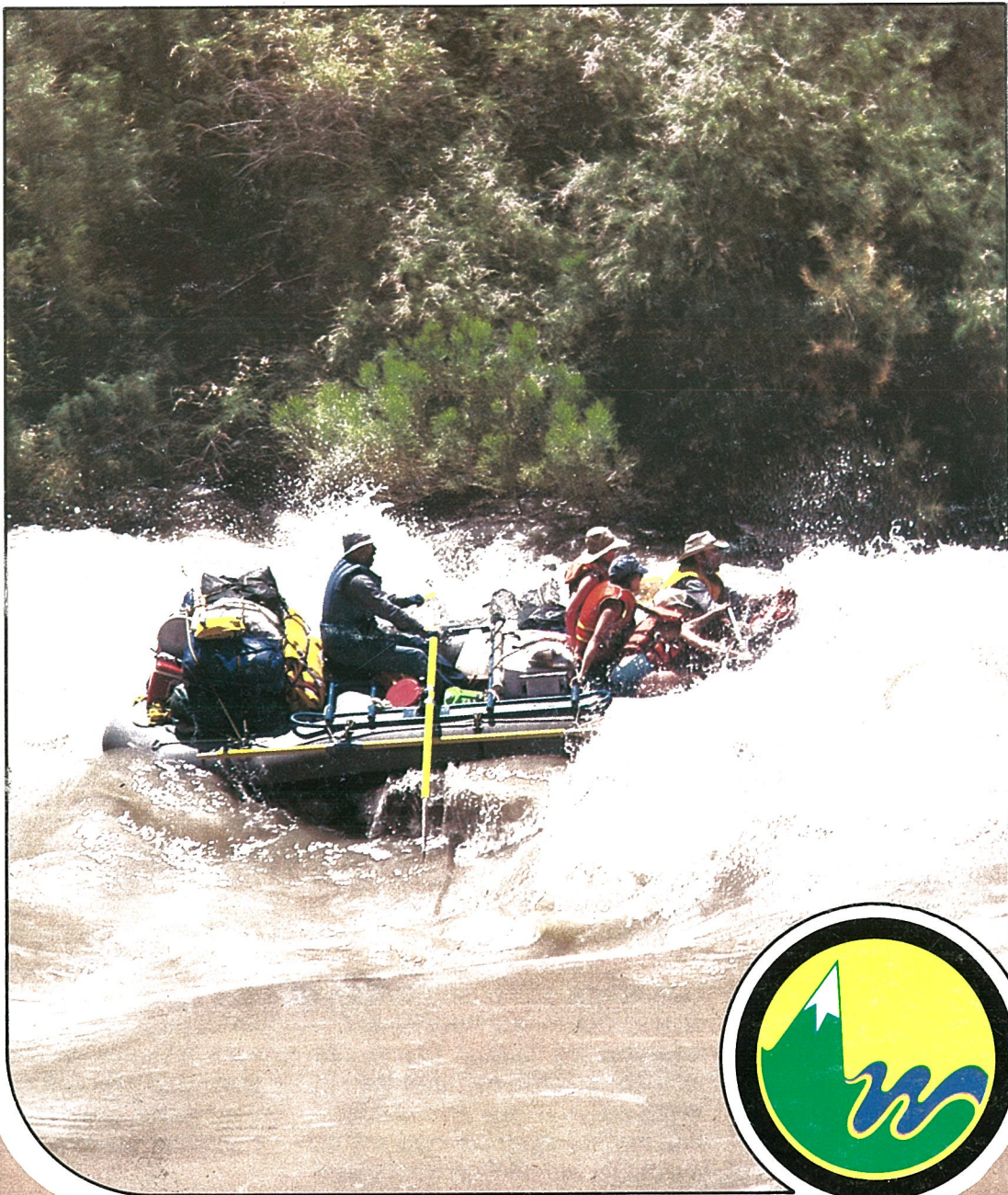


Northwest River Supplies

1981



INTRODUCTION

Northwest River Supplies is dedicated to providing quality whitewater equipment and related products at reasonable prices. Since equipment selection is so important, we test most products ourselves before listing them — analyzing each one for possible improvements. Many of you have been with us since the early days, and it has been your suggestions and ideas that have brought about improved and new products. Thanks for the help!

