed full, so it's a good idea to match bag size to your most frequent need. All sizes of the Bills Bag have rustproof Fastex hardware and padded shoulder straps to make those long portages more bearable.

All of our waterproof bags (now being marketed and distributed by Water Sports International) are made of durable, waterproof, PVC-coated Dacron with leakproof, heat-welded seams. Beware of less expensive waterproof bags offered by other companies—many of these bags are unsupported vinyl and will not last under heavy use. All of our bags carry a one-year recreational use guarantee against defects in material and workmanship.

1 Bills Bag 3.8 This is our largest and most popular waterproof bag. The 3.8 cubic foot capacity (13" x 16" x 32" packed full) provides enough room for two persons' gear if carefully packed. The Original Orange is popular because it lets more light through, which helps in finding your gear, while Deep

Blue will look new for a longer time. Either way, you get the same quality 18 oz PVC-covered Dacron material, 2" padded shoulder straps, rustproof Fastex hardware, and the well-known Bills Bag roll-down watertight closure. **#420** Orange (ship wt 3 lb) **\$45.00**
#421 Blue (ship wt 3 lb) **\$45.00**

NRS Patch Kit Contains a 3" x 4" piece of clear vinyl, a small (1/5 oz) tube of Ynabond and directions for repairs on all vinyl products. Included with each of our Bills Bags. **#440** (ship wt 2 oz) **\$5.50**

2 Outfitter Bag In 1982, we designed and manufactured this bag especially for the commercial outfitter who demands an exceptionally durable bag at a reasonable cost. They were so popular with the outfitters that we are now making them available to all of our customers. The Outfitter Bag is made of extra-heavy 22 oz PVC/Dacron with leakproof, heat-welded seams. It features the traditional Bills Bag roll down top closure secured by top and side straps, but instead of padded shoulder straps, there's a convenient 1" web carry handle. It has a generous capacity of 3.8 cubic feet (measures 13" x 16" x 32" packed full), and comes in assorted colors (please let us choose one for you!). **#422** (ship wt 3½ lb) **\$38.00**

Ynabond Vinyl adhesive, good for repairing waterproof bags or attaching D-rings on Tahiti's, ABS canoes, etc. 2 fluid oz/tube. (Flammable; no parcel post or air shipments.) **#445** (ship wt 4 oz) **\$2.75**

Bag D's For adding tie-down points on your Bills Bag or Gear/Day Bag. 4" diameter, 18 oz PVC/Dacron patches with sewn on 1" welded D-ring. Available in Blue or Orange, use #445 Ynabond for attaching. **#441** Blue (ship wt 2 oz) **\$1.75**
#442 Orange (ship wt 2 oz) **\$1.75**

3 Bills Bag 2.2 For a more personal-sized gear bag, try the Bills 2.2. Measuring 10" x 15" x 25" packed full, this bag provides approximately 2.2 cubic feet of dry storage—enough room for one person's gear on most any trip. It's a handler size than the 3.8 Bills, but not as much bag for the money. Same closure method and quality materials as the 3.8 bag. Available in Deep Blue. **#424** (ship wt 2½ lb) **\$42.00**



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4 Bills Bag 1.2 This miniature version of the famous Bills Bag has all the quality features of its big brother, but with a 1.2 cubic foot capacity. It's just the ticket for bicycling or hiking or keeping your daily needs dry and at hand while rafting, canoeing, or sailing. Padded shoulder straps, roll-down watertight closure, 18 oz PVC-coated Dacron material, measures 7" x 12" x 25" packed full. Available in Deep Blue. **\$37.00**
#426 (ship wt 2 lb)

5 River Duffel We think you will find our new River Duffel to be very handy on your next raft trip or rainy car camping adventure. Modeled after the "luggage-style" duffel bags, it is built of the same high quality PVC/Dacron waterproof material as the Bills Bags. The River Duffel has plenty of room for the extra clothes and daily necessities of two people or it works great for keeping your pots, pans, and other kitchen gear organized and in one place. Because the simplified roll-down, snap closure is not designed to be watertight, you may want

to keep certain items in Stuff or Tuff Sacks within the River Duffel. This versatile bag measures 18" W x 22" L x 14" H when packed full, and has a convenient 1" web carry handle. **\$20.95**
#427 (ship wt 2 1/4 lb)

6 Stuff Sacks Stuff Sacks make economical ditty bags for organizing all those items, little and big, that you need on a trip. Stow your gear in the Stuff Sacks, then put the sacks into one of our larger Bills Bags for maximum protection. Two of the large Stuff Sacks will fit side by side in the 3.8 Bills Bag, making it easy to sort gear at the end of the day. Stuff Sacks are not completely waterproof when immersed, but do provide excellent protection from rain and spray. Constructed of 10 oz PVC laminated nylon with heat sealed seams, the Stuff Sacks feature a convenient roll-down Velcro closure that folds back on itself to snap shut with a Fastex buckle. Available in three sizes: small (5 1/2" x 5 1/2" x 14"), medium (6 1/2" x 6 1/2" x 22"), large (7 1/2" x 7 1/2" x 28"). Available in Blue.
#430 Sm (ship wt 8 oz) **\$8.95**
#431 Md (ship wt 12 oz) **\$11.95**
#432 Lg (ship wt 1 lb) **\$12.95**

7 Tuff Sacks If you need a bag as tough as the Bills Bag, but with the convenient size and closure system of the Stuff Sack, then we have the bag for you—the Tuff Sack. Tuff Sacks come in four sizes: extra-small (4 1/2" x 4 1/2" x 12"), small (5 1/2" x 5 1/2" x 14"), medium (6 1/2" x 6 1/2" x 22"), and large (7 1/2" x 7 1/2" x 28"). For 1983, all the Tuff Sacks have rounded bottoms to decrease abrasion. The sturdy fabric is 18 oz PVC/Dacron, and the roll-down closure has the convenient Fastex buckle that's a fastener and handle all in one. This closure system may not be completely watertight if the Tuff Sack is immersed, so you may want to double bag certain items. These bags are great for organizing your gear within a larger Bills Bag. For quick access to all those daily necessities—just snap them around a D-ring patch, frame, or canoe thwart. For cross-country skiing, snap the extra-small Tuff around your belt to hold your wax kit. Extra-small Tuff available in Orange; small, medium, and large Tuffs available in Blue.
#434 XSm (ship wt 8 oz) **\$9.95**
#435 Sm (ship wt 12 oz) **\$11.95**
#436 Md (ship wt 1 lb) **\$15.95**
#437 Lg (ship wt 1 1/2 lb) **\$18.95**

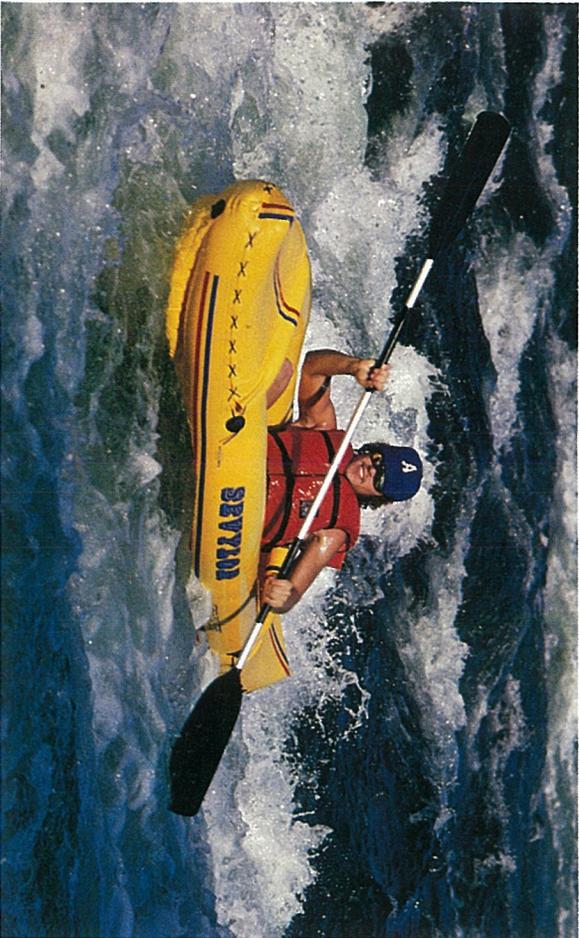
8 NRS Gear/Day Bags These river bags offer waterproof storage to the budget-minded sportsman. Both the Gear and Day Bag feature a patented watertight slide closure, flat-envelope style construction, two corner tie-down grommets, and 18 oz PVC/Dacron material. The Day Bag has a 12" opening and is 17" long with the closure in place; Gear Bag has a 20" opening and is 30" long. Available in Blue.
#428 Gear Bag (ship wt 2 lb) **\$19.95**
#429 Day Bag (ship wt 1 lb) **\$12.95**



(Photo by Warren Morgan)

1981 American Himalayan Whitewater Expedition





Tahiti on Selway

K-79 Tahiti Hopping haystacks in a K-79 Tahiti is about as much fun as getting wet can get. The Tahiti seats two, but most average sized adults find the Tahiti most responsive if paddled solo. The Tahiti can carry up to 380 pounds, and is designed and constructed to float you dependably and enjoyably through a lot of rapids.

The Tahiti's tricks can be mastered quickly; it's more responsive than a canoe and more stable than a kayak. With just a bit of practice you'll be tackling lively stretches of whitewater, catching the back-eddies like a pro, and perhaps even surfing standing waves. The Tahiti's also great for paddling across the river to a secluded picnic spot, or silently gliding across a mountain lake to your favorite fishing hole.

This inflatable packs down to a compact 11" x 11" x 22" bundle and weighs in at just 21 lbs. Fully inflated it measures 10'8" x 2'8" with 9 1/2" diameter tubes. Sevylor builds the Tahiti out of tough 20 gauge PVC material, electronically welding all the seams. For safety's sake there are three separate air chambers and a built-in inflation gauge. High-volume Boston valves in the main tubes make inflation quick and easy. Two inflatable/adjustable seats round out the design. This boat is backed by a one-year

guarantee against defects in workmanship and materials. Best yet, the price just can't be beat. The Tahiti's versatility is only matched by its economy!

#702 (ship wt 22 lb) **\$160.00**

Tahiti Paddler's Package We've put together a package featuring the K-79 Tahiti, our Economy Foot Pump, the 8 ft Carlisle Breakdown Paddle, and our Vinyl Repair Kit. This combination will have you scooting through the rapids sooner than you can imagine and save you \$10.00

#703 (ship wt 28 lb) **\$200.00**

Vinyl Repair Kit Useful for patching PVC inflatables (i.e., Tahitis, Sea Eagles), waterproof bags, or any type of vinyl product. Contains 2 oz tube of Wynabond and 180 sq inches of clear vinyl. (Flammable; no parcel post or air shipments, please.)

#714 (ship wt 4 oz) **\$3.25**

Economy Foot Pump Our medium volume plastic foot pump includes a 40" plastic hose and a 3 part adapter/nozzle. An inexpensive, reliable pump that we recommend for use with the Tahiti or Sea Eagle, as well as our own Otter and other small inflatables. (Pictured on p 13.)

#223 (ship wt 2 1/2 lb) **\$17.50**

We're pumped-up about inflatables! As a class, they offer the buoyancy of rafts, the excitement and responsiveness of a canoe or kayak, and an affordability and convenience that hard-shell boats just can't match.

An inflatable is easy to tote by airplane, auto, bike back, horseback, or your back. This makes an inflatable the perfect boat to use when working your way into small mountain lakes, hiking up a wild river to ride it on out, or just hauling around in your car so it'll be available when the mood and opportunity comes knocking. These boats are so light

and transportable, even when inflated, that you can run your favorite rapids, haul the boat out of the water and head upstream to do it again and again.

We offer a wide variety of inflatables, all of them good boats. Depending on whether you want a boat primarily for whitewater or mostly for lazy floating, how sturdy you want it to be, and how much money you want to invest, your choices range from the versatile, economical K-79 Tahiti to the amazing Semperit Dolphin II. Whichever boat you choose, you won't be sorry you went inflatable!

8 Ft Carlisle Breakdown Paddle

Carlisle's 8 ft Breakdown Paddle weighs a half pound less than previous models, thanks to a newly developed polypropylene used in the blades and shaft cover. This means less padding, better maneuvering ability, and less of a load to carry if you are using it as a spare paddle. The 8" x 20" blades are still tough, durable, and reinforced with a full-length aluminum insert. You'll find its 1-1/8" diameter polypropylene-covered aluminum shaft is more pleasant for all day use than a cold, bare metal shaft. The sliding push button joint locks the paddle halves together securely in use, yet opens easily when you take the paddle apart for storage or transport. Bright yellow blades with blue shaft, weighs 3 lbs 8 oz. To convert your 8 ft Carlisle to a pair of 60" canoe paddles, use the #718 Short Carlisle Adapter Handles.

#717 (ship wt 4 lb) **\$29.95**

Short Carlisle Adapter Handles A

shorter version of the #606 Carlisle adapter for converting the 8 ft or 9 ft double-bladed Carlisle paddles into a pair of single-bladed paddles.

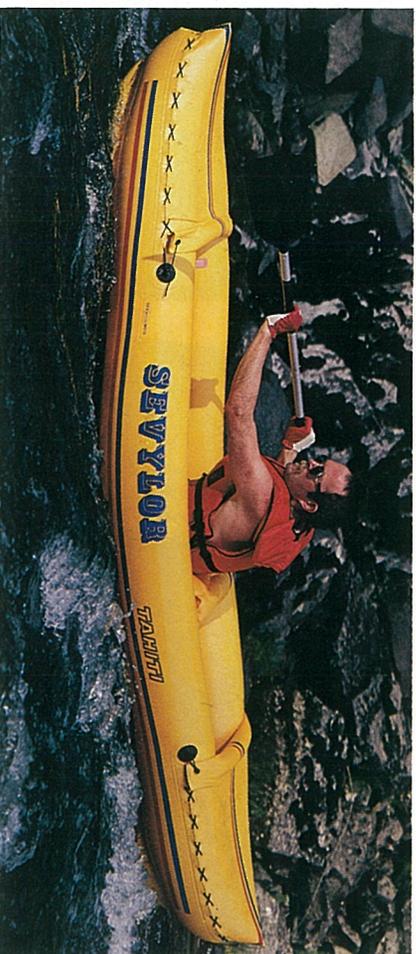
#718 (ship wt 1 1/2 lb) **\$9.95 pr**

8 Ft Mohawk Breakdown Paddle

Mohawk Adapter Handles
A lightweight (3 lbs 2 oz) take-apart double-bladed paddle with an anodized aluminum shaft and heat-shrink vinyl grips. Black, flexible ABS blades measure 8" x 20" and are strengthened by a metal insert. The swaged center joint locks securely with a spring-loaded ball and allows you to take the paddle apart for easy transport or storage. Use the #716 Mohawk Adapter Handles to make one 54" and one 58" T-grip canoe paddle.

#715 Paddle (ship wt 4 lb) **\$29.95**
#716 Handles (ship wt 1 1/2 lb) **\$9.95 pr**

Tahiti on Selway



Cherokee The Campways Cherokee is designed and manufactured strictly for serious river-running. The material used in the Cherokee is the same as that used in Campways River Rider rafts: 35 oz, 420 denier, 25% Hypalon. The Cherokee's extra width and smooth, flat bottom make it the most stable inflatable kayak that we sell. The inflatable thwart adds rigidity and acts as a backrest for the paddler.

The Cherokee features a ¾ length removable inflatable floor, inflatable bow and stern covers, and two main air chambers with military valves. The #706 Cherokee has an 840 denier floor and measures 9'10" L x 3' W with 11" tubes. The #707 Cherokee II is Campways new two person model with two thwarts and an extra heavy-duty 1200 denier floor; it measures 11'4" x 3'4" with 11" tubes. Please note: at press time, it was not known whether the 1983 Cherokee would include the inflatable seat as pictured.

- #706 Cherokee (ship wt 40 lb) **\$475.00**
- #707 Cherokee II (ship wt 50 lb) **\$550.00**

Sea Eagle 330

The Sea Eagles offer many of the same design features as the Tahiti: a ribbed inflatable floor, three main air chambers, and inflatable seats: one of which is built in. Whether you are flashing through a fast section of rocks or leisurely searching for the biggest tuna in the pond, the Sea Eagles will do the job.

The 330 is as responsive and maneuverable as a Tahiti, but more durable. It will seat two with its additional adjustable seat, but handles best when paddled solo. Its 11'2" x 2'9" dimensions allow a 500 lb weight capacity, and its 30 gauge PVC provides strong seams and resistance to punctures. Weighing 29 lbs, the 330 packs down into a bundle 9" x 19" x 27".

The 370 is your boat if you're searching for a boat that's stable, strong as a packhorse, and as sturdy as any PVC boat on the market. Its length makes it a little less maneuverable in tight corners, but the ribbed floor makes it track well while crossing calm water. Its 12'5" x 2'9" size provides a large carrying capacity of up to 750 lbs, and the 33 gauge PVC construction provides maximum durability. Two additional adjustable seats allow you to carry three people, or more comfortably, two people and a gear bag. The ¾" screw-type one-way valves in the three main air chambers make for rapid inflation. The 370 weighs 35 pounds and packs to a 12" x 24" x 30" package.

- #704 Sea Eagle 330 (ship wt 32 lb) **\$240.00**
- #705 Sea Eagle 370 (ship wt 38 lb) **\$280.00**

Dolphin The Dolphin's materials, workmanship, and design surpass any other boat of its kind; we think it's the best inflatable on the water today.

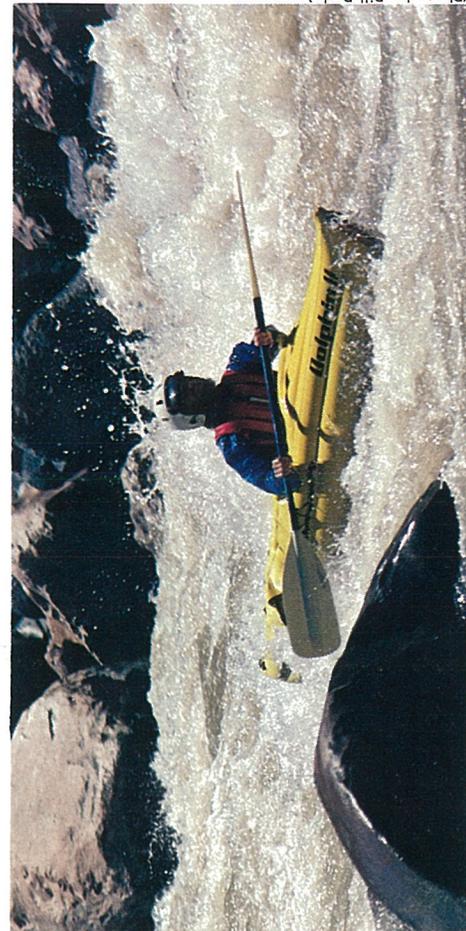
The key to the Dolphin's performance is its sleek hull design and fine-line wood-reinforced bow. This design allows for good speed and solid directional stability—a big plus in flatwater touring. Its ribbed tube design and the tough Hypalon/polyester material allow normal inflation up to 2.8 p.s.i., providing rigidity when waves try to collapse the boat. Coupled with this, the three large air chambers and seven smaller air chambers make the Dolphin practically unsinkable.

Longer and leaner than most inflatables, the 12' long by 2'2" wide Dolphin is a good boat for one-person expeditions along almost any waterway in the world, or great for two folks' daytripping. When two people take it out, the Dolphin's inflated rear deck cover folds down into a comfortable seat for the second paddler.

Deflated, the Dolphin packs down to a portable 26" x 22" roll that weighs only 36 lbs. Fly it in, haul it in, or pack it in yourself; the Dolphin will get you out.

This boat is highly abrasion and puncture resistant....proper care and maintenance will ensure that it will carry you through years of trouble-free action, and we guarantee its performance will be a real pleasure!

- #708 (ship wt 40 lb) **\$600.00**



Dolphin in Grand Canyon

(Photo by Bill Parks)



(Photo by Bill Woolston)

Guide To Inflatable Canoes and Kayaks
William Sanders has written a wonderfully entertaining how-to book covering all aspects of inflatable boating, from daytripping to week-long vacations. This is the most informative book ever written about inflatables and is a must for the new boater. 218 pages. **#554** (ship wt 8 oz) **\$59.95**

PADDLES

1 Harmony Paddle The Harmony is a relatively new paddle on the market, but is already widely accepted as an excellent big-water or slalom kayak paddle. Its radical spoon blade (right hand control) is great for precise maneuvering, and the small blade area (7½" x 18") lessens the risk of shoulder injury when bracing in turbulent water. The curved blades

are constructed of epoxy-impregnated fiberglass cloth and feature an internally laminated aluminum tip for greater durability. The oveled pole vault type shaft flexes slightly and helps absorb shock. This fine paddle is available in 200 cm, 204 cm, 208 cm, and 212 cm lengths (78¾" to 83½"). While the Harmony paddle weighs 2 lbs 10 oz in the 208 cm length, the UPS Blue Label shipment weight for the Harmony is 25 lbs due to its length. No parcel post shipments on the Harmony paddle. **#600-00,04,08,12 (ship wt 25 lb) \$109.95**

2 Iliad Paddles The Iliad paddle has proven itself unexcelled in quality and durability over its many years in existence. Mine has served me faithfully for eight years, and I expect it will for at least another eight. The aircraft aluminum shaft is oveled to help you position your hand in an eskimo roll and coated with a non-slip vinyl for a sure grip in the coldest water. The blades are made of a pressure-molded, chip resistant fiberglass, and measure 8½" x 22". The Spoon Blade Iliad (with right hand control) has a slight dish in the blade for a little extra power per stroke. For a spare paddle on wild river expeditions, go with the Iliad Take-Apart paddle. It features a very secure watertight joint held in place by a recessed Allen screw (wrench included) and stows easily under the stern float bags.

Whichever Iliad you use, you'll have yourself a trouble-free paddle for a long time. All three versions are available in 82", 84", and 86" lengths. While the 84" length weighs 3 lb 6 oz in the Flat, 3 lb 8 oz in the Spoon and 3 lb 12 oz in the Take-Apart, the UPS Blue Label shipment weight for the one piece Iliads is 25 lbs due to their length. Unfortunately, we are not allowed to ship one piece Iliads by parcel post.