1980 was a year of change and progress at NRS. We've moved into a new store at 430 West 3rd in Moscow, Idaho — come see us if you get the chance. For optimum efficiency in filling orders, we've expanded our telephone service and have a new order-processing computer.

Our new 1981 products are innovative and exciting. The Sport II, Sprite II and Scout boats, in their respective price ranges, are higher quality and sturdier than any other rafts on the market. You

will also notice our entry into the thrilling sport of sailboarding (more widely known as windsurfing).

All in all, we think you will be pleased with our 1981 catalog and its products. We've described the items as honestly and fairly as we know how. Don't hesitate to ask questions when selecting equipment from NRS — most of our employees are experienced river runners and would be glad to help you.

See you on the rivers!

PHONE ORDERS: 208/882-2383.

We have now expanded our hours to give you better service. We accept phone orders Monday - Friday 8:30 - 5:30 and Saturday 9:00 - 5:00 (Pacific Time) all year round. During the busy season (February - August) we extend our hours to 8:30 - 6:30 Monday - Friday. To insure accuracy, please fill out an order form and then read it to us. Mastercard, VISA and UPS COD orders accepted by phone. If ordering COD, you pay the COD fees in addition to our normal shipping and handling charges. COD fees start at \$1.40. (You must pay in cash only.)

SHIPPING POLICY

We are proud of our fast, dependable service. If your order cannot be filled and shipped within 3 working days, we will let you know what the problem is and when you can expect delivery. Whenever possible we will ship via UPS; however, if you use a post office box as a return address we are forced to use Parcel Post. (It is slower and more costly.)

UPS: For orders shipped via UPS to the lower 48 states, we charge 6% of the merchandise amount for shipping and handling with a minimum of \$1.50 and a maximum of \$10.00 in Idaho, \$15.00 in Washington, Oregon, Montana and Wyoming and a maximum of \$25.00 in all other states.

We can ship UPS Blue Label (three day air service) to most of the lower 48 states (Idaho, Washington, Oregon, Montana, Utah, Wyoming and Nevada excepted). If you wish your order sent UPS Blue Label, please call for an estimate of charges. PLEASE NOTE THAT WE CANNOT SHIP FLAMMABLES VIA UPS BLUE LABEL.

ALASKAN AND HAWAIIAN CUSTOMERS PLEASE NOTE:

Generally, we ship Parcel Post to these areas since UPS service is Blue Label only (therefore, more expensive) and limited in scope (currently, only Oahu and Anchorage areas are served). If you wish Blue Label service, please call for an estimate of charges. FLAMMABLE PRODUCTS CAN ONLY BE SHIPPED MOTOR FREIGHT TO ALASKA.

CANADIAN CUSTOMERS PLEASE

NOTE: Due to strict postal and customs regulations, please call us to be sure we can ship the products you want. Parcel Post and motor freight services are available, but UPS service is very limited. FLAMMABLE PRODUCTS CAN ONLY BE SHIPPED VIA MOTOR FREIGHT TO CANADA.

PARCEL POST: For orders shipped via parcel post, we charge 10% of the merchandise amount for shipping and handling with a minimum of \$2.50 and a maximum of \$25.00. PLEASE NOTE THAT

WE CANNOT SHIP FLAMMABLES PARCEL POST.

MOTOR FREIGHT: All orders that include rafts (except the Sprite II and the 6 and 8-man Udisco's), the Universal frame, long ash oars (8 ft. or greater) or 11 and 12 ft. Carlisle oars must be shipped motor freight (FOB Moscow, Idaho). You pay the delivering carrier for freight. For estimates on the charges, consult your local freight company or check with us. Orders over \$1,000 receive a \$25.00 freight allowance.

RUSH SERVICE: Put it off till the last minute? If you phone your order in by 10 a.m. Pacific time we will ship your UPS order the same day for a \$3.00 rush charge (does not include regular UPS or Blue Label charges).

GIFT CERTIFICATES: We now offer gift certificates. Just send us your check, along with the name and address of the recipient, and we will send them a Northwest River Supplies Gift Certificate in your name, good toward a purchase from our catalog.

TERMS: Payment with order: Money order, Check, VISA or Mastercard. Foreign customers please remit in U.S. dollars.

STORE HOURS: Come see us at our new store, 430 West Third, Moscow. Hours are 10:00 - 5:30 Monday - Friday and 9:00 - 5:00 Saturday.