#602 Iliad Flat (ship wt 25 lb) \$99.95
#603 Iliad Spoon (ship wt 25 lb) \$99.95
#604 Iliad Take-Apart (ship wt 6 lb) \$109.95

7 ft Carlisle Breakdown Paddle An excellent spare paddle, Carlisle has reduced its weight by 8 oz to 3 lbs 4 oz by using polypropylene in the blades. This new material is more flexible as well, lessening the risk of damage from sudden impact. The blades measure 8" x 20", and the non-ovaled shaft features a secure slide-lock push button joint. Use the #606 Long Adapter Handles to convert this paddle into two T-grip 60" canoe/raft paddles, or two 54" paddles with the #718 Handles.

#605 Paddle (ship wt 4 lb) \$29.95
#606 Long Adapters (ship wt 1½ lb) \$9.95pr



HELMETS

Please use the following head sizing chart when selecting your helmet. Measure around your head above the brow with a cloth tape, then convert inches to the correct size: 20-3/8" = 6½; 21-1/8" = 6¾; 22" = 7; 22¾" = 7¼; 23½" = 7½.

3 Cooper "2000" Helmet An adjustable helmet featuring a tough, resilient polyethylene shell and a high-density Absorbex foam liner. One size fits 6-5/8 to 7-3/4—simply loosen four screws, then fit the helmet to your head and tighten the screws. A perfect fit even when you choose to wear a wetsuit hood. Approved by the Canadian Standards Association and the Swedish Ice Hockey Federation. Offered in gold and blue; one size fits all.

#635 Gold (ship wt 1½ lb) \$29.95
#636 Blue (ship wt 1½ lb) \$29.95

4 Cooper "300" Helmet Cooper's economy helmet, offering more protection than any other helmet in its price range, features an injection molded Lexan shell and a lightweight molded polystyrene liner for good shock absorption. Includes comfortable snap-on web chin strap and stick-on sizing pads for a custom fit. Approved by the Canadian Hockey Association and the Swedish Ice Hockey Federation. Sizes: XS (6-3/8 to 6½), S (6½ to 6-7/8), M (7 to 7-3/8), L (7½ to 7-3/4). Offered in white.

#638-XS,M,L (ship wt 1½ lb) \$19.95

5 Pro-Tec Helmet Lightweight, secure-fitting helmet with a plastic shell and removable foam liner to ensure comfort and protection. Drain and ear openings in the molded shell complete the basic design. Full protection and outstanding comfort make this a fine whitewater helmet. Includes chin strap. Sizes: S (up to 6¾), M (6-7/8 to 7-1/8), L (7¼ to 7½), XL (7-5/8+). Offered in yellow, red, and blue.

#632 Yellow (ship wt 1½ lb) \$29.95
#633 Red (ship wt 1½ lb) \$29.95
#634 Blue (ship wt 1½ lb) \$29.95

SPRAY SKIRTS

Please take note of the cockpit size limitations in the spray skirt description. To select the proper model spray skirt for your boat, measure under the kayak cockpit rim with a cloth tape. Don't be discouraged if you have trouble getting the spray skirt to stay on your boat—just tie the bungee cord a little tighter and try it again. It takes a while for a new spray skirt to conform to the particular shape of a cockpit.

Surfer House Spray Skirt A 3/32"
 nylon/neoprene skirt which fits the Perception Quest or other kayaks with cockpits measuring 72" or less. It features sewn and glued seams and bungee drawcord. Waist sizes: S (up to 30"), M (31" to 35"), L (36" to 42"), XL (42"+). **#622-S,M,L,XL (ship wt 1½ lb) \$27.50**

Wilderness Spray Skirt This 3/32"
 nylon/neoprene spray skirt is very popular, and for good reason. Its rolled, sewn edges and meticulous workmanship make this a beautiful, well fitting cover. It will fit the Perception Quest or other kayaks with cockpits measuring 72" or less in circumference. This skirt features a spine pad in the back so you can roll in comfort. Waist sizes: S (up to 30"), M (31" to 35"), L (36" to 41"), XL (42"+). **#624-S,M,L,XL (ship wt 1½ lb) \$35.00**

6 Aquaterra Spray Skirt Our most popular skirt features rugged 1/8" nylon/neoprene with overlapped and glued seams. Because the material is thicker, you have to cinch the cockpit bungee up tight to get a good fit. It has a grab loop in front and a spine pad in the back so you can roll and paddle in comfort. It fits the Perception Quest or other kayaks with cockpits measuring 73" or less in circumference. Waist sizes: S (up to 30"), M (31" to 36"), L (37" to 42"), XL (42"+). **#626-S,M,L,XL (ship wt 1½ lb) \$36.95**

Aquaterra Maxi Skirt Same workmanship and construction as the #626 Aquaterra Spray Skirt but cut to fit kayaks with cockpits greater than 73" in circumference such as the Perception Mirage and Eclipse. Waist sizes: S (up to 30"), M (31" to 36"), L (37" to 42"), XL (42"+). **#627-S,M,L,XL (ship wt 1½ lb) \$37.95**



TOLL FREE ORDER LINE
800-635-5202

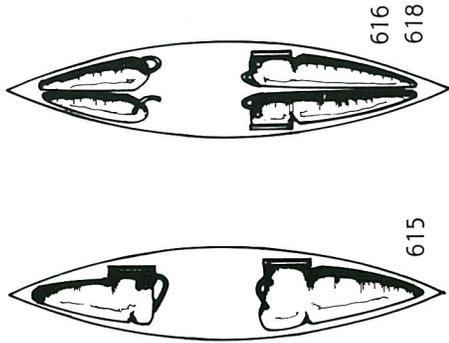
FLOTATION

All kayaks should be equipped with float bags to provide flotation should your boat capsize and to give support to the deck under the pressure of severe hydraulics. Fiberglass boat interiors should be sanded smooth to avoid the possible puncture of a float bag. Remember to slightly under-inflate your float bags to allow for hot air expansion and water pressure on the deck. Aquaterra is now offering their well known non-storage flotation systems under the name of "BUOYANT FORCE"; these bags have proven to be among the most reliable on the market. For most recreational boating, Buoyant Force vinyl float bags are entirely satisfactory. If you plan on extended kayak touring, you will need one of Voyageur's quality flotation/storage systems.

W Buoyant Force Float Bags These are good quality, economical, non-storage flotation bags for kayaks without center pillars. Tan colored, 15 mil vinyl bow and large stern bags with inflation hose, large deflation valve, and heat-sealed seams. Set of two bags weighs 2 lbs 7 oz. **#610 (ship wt 3 lb) \$25.00 set**

W Buoyant Force Split Float Bags This four piece non-storage flotation set is designed for kayaks with center pillars. The two bow bags and two large stern bags are made of quality tan colored 15 mil vinyl with heat-sealed seams. The bow bags come with inflation hoses; each stern bag has an inflation hose and large deflation valve. Set weighs 2 lbs 14 oz. **#611 (ship wt 3 lb) \$32.00 set**

Ethafoam Blocks Kayakers use ethafoam for seats and pillars, rafters for seats and floor protection, canoeists for extra flotation. Blocks measure 2" thick x 12" wide x 54" long and weigh only two lbs each. You'll need two blocks for a full kayak pillar system. **#647 (ship wt 2 lb) \$15.00 blk**



Voyageur's Sto-Floats For kayaks without center pillars, this is my first choice for a flotation storage system. Voyageur's patented watertight slide closure is very resistant to deck pressure and allows convenient access to your gear. Sturdy blue 20 mil vinyl and heat-sealed seams give many years of dependable service. The set weighs 4 lbs 9 oz and includes one bow storage bag with inflation hose, and one large stern storage bag with inflation hose and rapid deflation valve. **#615 (ship wt 5 lb) \$45.00 set**

Voyageur's Ultralight Split Sto-Floats Constructed from high quality 210 denier urethane coated nylon, this four bag set is nearly three pounds lighter than Voyageur's 20 mil vinyl split sto-floats. These storage/flotation bags offer the performance-minded kayaker a great method of reducing the total cargo-kayak weight on unsupported trips. The two bow bags are equipped with 36" inflation hoses and are just for flotation. The two stern bags feature inflation hoses, rapid deflation valves, and Voyageur's well known slide closures to provide waterproof storage for your gear. Four bag set weighs only 2 lbs 9 oz. **#618 (ship wt 3 lb) \$95.00 set**

8 Perception T-Shirt Features a colorful whitewater kayaking scene on a 100% cotton Hanes Beefy T-shirt. Assorted colors; please let us choose one for you. **#506-S,M,L,XL (ship wt 8 oz) \$7.50**

9 Voyageur's Split Sto-Floats This set offers storage in the two stern bags. The bow bags are just for flotation. Designed for boats with center pillars, they have the same high quality construction as the #615 Voyageur's bags. The set weighs 5 lbs 6 oz. **#616 (ship wt 6 lb) \$50.00 set**

10 10" Foot Braces These low flange Yakima foot braces are constructed of aircraft grade aluminum, have a full 7" adjustment range, and attach easily to your kayak with two screws each (included). Neoprene-padded foot rest has a spring release for easy one-hand adjustment. The foot rest channels have openings to prevent build-up of sand and grit. **#646 (ship wt 1 1/2 lb) \$21.50 pr**

BOOKS

Wildwater How exciting to find an author, Lito Tejada-Flores, who seems like a close friend—enticing you with his love of rivers and then leading you step-by-step to intermediate skills and beyond. Emphasizes kayaking but includes rafting, too. 329 pages. **#557 (ship wt 1 lb) \$8.95**

Whitewater Handbook The original edition of this kayaking primer by John Urban contains excellent chapters on river running technique. Walley Williams' expanded edition includes updated information on safety and equipment as well as "second opinions" on paddling technique. Detailed descriptions and numerous photos and drawings make this book a must. 197 pages. **#558 (ship wt 8 oz) \$4.95**

Boatbuilder's Manual (Charles Walbridge, ed.) Covers all the steps and procedures for fiberglass canoe and kayak building. This book is a must if you are going to build your own boat or if you are just interested in the art of boatbuilding. 114 pages. **#566 (ship wt 8 oz) \$6.00**

Does the Wet Suit You? Here are Whit Deschner's "confessions of a kayak bum," and for someone who "trembles at the thought of work," he works pretty hard at kayaking. Read this hilarious book aloud on your next float trip; your river companions will never forgive you. 96 pages. **#597 (ship wt 8 oz) \$6.50**



Canoe Paddles A quality wood paddle can mean the difference between fun and drudgery when you're paddling all day long. What length to buy? It depends on several considerations (height, arm length, paddling position, etc.), but mostly on what feels best to you. From experience, many people find that the shorter lengths are right for them. We sell Sawyer paddles made in Rogue River, Oregon. They feature quality workmanship and materials, including fiberglass-covered blades with hardwood tips, comfortable uni-grip handles, and oval laminated shafts. For Carlisle and Mohawk paddles, see Rafting Paddles, p 12.



1 Sawyer Canoe Paddle The SCT-8 has a laminated 7½" wide reinforced blade and a laminated oval shaft, both coated in a durable marine finish. Sturdy enough for use in all but the most demanding whitewater. Lengths: 54" or 60".
#655-54" or 60" (ship wt 2 lb) **\$27.50**

Sawyer Whitewater Paddle This is Sawyer's top-of-the-line wooden paddle designed for the serious whitewater open canoeist or C-1 paddler. The 12-piece laminated blade measures 8½" x 22", is ¼" thick, and has a special fiberglass tip reinforcement that significantly lessens splintering. Lengths: 54" or 60".
#656-54" or 60" (ship wt 2 lb) **\$45.00**

2 Sawyer Bent Shaft Paddle Super for flatwater paddling, though they may take a bit of getting used to because of the difference in feel. Bent to a 15° angle, with a laminated 14-piece reinforced blade measuring 9" x 21". Lengths: 52" or 54".
#657-52" or 54" (ship wt 2 lb) **\$40.00**

Carlisle Bent-Shaft Paddle The unique shallow spoon blade of this well-designed bent shaft paddle gives excellent power to each stroke with very little drag. The blade is reinforced with marine aluminum, and the polyethylene-covered aluminum shaft locks into the blade insert with a sliding push-button that disassembles easily. Brown blade and shaft, T-grip handle. Lengths 48", 52", and 54".
#658-48", 52", or 54" (ship wt 2 lb) **\$27.50**

9 ft Carlisle Breakdown Paddle Now Carlisle's breakdown paddle comes in a 9 ft length that's excellent for solo canoeing and weighs a reasonable 3 lbs 12 oz. For more information, see the 8 Ft Carlisle Breakdown Paddle (#717) on p 18. Use the #718 Short Adapter Handles to make a pair of 66" paddles.
#659 (ship wt 4 lb) **\$29.95**

Blue Hole T Shirt Idyllic canoeing scene on 100% cotton Hanes Beefy T shirt. Tall people note: this shirt is cut generously long. Sizes: S, M, L, XL.
#508-S,M,L,XL(ship wt 8 oz) **\$8.95**

Canoe Floats Canoe Floats are designed to outfit open canoes with complete flotation for running whitewater. Float bags displace their volume in water to help lessen the possibility of swamping. Should the worst happen and you dump your boat in a rapid, retrieval is much easier because your boat is filled mostly with air, not water! Voyageur's canoe floats are constructed of 20 mil blue vinyl and are equipped with 8" inflation hoses, rapid deflation valves, and tie-down grommets. All Voyageur's products come with a lifetime guarantee against defects in workmanship and materials. Buoyant Force canoe floats are manufactured by Aquaterra in 15 mil tan vinyl and are equipped with 18" inflation hoses, rapid deflation valves, and tie-down grommets. Aquaterra guarantees their bags against defects in workmanship and materials for one year.

Buoyant Force Canoe Float This is a big 3' x 4' bag to fill the center of your canoe with extra flotation. Fits most canoes, except those with center upright bracing.
#660 (ship wt 3 lb) **\$25.00**

Buoyant Force Maxi Splits Set of two 15 mil floats each measuring approx. 24" x 60" for center flotation on canoes equipped with upright bracing.
#662 (ship wt 5 lb) **\$32.00 set**

Buoyant Force Solo Floats Set of two vinyl bags tapered so they fit snugly into the bow and stern compartments of most canoes. Each bag measures 37" (W) x 60" (L).
#665 (ship wt 5 lb) **\$45.00 set**

Voyageur's Maxi Splits A pair of large rectangular bags that provide center flotation. These floats fit canoes with center upright bracing. Dimensions: 22" (W) x 68" (L). Set includes two bags.
#663 (ship wt 6 lb) **\$45.00 set**

Voyageur's Solo Floats One of these large, tapered bags will fill the bow section of most 16' or 17' canoes completely. With another bag placed in the stern you have complete flotation for solo paddling. Dimensions: 15" (widens to 36") x 60" (L). Set includes two bags.
#664 (ship wt 6 lb) **\$54.00 set**

Voyageur's End Bag Floats These small, tapered bags are used for bow and stern flotation when paddling with a partner. They fit most ABS and fiberglass canoes (but don't fit boats with built-in flotation chambers, like aluminum canoes). Dimensions: 14½" (widens to 24") x 32" (L). Set includes two bags.
#666 (ship wt 3 lb) **\$31.00 set**

The Path of the Paddle For those who love canoes and canoeing, Bill Mason's *Path of the Paddle* is a delight. His lively prose entertains even as it instructs and is complemented by numerous photographs (many in color) and diagrams. There's much more than just the instructional here, for he lovingly captures the beauty of the canoeing experience in words and pictures that will make you yearn to be on the water again. A beautiful book, highly recommended.
Hardbound, 200 pages.
#561 (ship wt 2 lb) **\$24.95**

You, Too, Can Canoe The title does not do John Foshee's book justice. It is an encyclopedia of information on virtually every aspect of canoeing. Numerous photos and drawings bring the concepts to life. Hardbound, 435 pages.
#562 (ship wt 2 lb) **\$9.95**

Complete Wilderness Paddler Written by James Davidson and John Ruggie, this book is an entertaining trip narrative as well as an instructional handbook for the novice. Very enjoyable reading!
Hardbound, 265 pages.
#565 (ship wt 1½ lb) **\$12.95**

Strippers Guide to Canoe Building David Hazen is a master in the art of building cedar strip canoes. In his manual, he entices you into his creative experience and then provides the notes and plans for the project. 93 pages, 3 pattern sheets.
#567 (ship wt 1 lb) **\$10.95**

**Canoe Routes: British Columbia
Canoe Routes: Yukon Territory
Canoe Routes: Northwest Oregon**

Richard and Rochelle Wright describe 100 trips in British Columbia and 21 premier rivers and lakes for wilderness enthusiasts in the Yukon. Philip Jones does the same for 50 different flatwater trips in the Willamette Valley, lower Columbia, and Coastal areas of Oregon.
#585 B.C. 176 pp (ship wt 8 oz) **\$6.95**
#586 Yukon 112 pp (ship wt 8 oz) **\$6.95**
#587 NW Oregon 157 pp (ship wt 8 oz) **\$6.95**

Neoprene Knee Pads If you like to paddle while kneeling, try a pair of these. They lessen knee strain considerably and don't cut into the backs of your legs. Comfortable 1/8" nylon/neoprene with a sewn nylon patch.
#672 (ship wt 8 oz) **\$15.00 pr**

Canoe D-Rings Steel welded D's sewn on to vinyl patches of 22 oz gray PVC/dacron. The Canoe D has 1" welded D-ring on 4" patch; Super D has 1¾" D on 6" patch and makes a perfect thigh brace attachment. Both are useful for tie-downs on ABS canoes, Tahitis, vinyl bags, etc. Attach with #676 Vynabond.
#674 Canoe D (ship wt 2 oz) **\$2.00**
#675 Super D (ship wt 4 oz) **\$3.50**

Vynabond The adhesive of choice for vinyl D-rings. (Flammable; no parcel post or air shipments, please.)
#676 (ship wt 3 oz) **\$2.75**



BOOKS

A Guide to Three Rivers A lot of research went into this mile by mile guide to the history, geology, flora, and fauna of California's Stanislaus, Tuolumne, and South Fork of the American. This is not a guide to the rapids of these rivers, but makes for excellent campfire or easy-chair reading. Includes some commentary concerning the current hydroelectric controversy on these rivers. Softbound, 295 pages, edited by John Cassidy. **\$7.95**
#570 (ship wt 1 lb)

Snake River Guide This guide by Verne Huser and Buzz Belknap is rich in lore and valuable river information. It covers the upper Snake from Yellowstone's south entrance through Jackson Hole and Alpine Canyon to the Idaho state line. 72 pages. **\$6.95**
#579 (ship wt 1/2 lb)

Floater's Guide to Montana Hank Fischer's all-purpose guide will interest canoeists, kayakers, rafters, and especially fishermen. Not only does he provide maps and river guides but he also includes wildlife lore and conservation information. 152 pages. **\$6.95**
#579 (ship wt 12 oz)

The Middle Fork and the Sheepeater War
River of No Return
Snake River of Hells Canyon Written by John Carrey and Cort Conley, with help from Ace Barton on the Hells Canyon book, each of these books combines fascinating local history with a river guide. The **Middle Fork** includes a narrative of the Sheepeater Indian War while the **River of No Return** covers the Main Salmon from its headwaters to the confluence with the Snake. The **Snake** is covered from Hells Canyon to Lewistown, ID. **\$9.95**
#573 Middle Fork (ship wt 1 lb) **\$9.95**
#576 No Return (ship wt 1 1/2 lb) **\$10.95**
#577 Hells Canyon (ship wt 1 1/2 lb) **\$12.00**

Idaho River Tours
Oregon River Tours Two books by John Garren which include maps, river logs and photographs. **Idaho** covers all parts of the Salmon and the Hells Canyon of the Snake. **Oregon** has 13 river tours in that state. **\$5.95**
#572 Idaho (ship wt 8 oz) **\$5.95**
#580 Oregon (ship wt 1/2 lb) **\$6.95**

Guide to Oregon Rivers Compiled by the Willamette Kayak and Canoe Club, this guide covers 83 river trips—some not featured in any other guide. This is a good source for discovering new paddling tours. 116 pages. **\$5.00**
#581 (ship wt 6 oz)

John Day River Guide Arthur Campbell compiled a detailed river log and map embellished with historical notes. A valuable guide for river runners as well as history buffs. 90 pages. **\$9.95**
#582 (ship wt 12 oz)

Handbook of the Middle Fork
Handbook to the Rogue River
Handbook to the Deschutes James M. Quinn, James W. Quinn, and James King use a rich combination of ground and air photos, drawings, and detailed river logs to describe their favorite rivers. Each of their handbooks includes a mile-by-mile guide to the river's rapids with accompanying sections on river history, flora, and fauna. All spiral bound. **\$575 Middle Fork** (ship wt 1 1/2 lb) **\$15.00**
#583 Rogue (ship wt 1 1/2 lb) **\$12.00**
#584 Deschutes (ship wt 1 1/2 lb) **\$12.00**

1 Quik-N-Easy carriers feature two 1" zinc-plated steel tubes and four solid cast aluminum brackets with tube holders. The brackets are tightened directly on your rain gutter with a clever over-the-center latch that holds the carrier securely on your vehicle. Quik-N-Easy accessories allow you to outfit their carriers for a wide range of uses. Quik-N-Easy brackets and carriers work only on cars with rain gutters. Now available in a 48" bar size that's just right for smaller cars. **\$40.00**
#770 48" (ship wt 10 lb) **\$44.00**
#771 60" (ship wt 12 lb) **\$50.00**
#772 78" (ship wt 25 lb)

1" Adapter Bushings You'll need some of these if you wish to outfit your Quik-N-Easy rack with any of the Yakima accessories. **\$1.50 pr**
#773 (ship wt 1 oz)

2 Camper Brackets Here's the answer for those who want to build a rack but have a square-edged canopy. Includes four brackets. Drilling is required. (Bolts not included.) **\$20.00 set**
#775 (ship wt 2 lb)

3 Quik-N-Easy Brackets These carrier brackets have earned their reputation as the simplest and most durable car top bracket around. Made of high quality cast aluminum (rustproof) with plastisol-covered foot and gutter hooks to protect your car's finish. Install your own platform or crossmembers (2x4s work nicely), and you're ready to go. Set includes four brackets with all the necessary hardware. **\$26.50 set**
#774 (ship wt 4 1/2 lb)