Rafts

Rafts accommodate all levels of adventure from the awesome drops of some exotic African or South American river to a leisurely drift on a local "tame" river. They can be rowed, paddled or motorized. No matter what level of excitement or adventure suits you, river rafts are available for your needs. Today, most river rafts are manufactured in a fairly standard design with multiple air chambers, raised bow and stern and two cross thwarts. Once you have determined the appropriate size, the boat's material and design are probably the two most important characteristics to consider.

MATERIAL. Boat material has two components: coating and fabric. Coating quality is measured by type of coating, thickness and manner of application. Hypalon, a synthetic rubber coating, is generally acknowledged to provide the best resistance to weathering and abrasion. Next in order of quality is neoprene, followed by EPDM, SBR and finally, natural rubber. Blending two or more of these rubber compounds together in a coating results in better quality at a lower cost. Manufacturers can vary the rubber formulas for different price classes of boats. For instance, Campways uses a 60% Hypalon coating in the material for their top quality boats, but a 25% Hypalon coating for their River Rider series.

Fabric strength can be indicated in two ways, either by fabric weight (ounces per square yard) or thread weight (denier). Of the two, we feel fabric weight is a better measure of fabric strength. The strongest tube material commonly has an 840 denier base fabric that weighs approximately 5 oz. per square yard. It is the strength of this fabric (not the type of coating) that gives the finished material its strength against tears and punctures.

Avon's material is the top of the line and has been for many years. Their dense, well-bonded material is made with an 85% Hypalon coating on an 8 oz. fabric. In comparison, Achilles' and Campways' Red Line materials have a coating that is at least 50% Hypalon on an 840 denier fabric.

Avons, Achilles, Campways Red Lines, and our Sport IIs can be left outside almost indefinitely with no ill effects. Medium grade rafts, like the Campways River Riders, will stand up almost as long, but since special circumstances could cause problems, we suggest substantially more care for these boats. If rafts with high natural rubber or other economical rubber coatings (Udisco) are used extensively they should be treated very carefully and coated with GACO or similar neoprene based paints. The Udisco coating formula seems to vary from shipment to shipment, and while some boats just last and last,

others exhibit aging problems almost immediately. You are forewarned that careful treatment of these boats may be necessary to obtain a long life. In time, all but the highest quality coatings may crack and/or begin to powder.

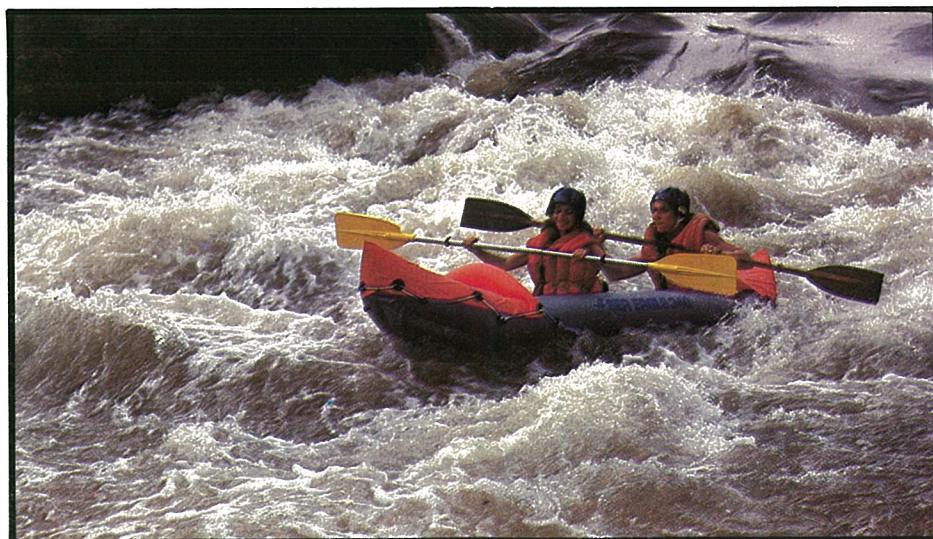
DESIGN. There are a number of design features that directly affect a boat's performance and capability. For instance, raising the bow increases the dryness of the boat. It also lets the bow go over a curl rather than being stopped and pushed back. A shorter waterline allows quicker turning and better maneuverability. Raised sterns increase rowing speed, improve maneuverability and reduce the possibility of being stopped going over a ledge or swamped from behind in big water. Cross thwarts provide internal rigidity, seats and extra air chambers. The old military boats had integral thwarts which — after a few years — developed leaks that were practically impossible to fix. To avoid this problem, separate thwarts were attached to the floor (as in the Avon Redshank) but this produced an obstruction on the bottom to good water flow. Thus, laced-in thwarts became the accepted standard for top of the line quality; however, they are expensive. Water and sand may get in behind the lacings and can cause mildew and fabric deterioration in all but the best boats. Producing a separate thwart and then providing a means to hold it in without lacing makes a lot of sense. Campways glues their River Rider front thwarts into sleeves on the sides of the main tubes. Another method (probably pioneered by Avon) uses a pair of sewn circles on each end of the thwart; one circle is glued to the thwart, the other to the side of the main tube. Currently, this is the simplest way to provide long trouble-free thwart life. Finally, a taut floor is important to let the boat slide freely through the water. Both rowing and paddling become more difficult with a floor that is excessively loose. On the other hand, some looseness and stretch is desirable to keep the floor from being torn easily.