4 Saddles A safe and practical way to carry your boat. Set of four neoprene-lined saddles that attach to the front and back bars of the Yakima carrier. Kayak Saddles conform to the shape of the hull; four saddles will cradle one boat, or two boats, if you use the Stacker. One set of four Canoe Saddles is needed per canoe. **\$18.50 set**
A#756 Kayak (ship wt 2 lb) **\$18.50 set**
B#757 Canoe (ship wt 2 lb) **\$17.50 set**

5 Canoe Straps Set includes two 7 ft straps and two 4 1/2" straps, all with fittings that slip onto the Q & E bars. The longer straps go over the canoe to buckle into the shorter straps for a secure attachment. **\$8.75 set**
#776 (ship wt 8 oz)

6 Gunnel Clamps Set of four clamps that slide over the tube of the carrier bar and tighten down onto the canoe gunwale to hold it firmly in place. (To avoid gunwale damage, padding is advisable). Makes an excellent high-strength system when used with bow and stern tie-downs. (Does not fit Yakima Carriers.) **\$8.00 set**
#777 (ship wt 1/2 lb)

7 Ski Clamps The Ski Clamp set includes two clamps with eye bolts, wing nuts and washers. Set holds one pair skis. (Does not fit Yakima Carriers.) **\$8.75 set**
#778 (ship wt 1 lb)

8 Yakima Products offers a full line of quality cartop carriers and accessories, all backed by a lifetime warranty covering defects in material and workmanship. Carriers include two 1-1/8" crossbars, four sets of non-slip "feet", and the patented Kevlok tie-down system. Each carrier has an approximate load capacity of 300 lbs and works equally well on cars with or without rain gutters. **\$65.00**
#751 54" (ship wt 8 lb) **\$70.00**
#752 66" (ship wt 25 lb)

9 Kayak Stackers A 20" aluminum upright that clamps to the carrier cross-bar. Stand your boat on its edge and secure it to the carrier crossbar and through the nylon tie-down loop at the top of the Stackers. Greatly increases the carrying capacity of your rack. **\$27.50 pr**
#755 (ship wt 2 1/2 lb) **\$27.50 pr**
#756 (ship wt 12 oz) **\$11.00 pr**

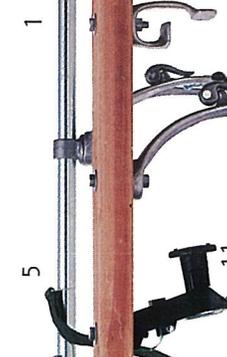
10 Multi-Post Set of two rubber-covered 4" aluminum uprights with adjustable rubber attachments to accommodate such things as skis, windsurfing masts, paddles, etc. One set will carry a pair of skis or up to three paddles. **\$36.50 set**
#761 (ship wt 5 lb)

11 Yakima Tower Yakima's Tower car-top system gives you a strong, yet lightweight, carrier that's specifically designed for better fit and less finish damage on today's cars. Made of glass-reinforced nylon plastic, the Towers are strong, corrosion-proof, and more shock-absorbent than metal. They clamp directly on to your car's rain gutters and tighten with a handy adjustment wheel for a secure fit. Bolt them to 2x4 wood crosspieces for a sturdy carrier. **\$37.50 set**
#763 (ship wt 4 lb)

Bicycle Mount The Bicycle Mount is a secure and well-designed system that fits on your carrier bars to transport ten-speed upright on the roof of your car, away from fenderbenders, thieves, and other hazards. Comes complete with instructions. **\$36.50 set**
#761 (ship wt 5 lb)

Kayak Hold-Down Straps Set of two flat rubber straps with vinyl-covered steel hooks, just the right size for kayak hold-downs. **\$5.00**
#758 (ship wt 1/2 lb)

Bow/Stern Tie Downs These "no-knot" tie-downs are an excellent way to secure long loads to the front and rear bumpers of your car. Consists of two 80" lengths of 1/4" nylon rope, each with a sliding aluminum tension adjuster, a flexible steel bumper hook on one end, and an aluminum grab hook for your boat on the other. **\$8.50 pr**
#759 (ship wt 2 oz)



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#761 (ship wt 5 lb)

Therm-A-Rest Mattresses The Therm-A-Rest mattresses are the finest portable sleeping pads we've seen. They feature a light, open-cell foam (Warm) in a coated nylon shell (durable). Just unroll them, open the valve, and they suck in the air! Give a few puffs if you want them a little firmer, then close the valve. The Expedition model is Therm-A-Rest's full size mattress at 72" x 20" x 1½", and I, for one, appreciate its luxury. It packs down to a portable 5" diameter roll. The Backpacker version measures 47" x 19" x 1½" and rolls down to only 4" in diameter. The optional nylon stuff sacks provide convenient storage for your mattress. Another option is the handy coupler kit which has two sets of nylon loops that attach two Therm-A-Rest mattresses together.

- #816 Expedition (ship wt 3 lb) **\$48.00**
- #817 Backpacker (ship wt 2 lb) **\$36.00**
- #818 Expedition Sack (ship wt 4 oz) **\$6.00**
- #819 Backpacker Sack (ship wt 4 oz) **\$6.00**
- #820 Coupler Kit (ship wt 4 oz) **\$4.00**

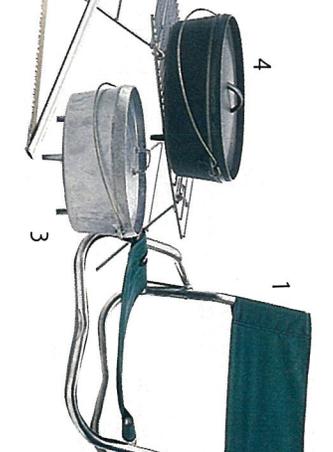
1 River Chair Here it is! One of the most sought after items in our catalog, the River Chair is at home on the river or at your backyard barbeque. It is constructed of sturdy, lightweight aluminum tubing with a durable knit polyester seat and back, and folds into a space-saving 24" x 20" x 6" package. With its contoured frame, the River Chair doubles as a canoe passenger seat. Keep an eye on your River Chair at camp—they seem to end up under someone else when you're not looking. **#852** (ship wt 3½ lb) **\$21.95**



2 Sling-Light Chair The Sling-Light is the Cadillac of folding camp chairs. Weighing no more than a 16 oz can of beer, the Sling-Light is constructed of aluminum alloy seamless tubing with a "sling" style ripstop nylon padded seat. The stable tripod design supports 250 pounds with ease and folds flat (27" L x 16" W x 1½" D) for easy transport. For the ultimate in lounging comfort, snap on the optional headrest. **#850** Chair (ship wt 1½ lb) **\$46.00**
#851 Headrest (ship wt 8 oz) **\$14.00**

3 Aluminum Dutch Ovens and Griddles A durable and very lightweight cookware which has a high tolerance for unusual cleaning methods (scrubbing with sand). The 12" Dutch Oven has 1½" legs and is great for main dishes. The 10" Dutch has no legs, but is the one to take when weight and space are critical. The Large Griddle measures 10" x 18", and the Small Griddle measures 10" square. Both come with a detachable lifting handle so you don't scorch your fingers. **#821** 12" Dutch (ship wt 8 lb) **\$35.00**
#822 10" Dutch (ship wt 6 lb) **\$24.00**
#824 Large Griddle (ship wt 4 lb) **\$16.95**
#825 Small Griddle (ship wt 3 lb) **\$11.95**

4 Lodge Cast Iron Dutch Ovens Lodge has been making their cast iron cookware since 1896, and like a good wine, these dutch ovens will do nothing but get better with age. Cast iron cookware is famous for its durability and excellent cooking qualities. The 14" oven has an 8 quart capacity and the 12" holds 6 quarts. Both ovens feature 1½" legs, ball carry handles, and a generous lip on the lid to hold the coals. Instructions for proper "seasoning" of your new dutch oven are included. With proper care, these dutch ovens will be in your family for generations. **#835** 12" (ship wt 22 lb) **\$44.00**
#836 14" (ship wt 28 lb) **\$55.00**



5 Camper's Grate Mirro makes this heavy gauge grate designed to get your cooking pots off the fire. The rungs are ¼" apart on one side (for burgers) and 2" apart on the other (for steaks). With the 11" legs folded up, you have a compact 24" x 12½" x 1½" package. **#830** (ship wt 8 lb) **\$15.00**

6 Scotch Box What a great ideal! A neat, clean, portable barbeque that saves your charcoal for next time. The Scotch Box resembles a tool chest (complete with carry handle and hinged lid) and has sturdy, detachable 4" legs. When the cooking is done, just close the lid and the fire goes out, saving the charcoal for the next outing. You are required to carry out ashes on many rivers, and the Scotch Box is perfect for this. It features a removable cooking grate and measures 19" (L) x 7" (W) x 7" (H). **#833** (ship wt 11 lb) **\$28.95**

7 Sun Showers A vinyl solar water heater which helps you pamper yourself with a warm shower in the middle of the wilderness. The Sun Shower holds 2½ gallons, and the Super Sun Shower holds 5 gallons. Both come complete with temperature indicator, hose, shower head, and on/off control. **#856** Sun Shower (ship wt 1 lb) **\$13.95**
#857 Super Sun Shower (ship wt 1½ lb) **\$18.95**



8 Water Sack This handy, lightweight, collapsible container holds two full gallons of your favorite beverage and its self closing spigot is designed for easy one-handed operation. Not thirsty? Try the Water Sack as a shower—or even as a pillow for a good night's sleep. The Water Sack has a durable outer sack of oxford cloth over an inner bag of double layered polyethylene. The inner polyethylene bag is larger than the outer, so it won't burst a seam from overfilling. At our low price of \$4.95 it's a piece of equipment you'll be glad to have with you. **#858** (ship wt 4 oz) **\$4.95**

9 Sven Saw This folding saw makes the chore of cutting the evening firewood a pleasure. The extra-sharp blade folds neatly into the aluminum handle for packing—no cutting edges exposed! Measures 21" x 2" x ½", when folded. **#844** Sven Saw (ship wt 1 lb) **\$10.95**
#845 Extra Blade (ship wt 8 oz) **\$3.95**

10 Gott Coolers Take along a Gott Cooler this summer, and while you bake in the sun, your lunch won't. Gott Coolers feature well designed freeze bottles that screw into the lid of the cooler—just fill them with your favorite beverage, freeze them, and when they are installed in the cooler, the cold air drops to keep your food refrigerated. Actually, the insulation in these coolers is thicker than in your refrigerator. On extended trips you will need to add a block of ice to guarantee cold food. The carry handles are molded for easy handling, the lid has a snap closure, and there is a convenient drain plug. The 80 quart model measures 34½" L x 16" W x 15" H, has three freeze bottles, two removable food trays, and will hold a weeks worth of food for most small parties. The 60 quart version measures 28½" L x 16¼" W x 16" H, has two freeze bottles, one food tray, and is just the right size for your weekend outings. Get a Gott—the adult lunchbox. **#880** 80 Quart (ship wt 25 lb) **\$90.00**
#882 60 Quart (ship wt 25 lb) **\$65.00**

151 Quart Igloo Cooler This granddaddy of ice chests is used by many commercial outfitters for large groups on long trips. It can hold almost 9 cases of pop, features a deep, removable food tray, and has strong rope and wooden handles. Don't plan on lifting it alone when it's packed full! 42-7/8" x 18-7/8" x 20-1/8". All white. Must be shipped motor freight (collect). **#884** (ship wt 36 lb) **\$250.00**

Aquaterra Dry Bag A single-walled 15 mil vinyl storage bag measuring 15" x 17", that's large enough to hold a change of clothing or a sweater. The 12" long fold-over lip secures with twist locks for an excellent watertight closure. Corner grommets are included for tie-downs. (Note: not designed nor recommended for use as a camera bag.) **#450** (ship wt 1 lb) **\$15.00**

Sima Sports Pouches Waterproof and floatable (up to 10 lbs in the Regular and up to 20 lbs in the Super), the Sima Sports Pouch is a convenient carryall for all kinds of valuables. It's made of 20 gauge PVC with an inner ziplock fold-down closure and Velcro-fastened flap. The Sports Pouch inflates to form a safety air cushion around the contents that lessens the possibility of impact damage. Comes with a 36" adjustable carry strap that can be snapped around a thwart or on to a D-ring. Available in Regular (12" x 14") or Super (17" x 17") sizes. **#454** Sports Pouch (ship wt 1 1/2 lb) **\$18.95**
#455 Super Sports Pouch (ship wt 2 lb) **\$24.95**

Map Case Clear 8 mil vinyl waterproof case with two corner grommets and ziplock closure. Measures 6 3/4" x 10". Great for maps and river guides. **#460** (ship wt 4 oz) **\$3.00**

Floater's First Aid Kit A necessary piece of equipment for any adventure or outing is a well equipped first aid kit, and the folks at Alpine Aid have used their years of wilderness experience and first aid training to develop this quality Floater's First Aid Kit. The kit contains Band-Aids, aspirin, salt and antacid tablets, gauze pad, antiseptic swabs, antibiotic ointment, elastic bandage, tape, moleskin, soap, single edge razor, needle, matches, and the "Survivut Manual", all in a waterproof polypropylene jar making it ideal for use by watersportsmen. **#865** (ship wt 10 oz) **\$14.95**

BOOKS

Rocky Mountain Kettle Cuisine Sheila Mills' Dutch Oven recipes are sure to make you the best cook on the river. Dozens of delicious ideas from breakfast to dessert, plus use and care of your aluminum or cast iron dutch oven. 91 pages. **#596** (ship wt 12 oz) **\$7.95**

River Camping In River Camping, Verne Huser shares with whitewater enthusiasts and armchair paddlers alike, the how-to of getting the most out of a river camping trip. Large format, beautifully produced, with over 150 photographs. 154 pages. **#560** (ship wt 1 lb) **\$12.95**

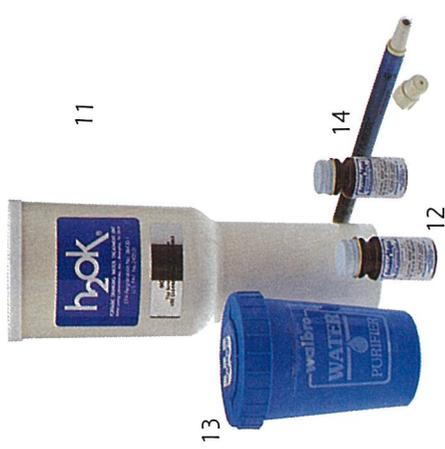
Ultralight Shut-Her-Dry Here's superior protection for your expensive camera. Voyageur's combined durable 200 denier urethane coated nylon with their easy open-and-shut slide closure to create the Shut-Her-Dry Bag. Inflatable double-walls provide flotation, protect the watertight inner chamber, and allow you to use the bag without reinflating it after each opening. The 12" x 12" x 3" chamber will hold a 35 mm camera and several lenses. The slide closure works quickly—no more fumbling around while that great picture disappears. The Shut-Her-Dry is bright yellow for good visibility and has four corner grommets for tie-downs. Comes with Voyageur's lifetime guarantee against defects in workmanship and materials. **#458** (ship wt 12 oz) **\$35.00**

Perception-Pouch Here is a nylon pouch cleverly designed with a double-thick vinyl lining for good watertight protection. It opens to an 8 1/2" x 5 1/2" x 1 1/2" waterproof interior and seals shut with a fold-down Velcro tab closure. The sewn-on belt loops enable you to slip the Pouch onto a lifejacket strap or belt. I've found the Pouch to be excellent for small personal items like wallets, watches, or Instamatic-sized cameras. **#463** (ship wt 8 oz) **\$13.95**

Aquaterra Camera Bag A reasonably priced, waterproof camera bag with a double-walled inflatable design that protects the contents in the generous 11" x 10" x 1 1/2" interior. It's made of sturdy, 15 mil vinyl with a fold-down top closure secured by twist locks; corner grommets are included for tie-downs. **#456** (ship wt 1 1/2 lb) **\$25.00**

17 Pelican Case We think the Pelican Case is the best waterproof case available today. Totally watertight, airtight, and dustproof, the lightweight, attractive, and durable (tough Thermal plastic) Pelican Case will float even with 40 pounds of equipment inside. As versatile as it is practical, the "Pluck 'n Fit" foam interior allows you to customize your Case for a wide variety of items, offering the ultimate in protection for camera and lens, or anything delicate that needs to be kept safe and dry in rough, wet conditions. The Pelican Case can be carried by its convenient built-in handle or with the adjustable shoulder strap. Interior dimensions measure 17 1/2" x 11-7/8" x 6 1/2". The Case is guaranteed for one year against defects in workmanship. Definitely a sensible investment for protecting that expensive camera. Now available in charcoal black or silver grey. **#466** Silver grey (ship wt 9 lb) **\$89.95**
#467 Charcoal black (ship wt 9 lb) **\$89.95**

18 Guard Box Pelican has added molded-in guards to their small watertight box to protect against damaged latches or accidental opening. Constructed of tough ABS plastic with a replaceable neoprene seal, the bright yellow Guard Box will float with up to four pounds inside. Guaranteed for one year against defects in workmanship. Interior dimensions: 3" x 4 3/4" x 7 1/2". With its new, optional 3" thick "Pluck n' Fit" foam insert, you can nest small, delicate objects protectively from shock and bumps—a great way to carry the new miniature 35 mm cameras. **#464** Guard Box (ship wt 1 1/2 lb) **\$13.95**
#465 Foam Insert (ship wt 1 lb) **\$4.00**



11 H2OK This high quality water treatment unit is used worldwide as an effective method of obtaining clean, fresh tasting water from questionable lakes, streams, or hotel faucets. The H2OK features a 6 micron filter, and when used with the iodine tablets (included), your worries about Giardiasis can be put to rest. Filtration time is about 12 min/qt, and the H2OK is good for about 2000 gallons use. EPA registered. **#860** (ship wt 1 lb) **\$29.95**

12 Potable Aqua Recent research has indicated that iodine tablets (Potable Aqua) are effective in destroying Giardia and their cysts as well as bacteria and other disease-causing organisms. Use 1 tablet/qt. Fifty tabs/bottle. EPA registered. **#862** (ship wt 2 oz) **\$3.25**

13 Walbro Water Filter A handy item that ensures bacteriologically suitable water with no waiting period. Just pour dirty water in the top, and clean water flows out the bottom. Compact, weighs only 3 1/2 oz, and will treat about 100 gallons. EPA registered. **#861** (ship wt 8 oz) **\$24.95**

14 Pocket Purifier This very compact, economical, and effective water purifier has been used and proven on many international expeditions. No tablets, no boiling—just put one end in the water, and sip from the other to have bacteriologically safe water instantly. The filters will swell up and prevent water from passing through before they lose their powers of purification—no guesswork! The Pocket Purifier has a usable life of 15-24 months. EPA registered. Only 8" long and weighs less than an ounce. **#864** (ship wt 2 oz) **\$9.95**



A Word About Coast Guard Ratings

U.S. Coast Guard-approved life jackets are rated according to their buoyancy (the force necessary to keep chin and head above water). We sell Type I, II, III, and V Coast Guard-approved life jackets. Type I jackets provide a minimum of

22 lbs of flotation and are designed to turn an unconscious person upright and slightly backwards in the water. Type II jackets have at least 15½ lbs of flotation and are designed to float the unconscious wearer in an upright and slightly backward position. Type III jackets also

have 15½ lbs of flotation and are designed so the conscious wearer has greater mobility in the water. Type V, while still providing a minimum of 22 lbs of flotation, is approved for special uses: in our case, a foam-filled jacket designed especially for whitewater use.

Hi Float Life Jacket

Designed and refined by Charlie Walbridge of Wildwater Designs Ltd., this is the ultimate life jacket for serious big-water boaters. The Hi Float carries the minimum Type III rating (15½ lbs flotation), but actually provides 26-29½ lbs of flotation depending on jacket size. The extra thick closed-cell polyethylene and PVC foam provides protection as well as flotation, yet is so soft and flexible that your mobility is not restricted. A very tough 400 denier oxford nylon is used for the outer shell and a comfortable 200 denier oxford nylon is featured on the inside. The Hi Float features a full-length front zipper, waist tie, 5" fold-up bottom, and elasticized lower hem. A cinch strap on each side gives this jacket a remarkably secure fit. High-visibility red (#412) or royal blue (#413). Sizes: S (fits 36"-38" chest), M (40"-43"), L (45"-48").
#412-S, M, L (ship wt 2½ lb) \$65.00
#413-S, M, L (ship wt 2½ lb) \$65.00

Whitewater Life Jacket

The Streams Whitewater Life Jacket can be seen on rivers all over America because of its comfort and reliability. The soft PVC Aquafloam provides good buoyancy (Type II/V; 22 lbs) and some protection against hypothermia. The padded collar protects the back of the head and gives further flotation. The Whitewater Life Jacket is cut for freedom of movement; two adjustable heavy-duty safety straps and one heavy-duty chest strap, all with spring-snap closures, keep the jacket snug and allow easy adjustment. The durable nylon covering is highly visible

International Orange. Two sizes fit almost all adults: Small/medium fits up to 38" chest sizes, and Large/extra-large fits 40" chest size and above.
#402-S,L (ship wt 3 lb) \$60.00

Youth Life Jacket

This Type III jacket provides 11 lbs of Erisolite flotation with a comfortable nylon covering of high visibility yellow. Two chest straps with Fastex snap closures for extra security. One size fits chest sizes 24"-29" for body weights from 50-90 lbs.
#418 (ship wt 2 lb) \$25.00

Deliverance Life Jacket

The Streams Deliverance is probably the most widely used Type III jacket in the US today because of its secure feel and sleek, non-bulky fit. The Deliverance has ribbed foam flotation (15½ lbs) in a nylon shell. The 6" fold-up bottom is secured by a drawstring in the hem; this feature makes it ideal for kayaking. The ¾-length zipper gives a snug, comfortable fit that's reinforced by the cloth waist tie and bottom snap. Sizes: XS (32"-34" chest), S (36"-38"), M (40"-42"), L (44"-46"), and XL (48"-52"). Blue (#407) and Bright Yellow (#408).
#407-XS,S,M,L,XL (ship wt 2½ lb) \$40.00
#408-XS,S,M,L,XL (ship wt 2½ lb) \$40.00



W Heads-Up Life Jacket Stearns has put a lot of thought into designing their newest child's life jacket, the Heads-Up Life Jacket. The Heads-Up is comfortable to wear, with super-soft Aquafloam padding that provides 7 lbs of flotation (USCG Type II). A foam-filled collar cushions the child's head and assists in keeping a floating child's head above water. The Heads-Up also features a handy "grab loop" by which a straying child can be quickly captured.