"Where The Action Starts"

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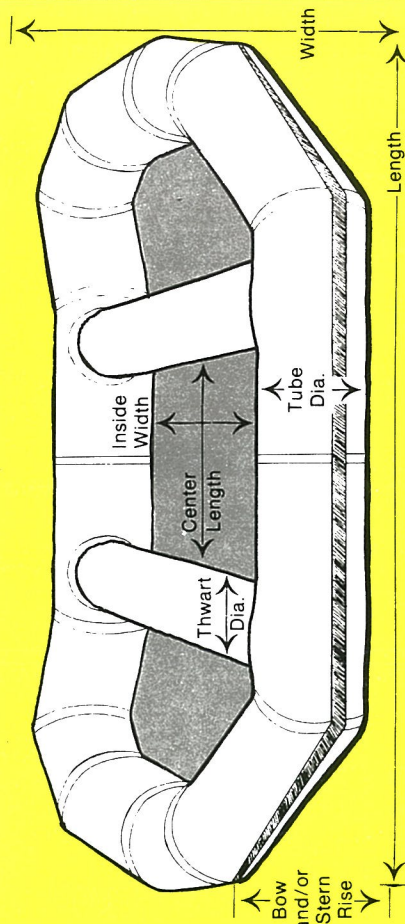
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Last year, Northwest River Supplies investigated manufacturers of inflatables and even went overseas to confer with their engineers and production people. Now we have contracts to purchase three river boats of our own design directly from two manufacturers. This means we can offer you high quality boats at very reasonable prices.

The flagship of our line is the Sport II, built to our exacting specifications by one of Japan's foremost manufacturing companies, Kohkoku Chemical, Ltd. Makers of the well-known Achilles brand speed boats, they bring the same superior quality and workmanship to our Sport II.

Our two other new boats, the Sprite II and the Scout, are economically designed rafts that offer features (Hypalon material, D-rings, advanced thwart design) normally found only in more expensive rafts. Both rafts offer excellent quality at a very economical price. This year the supply is limited, so order early to avoid missing these great values.



P.O. Box 9186
Moscow, Idaho 83843
208-382-2383

	LENGTH	WIDTH	MAIN TUBE DIAMETER	THWART DIAMETER	# MAIN TUBE CHAMBERS	CENTER COMPARTMENT LENGTH/WIDTH	BOW/STERN RISE	TUBE MATERIAL SQ. YD.	FLOOR MATERIAL DENIER/OZ. SQ. YD.	% HYPALON	# D-RINGS	WEIGHT	SUGG. BOAT LENGTH	PRICE
NRS SPORT II	14' 9"	7'	20"	15"	4	45"/43"	11"/11"	840/40 oz.	840/40 oz.	80	14	120	9' 10'	\$1,350.00
NRS SHITE II	12'	5' 8"	17"	15"	4	33"/34"	9' 9"	420/30 oz.	840/35 oz.	65	6	65	7.5' 8'	\$ 360.00
NRS SCOUT	14' 6"	6' 8"	20"	16"	4	44"/40"	11"/11"	420/30 oz.	840/35 oz.	65	6	85	9'	\$ 525.00
ACHILLES RV-140 HD	13' 9"	6' 8"	18"	15"	4	42"/44"	11"/11"	840/47 oz.	1260/55 oz.	80	12	132	8.5' 9'	\$1,600.00
ACHILLES RV-160 HD	16'	7' 4"	20"	17.5"	4	46"/48"	11"/11"	840/47 oz.	1260/55 oz.	80	16	167	10'	\$1,900.00
AVON EXPLORER	12' 4"	6' 2"	17"	15"	4	41"/40"	7' 3"	840/35 oz.	840/35 oz.	85	6	83	8' 8.5'	\$2,000.00
AVON ADVENTURER	13' 9"	6' 8"	18"	15"	4	40.5"/44"	9' 9"	840/35 oz.	840/35 oz.	85	6	99	8.5' 9'	\$2,475.00
AVON PROFESSIONAL	15' 9"	7' 4"	20"	16.5"	4	45.5"/48"	12' 12"	840/35 oz.	840/35 oz.	85	8	114	10'	\$3,200.00
CAMPWAYS R R-13	13' 1"	5' 10"	17"	15"	2	40"/36"	11' 6"	420/35 oz.	840/37 oz.	25	9	83	8' 8.5'	\$ 900.00
CAMPWAYS R R-14	13' 6"	6' 6"	19"	16"	2	40"/40"	11' 5"	420/35 oz.	840/37 oz.	25	12	93	8.5' 9'	\$1,000.00
CAMPWAYS R R-15	15'	6' 11"	21"	19"	3	42"/41"	11' 5"	420/35 oz.	840/37 oz.	25	12	108	9' 10'	\$1,400.00
UDISCO 6-MAN	11' 6"	5' 2"	15"	13"	4	27"/32"	6' 6"	420/30 oz.	420/30 oz.	0	0	52	7' 7.5'	\$ 310.00
UDISCO 8-MAN	11' 11"	5' 8"	16"	13"	4	25"/36"	6' 6"	420/30 oz.	420/30 oz.	0	0	60	7.5' 8'	\$ 350.00
UDISCO 10-MAN	13' 11"	6' 3"	18"	14.5"	4	42"/39"	10' 10"	420/30 oz.	420/30 oz.	0	0	75	8.5' 9'	\$ 425.00
UDISCO 14-MAN	16'	6' 8"	21"	17"	4	56"/38"	11' 11"	420/30 oz.	420/30 oz.	0	0	92	9'	\$ 540.00



100 SPORT II. We have been searching for a first class manufacturer capable of making a superior boat with exacting quality control. Kohkoku Chemical, Ltd., one of Japan's major chemical manufacturing companies and a specialist in rubber products for more than 30 years, has agreed to make our Sport II in the latest and best material their research labs have developed. The Sport has good capacity for the usual 4 to 7 day trip, yet has the extra space for extended trips or expeditions. The 45" center compartment is big enough to provide the boatman with oar pivot points within 10" of the boat's center with either cooler in front or cooler-seat frames. Bow and stern compartments have more than adequate space for passengers or equipment. With all this space, the Sport is only 14'9" long and 7' wide — it's exciting yet stable. The bow and stern rise shorten the waterline for a very fast and maneuverable boat. We use 20" tubes to provide a relatively dry, yet enjoyable ride; much larger and the ride is uninteresting, smaller and the boat loses carrying capacity and is too wet. The material is 5.5 oz. 840 denier nylon fabric coated with tough 80% Dupont Hypalon coating, calendered between heavy rollers to create a tough, high density 40 oz. material. Additional specifications are: 4

main air chambers, 2 laced-in thwarts, 6 military valves, 14 2" D-rings (including 5 D's around the stern for lashing cargo). We used this boat all last summer, and it is truly a fine boat. We're so sure of this boat that when you receive it, blow it up and if it's not all you expected and more, just send it back, and we will refund all your money (including freight charges). We're really pleased to have a boat to compete with other top of the line models. With the Sport II, we intend to improve our river boat credibility by providing a superior boat at a price that is hard to resist. You'll save between \$700 to \$1,200 over comparable boats and still receive the same high quality. Want a fabric sample? Call or write, and we'll send one off right away. Specifications are: 14'9" long by 7' wide, 20" diameter main tubes, 15" diameter thwarts, 11" bow and stern rise, 45" L x 43" W center compartment, 6 air chambers with recessed military style valves, 840 denier, 40 oz. Hypalon tube and floor material, 14 mounted D-rings and a repair kit. The Sport II comes with a one year guarantee against defects in workmanship and material. Weighs 120 pounds — shipped motor freight..... \$1,350.00