The jacket closes with a ¾-length YKK nylon no-snap zipper; adjustable crotch and waist straps shut with plastic buckles for additional fit and security. The bright orange nylon outer fabric is highly visible, and the inner mesh covering allows for fast drying. The Heads-Up jacket fits children with chest sizes from 20" to 24", weighing 30 to 50 pounds. **#417 (ship wt 1½ lb) \$25.00**

Type 1 Life Jacket For maximum protection at a low cost, we offer the commercial all-vessel jacket (Mae West type). This universal jacket has kapok-filled vinyl pouches (25 lbs of flotation), wrap-around straps, a middle clasp, and an outer shell of orange nylon. All jackets of this type should be treated carefully to avoid puncturing the vinyl pouches. (not shown) **#405 (ship wt 3 lb) \$30.00**

Kindergaard Life Jacket Designed for children who weigh less than 30 lbs, this Stearns jacket will turn them face up and keep them that way in the water. It looks like a large collar (foam filled) with a body shirt under it. (not shown) **#416 (ship wt 1½ lb) \$30.00**

Gold Life Jacket This well-made Type III jacket from Extrasport features soft PVC foam flotation. The trapezoidal cut of the foam makes this top-quality jacket roomy and very comfortable. The tough 200 denier oxford nylon shell guarantees a long life for this jacket. The Gold Life Jacket comes with a full-length zipper, 5" fold-up bottom, elasticized lower hem, and cloth waist tie. Sizes: S (fits 28"-35" chest), M (35"-40"), L (40"-45"), and XL (45"-50"). Bright Yellow. **#410-S,M,L,XL (ship wt 2½ lb) \$45.00**



THROW LINES

Res-Q-Rope Dragonfly Designs produces quality products, and the Res-Q-Rope is no exception. The orange nylon bag (it floats) contains 75 ft of 3/8" solid-braid rope (2000 lb test). Both ends of this buoyant rope are treated with nonslip material. The web loop with a Fastex snap ensures quick access. One year guarantee covering defects in materials and workmanship. **#360 (ship wt 2 lb) \$38.00**

Rescue Bag An excellent throw-line rescue bag by Wildwater Designs, Ltd. that meets the demands of many professional organizations, including the Eastern Professional River Outfitters Assoc. Features 70 ft of tangleproof 3/8" polypropylene line (it floats) in a high visibility yellow nylon bag. Instructions for use are printed on the bag for quick reference. It's guaranteed for two years against defects in materials and workmanship. **#362 (ship wt 2 lb) \$30.00**

W Life Line Designed by a professional river runner, the Life Line features a high visibility 65 ft multifilament polypropylene rope that is tangle-free, supple, and easy on your hands. The 3/8" red and white rope floats, and has a tensile strength of 1400 lbs. The sto-bag is bright yellow 8 oz Dacron packcloth with a 2" thick ethafoam flotation ring and boldly printed quick reference instructions for use. The 1" wide web loop and quick-release Fastex buckle ensure quick removal from a canoe thwart, raft frame, etc. The manufacturer offers a 5 year guarantee covering defects in material and workmanship. **#364 (ship wt 2 lb) \$32.00**

W Hunk-a-Rope "...a spare coil 200 feet in length should always be at hand."

—Bill McGinnis, *Whitewater Rafting*
 'Nuff said? This 200 foot length of 3/8" hollow-braid polypropylene, coiled and ready in your raft, can help you through a thousand-and-one situations: securing your raft on shore, lining through impassable water, righting a flipped boat, etc. Buy the Hunk-a-Rope and save 2¢ a foot off the regular price. **#3371 (ship wt 2 lb) \$20.00**



**TOLL FREE ORDER LINE
 800-635-5202**

NRS Hat Great for a bit of shade, whether you're rolling down the river or mowing the lawn—the NRS "red-neck" hat. Made of cool open weave polyester, with the NRS logo printed on the front. Adjusts to fit all sizes.
#500 (ship wt 4 oz) **\$4.95**

NRS T-Shirt Our logo tastefully displayed—plus the inscription "For a good time call 208-882-2383" (our phone, of course). A quality 50% cotton, 50% polyester shirt that's great for river wear. Assorted pastel colors in sizes: S, M, L, XL (they run a bit small).
#501-S,M,L,XL (ship wt 8 oz) **\$3.95**

NRS Belt Buckle A solid 3" diameter buckle with our NRS logo.
#502 (ship wt 4 oz) **\$4.95**



W Polypropylene Underwear The secret of this amazing polypropylene underwear is its ability to wick moisture away from your skin while at the same time providing a very effective thermal insulating layer, keeping you warmer in the winter and cooler in the summer. Made of high quality 8½ oz polypropylene with a fleecy inner layer to baby your skin and a smooth outer layer to help prevent bunching and upward "creep", these garments are extremely comfortable.

lightweight, durable, and non-allergenic. Should you go for an unexpected dunking in your polypropylene undies, just wring them out, put them back on, and your body heat alone will have them dry in minutes. The crew-neck undershirt features full length sleeves with knit cuffs. This underwear is the perfect complement to the Blue Puma pile clothing, and should definitely be on your equipment list for your next adventure. Color: Navy. Shirt sizes: XS (30"-32" chest), S (34"-36"), M (38"-40"), L (42"-44"), XL (46"+). Pant sizes: XS (up to 27"), S (28"-30" waist), M (32"-34"), L (36"-38"), XL (40"-42").
#510 Poly-shirt (ship wt 8 oz) **\$16.95**
#512 Poly-pants (ship wt 10 oz) **\$19.95**



Pile It On Pile garments have gained worldwide acceptance as very practical, rugged, and versatile outdoor and leisure clothing. These stylish alternatives have the warmth of wool at half the weight, and since the nylon pile absorbs virtually no water the garments retain their loft and

Sea Jacket A truly unique jacket that's perfect for lightweight protection whenever you're on the water—whether you're rafting, sailing, kayaking, canoeing, or windsurfing. Designed by Seasuits with a comfortable 2-3mm thick Nylon-2 neoprene torso to provide warmth where you need it the most. Roomy set-in sleeves are coated nylon, excellent for both unrestricted movement and protection from wind and water. Full-length Delrin zipper, neoprene stand-up collar, and snug-fitting neoprene cuffs. Men's sizes: XS (up to 33"), S (34"-36"), M (37"-38"), L (39"-41"), XL (42"-44").
#520-XS,S,M,L,XL (ship wt 1½ lb) **\$55.00**



keep you warm even when they're soaked. These garments allow unrestricted movement when cycling, skiing, or paddling. Because of their excellent "wicking" properties they are a valuable part of your "layered" clothing system. Use pile clothing in combination with

Extrasport Paddling Jacket This is a well made, economically priced paddling jacket with features normally found only on more expensive jackets. It features a large, zippered "kangaroo" pocket in the front, elasticized zipper cuffs, and an adjustable Velcro neck closure with zipper for ventilation. Bottom hem is elasticized to help keep water out, and high quality urethane-coated nylon material is used throughout. Available in blue or high-visibility yellow. Chest sizes: XS (up to 28"), S (28"-35"), M (35"-40"), L (40"-45"), XL (45"-50").
#522 Yellow-XS,S,M,L,XL (ship wt 8 oz) **\$25.00**
#523 Blue-XS,S,M,L,XL (ship wt 8 oz) **\$25.00**

polypropylene underwear for complete comfort on your next outing. All Blue Puma pile clothing is 12 oz Antron nylon and can be machine washed and dried. Unlike some polyester piles, the Blue Puma nylon pile will not have unsightly "pills" after repeated washings.

Blue Puma Paddling Jacket Blue Puma designed this jacket specifically for kayaking, but many canoeists and rafters like its water and wind-shedding properties as well. We've found that wearing this jacket over the Blue Puma Paddling Sweater is an especially comfortable combination for paddling in adverse weather conditions. The neoprene neck closure (with Velcro tabs and ventilation zipper) combines with the zippered neoprene cuffs to seal out water at your neck and wrists. The raglan sleeves give excellent arm and shoulder mobility, and the drawstring waist lets you adjust the jacket for a good fit without upward "creep". There's even a "tooth-hold" on the cuff so you can zip the cuff with one hand, and a zippered chest pocket. Material is navy Super K-Kote taffeta with red trim. **\$47.50**
#525-XS,S,M,L,XL (ship wt 1 lb)

Blue Puma Paddling Sweater This pile sweater from Blue Puma is the perfect complement to their paddling jacket. Made of durable Antron nylon pile, the sweater is warm, lightweight, non-restrictive, and dries in a breeze. It features ¾ length sleeves that don't interfere with the cuffs of your paddling jacket and a fleecy crew neck for extra comfort. This sweater is an excellent alternative to your wetsuit jacket or wool sweater for almost all boating conditions. You can wear it around camp or while jogging, skiing, bicycling, etc. This sweater has been proven in field tests on many of the world's rivers, including the Alsek in Alaska and Idaho's Middle Fork. Now available in cardinal red with navy trim, or navy with royal blue trim. **\$37.50**
#530 Blue-XS,S,M,L,XL (ship wt 1 lb)
#531 Red-XS,S,M,L,XL (ship wt 1 lb)

Blue Puma Sizing Chart

Men's chest size	M 38"-40"
XS 32"-34"	L 40"-42"
S 34"-36"	XL 42"-44"
(Most women wear the smaller sizes)	

Blue Puma Sweatshirt This year, Blue Puma has added a front zipper and stand-up collar to their popular nylon-pile sweatshirt. Pull the zipper all the way up the 3½" fleecy collar to keep drafts out and your neck warm. Pull it down for ventilation. Lightweight at .16 oz (size Large), the sweatshirt has been styled for ease of movement—whether skiing, climbing, cycling, or rowing a dory through the Grand Canyon. A convenient fleecy-lined pouch will warm your chilled hands and keep small items handy. Since the nylon pile absorbs so little water, the sweatshirt dries fast. Twirl it above your head a few times, put it back on, and your body heat will finish the job in a few minutes. The sweatshirt has smooth Antron nylon on the outside to resist snags and abrasion, and fleecy nylon pile on the inside for warmth and comfort. In cardinal red with navy trim, or navy with royal blue trim. **\$45.00**
#536 Blue-XS,S,M,L,XL (ship wt 1 lb) **\$45.00**
#537 Red-XS,S,M,L,XL (ship wt 1 lb)



W Pile Pants Blue Puma's

comfortable nylon-pile pants provide the warmth of wool without wool's weight and bulk. These durable pants complement the Sweatshirt or Paddling Sweater to provide full protection on chilly paddling days. Features adjustable bungee cord waist, inner pocket, and locking ankle zippers. The legs are cut long and designed to be turned up if necessary. Available in royal blue. Waist sizes: S (up to 30"), M (32"-36"), L (38"+). **\$40.00**
#539-S,M,L (ship wt 1 lb)

W Trail Tread Boots These quick-

drying high-top canvas sneakers are great for wear on and off the river. Natural gum rubber lug soles give you excellent traction on slippery rocks. You'll like these for casual hiking as well, because the tempered spring steel shank provides good support and flexibility. Weight: 2 lbs 14 oz (size 8). Men's whole and half sizes: 4-12, and size 13 (med. width). Adjust down two sizes for women. **\$24.95 pr**
#540 (ship wt 3 lbs)



WETSUITS

Waterline Wetsuits In extreme weather, there is really no substitute for a wetsuit. In midsummer, a wetsuit can mean the difference between comfort and misery in cold water runoff. Wetsuits are undeniably expensive, but a well-made one will last for years. We believe our new Waterline Wetsuits represent an outstanding value in comfort, fit, and looks.