101 SPORT UNIVERSAL PACKAGE The Sport Universal Package includes: #100 Sport, #150 Universal Frame, 4 #330 3 ft. HD Straps, #206 NRS Pump and three 9 ft. Carlisle Oars with magnum STM blades (please state shaft and blade color choices). The oars are set up with your choice of pins and clips (one set #285 Pins and Clips plus one #286 Extra Clip) or open oarlocks (one pair #300 Manganese Bronze Oarlocks, one pair #304 Hairpin Cotter and three #310 Molded Oar Sleeves). Shipped motor freight..... \$1,850.00

102 SPORT EXPEDITION PACKAGE The Sport Expedition Package includes: #100 Sport, #155 Expedition Frame, 4 #330 3 Ft. HD Straps, #206 NRS Pump and three 9 ft. Carlisle Oars with magnum STM blades (please state shaft and blade color choices). The oars are set up with your choice of pins and clips (one set #285 Pins and Clips and one #286 Extra Clip) or open oarlocks (one pair #300 Manganese Bronze Oarlocks, one pair #304 Hairpin Cotter and three #310 Molded Oar Sleeves). Shipped motor freight..... \$1,750.00

103 SPORT BAG To conveniently carry your new raft, try our new boat bag. It's designed just for this purpose and fits the Sport perfectly. See page 15 for a complete description..... \$17.50



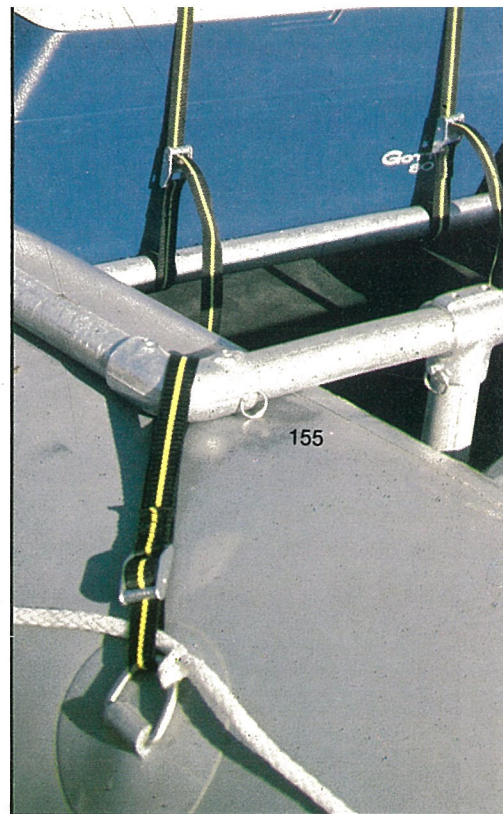
105 SPRITE II Here is our answer to the need for a small, high quality, paddle/rowing boat that doesn't cost a fortune. The Sprite II is a terrific paddle boat for four people; with a rowing frame it's a great boat for 2 or 3 people and some gear. Its high bow lets it ride over big waves, and the stern rise provides a relatively short water line for excellent maneuverability. Whether you're paddling or rowing, the ride is exciting, yet stable. The Sprite II is 12' long, 5'8" wide and has 17" diameter tubes for a relatively dry ride. It comes with six D-rings (one each on the bow and stern and four on the main tubes for frame tie-downs). It also has a life line around the boat and a 12 foot bow line attached to the front D-ring. There are four main air chambers and two cross thwarts attached with a pair of sewn circles on each end of the thwart. Six high quality, 2-piece, one way plastic valves make inflation and deflation easy and rapid. Their dependability is excellent, and we guarantee these valves for two years. All that's important, but the really big news is the material: it's a 65% Hypalon coating in a relatively low-cost boat! This coating covers a 420 denier tube fabric, and the floor is 840 denier fabric for extra strength. Specifica-

tions are: 12' long, 5'8" wide, 17" diameter main tubes, 15" diameter thwarts, 6 air chambers, 6 mounted D-rings and a repair kit. The Sprite comes with our 9 month guarantee against defects in workmanship and materials. Weighs 65 pounds — can be shipped parcel post or motor freight.....\$360.00

106 SPRITE BAG Even the little fellas need TLC, and your Sprite will be up with the big guys with this handy carry bag. See page 15 for specifications.....\$15.00

108 SCOUT This is our "best buy" boat for a limited budget. The Scout has the handling ability and capacity for virtually any private trip. It is big enough, at 14'6" long and 6'8" wide, to go most anywhere, yet it's maneuverable and relatively light for the adventurous. The bow rise occurs in two steps and is great enough to ride easily over the waves. The raised stern aids efficient rowing, and the reduced waterline increases maneuverability. Despite their pronounced rise, both the bow and stern compartments have ample room for passengers or gear. Each thwart is a separate chamber attached to the main tubes by means of a pair of sewn patches

which are then glued to both the side of the thwart and the main tube, as in the Sprite II. The Scout is manufactured with a very durable 65% Hypalon coating over a 420 denier tube fabric and a heavy-duty 840 denier floor fabric. Designed with a non-commercial boater in mind, we feel that with 20" tubes this is the perfect economy rowing raft to carry 3-6 people, and still have room for extra food and gear on those long trips. We use 9 ft. magnum blade Carlisle oars for this boat but some of you may prefer the 8½ ft. instead — it's up to you. The center compartment is large enough to hold an 80 qt. Gott cooler or an 86 qt. Igloo and still give the boatman good rowing position. The Scout has four main air chambers and two thwarts, all with two-piece, large diameter, one-way plastic valves that carry a two year guarantee. Specifications are: 14'6" long by 6'8" wide, 20" diameter main tubes, 16" diameter thwarts, 11" bow and stern rise, 44" (L) x 40" (W) center compartment, 6 air chambers, 6 mounted D-rings and a repair kit. The Scout comes with a 9 month guarantee against defects in workmanship and materials. Weighs 85 lbs. — shipped motor freight.....\$525.00



ACHILLES

This year we are pleased to offer the Achilles brand of river boats from Kohkoku Chemical of Japan. Achilles is clearly trying to force Avon and Campways to yield them some market share. Their strategy — produce to the highest quality standards and price aggressively — yields maximum benefits to you, the consumer. Therefore, these boats are an outstanding value with workmanship and materials of the highest quality. Though designed for outfitters, their rugged construction makes them an excellent investment for the private river runner. We carry several models in stock, and others are available on special order. Write for a free brochure.

112 RV-140HD The Achilles 140 is a good boat for extended paddle trips with 4-6 people. If extreme durability is your main concern, this boat should be your first choice. It's extra heavy-duty with 47 oz. Hypalon tube material and a 55 oz. wrap-up floor. The 6'8" beam provides stability, the 11" bow and stern rise maneuverability and its 18" diameter tubes deflect water to avoid the excessive wetness of some boats. 13'9" long, weighs 132 lbs. — motor freight.....\$1,600.00

114 RV-160HD This is a big heavy-duty raft that just begs to be loaded down! It has 47 oz. Hypalon tubes and a 55 oz. heavy-duty wrap-up floor that is reinforced with 4 wear patches in strategic points. If you want a really tough rowing raft that will last and last and don't care if you get stuck with all the heavy gear, buy this boat — it can handle it! 16' long, 7'4" wide, 20" diameter tubes, weighs 167 lbs. — shipped motor freight.....\$1,900.00