First, the fabric. We chose top quality 3mm (1/8") thick neoprene, faced with tough nylon fabric on both sides. This Nylon-2 neoprene is superior to Nylon-1 neoprene (nylon on

one side only) in durability and looks while providing comparable warmth.

Next, the construction. We chose Harvey's, a top-flight maker of diving suits, to produce the Waterline. Harvey's uses a sophisticated sewing process to lock-stitch all seams with dacron/polyester thread. This creates a perfectly flat seam that feels comfortable against your skin. Nylon braid reinforces and finishes each seam and edge, and stretches with you when you move.

Finally, looks and fit. The Waterline is styled for a flattering, comfortable fit. The contrasting shades of navy and royal blue

with navy braid trim give the suits a handsome and distinctive look. Raglan sleeve construction means ease of movement through the arms and shoulders without excessive underarm bulk, and stand-up collars on the jacket and shortie shield your neck from chilly wind and spray. All Waterline wetsuits are cold-water machine washable; drip dry.

Our pride in the Waterline is backed with a lifetime guarantee against defects in workmanship and materials. Contact us for information about custom suits and add-on accessories. Men's sizes: S, M, ML, L, XL. Women's sizes: S, M, L.

NRS Wet Shoe We're proud to announce an affordable and durable substitute for your soggy, worn-out old sneakers which always seem to fall apart just when you need the traction. By importing the shoes directly from the manufacturer, we can offer them at a very reasonable price. They are versatile enough to be used not only in river running, but in other water sports as well. The uppers are constructed of warm, durable 5mm-thick nylon-lined neoprene with glued and lock-stitched seams. To minimize external wear and tear on these seams, they are covered with a reinforcing strip of rubber. Other critical abrasion areas are covered with durable vulcanized rubber—including a generous toe cap, instep protector, and extra tall heel cap to help guard your Achilles tendon. The soles of these shoes are molded rubber with a non-slip tread for sure footing on slick rocks. The comfortable, padded insoles make portages much more bearable. With the six sizes offered, you should find it easy to get a good fit. There is a one year warranty covering defects in material and workmanship. Sizes: XS, S, M, ML, L, XL. Available March 1, 1983.

#490 (ship wt. 1 1/2 lb) **\$27.50 pr**



NRS Wet Shoe & Tabata Boot Size Chart

Size	Men	Women
XS	5 1/2-7	6-7 1/2
S	6 1/2-7 1/2	7-8 1/2
M	7-8 1/2	8-9 1/2
ML	8-9 1/2	9-10 1/2
L	9-10 1/2	10-11 1/2
XL	11-12	11-12

Or send a foot tracing if you're not sure.

Waterline Jacket

The Waterline Jacket is styled for comfort and warmth, with raglan sleeves, stand-up collar, full-length front zipper, and wrist zips. Its cut is long to minimize upward "creep" and provide extra protection. With the Farmer John, you'll have two layers of protection over vital body areas. Royal blue with navy trim and contrasting navy sleeves.

#480 Men's (ship wt 2 lb) **\$72.00**
#481 Women's (ship wt 2 lb)



Waterline Farmer John

The Farmer John Suit gives you full length protection that's just right for most weather and water conditions. This sleeveless suit is cut like a farmer's bib overall, with rounded neck, deep armholes, and Velcro shoulder opening with snap. Navy with navy trim and contrasting double-thick royal blue leg panels from knee to ankle; leg zips for easy pull-on and take-off.

#482 Men's (ship wt 2 1/2 lb) **\$98.00**
#483 Women's (ship wt 2 1/2 lb)



Waterline Shortie

The Shortie is a good suit for warm weather/cold water paddling. It's far more versatile than the usual "short john" because of its short sleeves and stand-up collar. A full length zipper makes it more convenient to get into and out of, as well. Legs are cut mid-thigh length; royal blue with navy trim and contrasting navy sleeves.

#484 Men's (ship wt 2 lb) **\$78.00**
#485 Women's (ship wt 2 lb)



Roto Suit If you've been chilled on your past river trips because you couldn't afford the high price of an expensive wetsuit, now's your chance to stay warm and comfortable. This specially made, economically priced Farmer John wetsuit with jacket is manufactured by Harvey's, who also makes our high quality Waterline suit. The price is kept low because the Roto Suit is styled in 2-3mm thick nylon-lined neoprene that has minor cosmetic flaws in the thickness or surface texturing. The neoprene pattern may vary from suit to suit, one wetsuit may have smooth neoprene, while another may have a "sharkskin" texture. The workmanship, however, is flawless. In fact, Harvey's puts the same care into making the Roto Suit as they do in their more expensive wetsuits, and covers them with a one-year guarantee against defects in workmanship or material longevity. All in all, you get a warm, comfortable wetsuit at an incredibly low price. And you won't be sacrificing durability—these suits have seams that are lock-stitched with strong, rot-proof dacron/polyester thread and reinforced with navy and white stretch seam tape for extra-long seam life. The Farmer John has a rounded neck, Velcro shoulder entry, and deep arm holes for good freedom of movement. For extra durability, Harvey's has added a contrasting double thickness nylon/neoprene wear patch from just above the knee all the way to the cuff. The jacket features a stand-up collar, full

length front zipper, and navy and white piping. These suits are cold-water machine washable; drip dry. Men's sizes: S, M, ML, L, XL. Women's sizes: S, M, L. Sorry, custom sized Roto Suits are not available.

- Men's**
#486 Suit (ship wt 4½ lb) **\$80.00 set**
#4861 Jacket (ship wt 2 lb) **\$40.00**
#4862 Farmer John (ship wt 2½ lb) **\$60.00**
- Women's**
#488 Suit (ship wt 4½ lb) **\$80.00 set**
#4881 Jacket (ship wt 2 lb) **\$40.00**
#4882 Farmer John (ship wt 2½ lb) **\$60.00**

Wetsuit Glue This black liquid neoprene does a fine job fixing your spray skirt or gluing a crucial patch to that vintage 1967 wetsuit of yours. A 4 oz can with brush top is enough for most repairs. (Flammable; no parcel post or air shipments, please.)
#499 (ship wt 6 oz) **\$3.50**

Wetsuit Material A quality 1/8" Nylon-1 neoprene for patching wetsuits, spray skirts, or making your own paddling accessories. The material is 38" wide and is sold by the running foot.
#498 (ship wt 1 lb) **\$9.00 ft**



Tabata Boot This wetsuit boot has earned its stripes in the whitewater field over the past year by being worn in major river expeditions worldwide. The uppers are 3/16" (5mm) nylon-lined neoprene, and for durability, the prime abrasion areas (toe, heel, and instep) are covered with vulcanized rubber. The rugged, molded rubber sole has a non-slip tread and protects the bottom of your foot from sharp rocks. These boots have a two year warranty covering defects in material and workmanship. Sizes: XS, S, M, ML, L, XL; please see sizing chart on p 30.
#491 (ship wt 1½ lb) **\$35.00 pr**

Hard Sole Bootie From Sea Suits, these wetsuit boots are quite popular with whitewater enthusiasts who prefer to wear sneakers on top of their wetsuit footwear, especially for extended portages or other extreme conditions. The sole is 5/32" thick and more rigid than the 3/16" neoprene nylon uppers. Men's whole sizes 4-13. Women order one size smaller than your normal shoe size. Please send us a tracing if you are not sure.
#492 (ship wt 1 lb) **\$22.50 pr**

Wetsuit Mitts Wetsuit mitts are indispensable for cold weather river trips. The 3/32" textured neoprene gives you an excellent grip on your paddle or oar, and the mitten styling provides the most warmth of any paddling handwear. These are great for canoeing, kayaking, or rafting. Sizes: S, M, L, XL.
#495-S,M,L,XL (ship wt 6 oz) **\$12.00 pr**



Three Finger Gloves The "shooting glove" styling of these 1/8" neoprene mitts from Sea Suits allows your finesse to show through on those early runoff kayak and canoe trips. The 3 finger gloves have a good snug fit with long wrists for extra warmth. Textured neoprene makes these mitts excellent for boardsailing, too! Sizes: S, M, L.
#496-S,M,L (ship wt 6 oz) **\$13.00 pr**



Wet Suit Sizing Chart

Men	Chest	Waist	Weight	Height	Hips
Small	34-36	30-32	125-145	5'5"-5'9"	32-36
Medium	37-39	32-34	145-165	5'8"-5'11"	34-38
Med/Large	38-40	33-34	155-165	5'8"-5'11"	36-40
Large	38-41	34-36	165-185	5'8"-5'11"	
X-Large	41-44	36-40	185-210	5'8"-6'0"	
Women					
Small	32-34	22-24	100-110	5'0"-5'6"	32-36
Medium	34-37	23-26	110-130	5'2"-5'7"	34-38
Large	36-38	26-28	125-145	5'4"-5'9"	36-40



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W Boater's Jacket and Pants

Blue Puma has built a solid reputation by combining creative design, quality materials, and careful construction in all their outdoor gear. We're delighted that the Blue Puma people have turned their talents to producing attractive and functional clothing for water recreation. Their latest offering—the Boater's Jacket and Pants—is a stylish way to stay dry and comfortable. Made of coated taffeta, both Jacket and Pants will shed rain and wind to keep you comfy in the worst of weather.

The pullover Boater's Jacket features a cozy pile-lined collar which zips up snugly when you need the warmth and wind-protection; opened wide it provides good ventilation. The double front pocket provides zippered storage and a pile-lined handwarmer pouch. Elasticized cuffs with sturdy brass snaps complete your comfort. Men's chest sizes: XS (32"-34"), S (34"-36"), M (38"-40"), L (42"-44"), XL (46"+) Royal Blue.

#527-XS,S,M,L,XL (ship wt 1 lb) \$40.00

The Boater's Pants are reinforced in the seat and at the knees with 6 oz pack cloth for extra strength where you really need it. The Pants open wide at the waist and ankles so it's easy to pull them on or off over bulky clothing or boots. The elasticized waist is secured with snaps and locking zippers, and the ankles have a snug Velcro closing. There's also a handy bellows thigh pocket. Waist sizes: S (26"-28"), M (30"-32"), L (34"-36"), XL (38"+) Royal Blue.

#528-S,M,L,XL (ship wt 1 lb) \$40.00

W

Blue Puma Hat This "Robin Hood" hat provides great head-warming protection for just about any outdoor sport. Blue Puma makes this hat in nylon pile-lined Goretex for warmth, good ventilation, and comfort. Ear flaps fold down for extra protection. The neoprene bill shades your eyes from sun and rain, and an adjustable chin strap ensures a secure fit. Available in sizes: S (up to 7¼) and L (7-3/8 and above).

#504-S,L (ship wt 4 oz) \$16.95



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