AVON

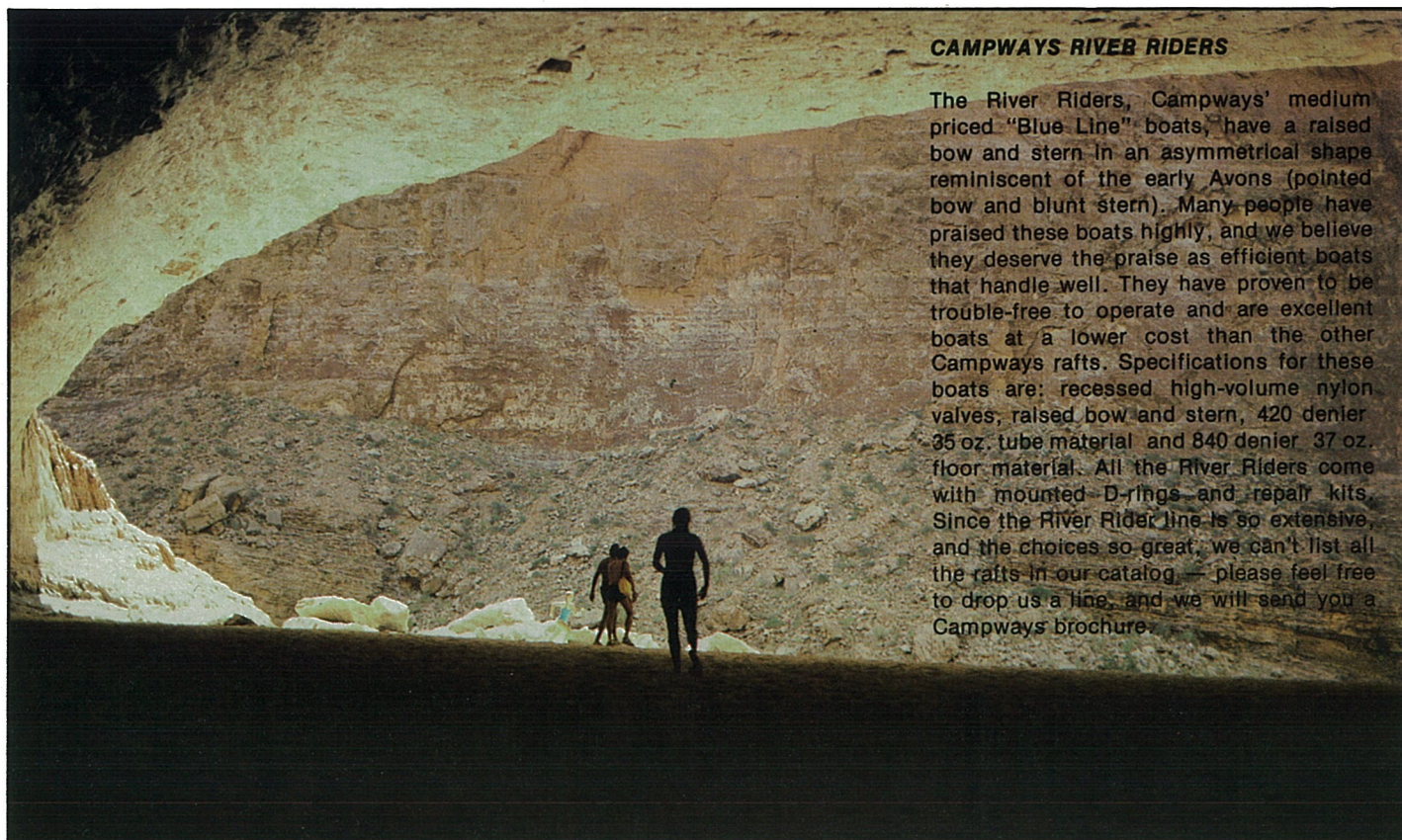
Avon has been the Cadillac of the rafting industry for many years, and they have an unmatched reputation for quality and durability. Their material carries a 5 year guarantee against deterioration and is stronger and more durable than any other material of comparable weight (it's coated with a very high percentage of Hypalon both inside and out). If you'd like to know more about their complete line of boats, write for a free Avon brochure.

115 AVON EXPLORER What do you do if your customers insist on using your dinghy (i.e. Redshank) as a river boat and then complain about its shortcomings? Design a river boat without the shortcomings. Avon's Explorer is a beautiful little raft that can double as a fishing boat or a dinghy. Small enough for real excitement, but with great features (D-rings, lifting handles, storage pockets, etc.) and extra beam and tube size for a comfortable trip. It's 12'4" long by 6'2"

wide, has 17" diameter tubes and weighs 83 lbs. — shipped motor freight. \$1,800.00

116 AVON ADVENTURER The Adventurer design is particularly desirable for large groups of paddlers because it provides enough room for up to 6 paddlers and their gear. Its 18" diameter tubes also make it an excellent choice for use as a small personal rowing boat. We recommend 9' oars, but 8 1/2' oars with magnum blades are okay, too. 13'9" long by 6'8" wide, weighs 99 lbs.....\$2,275.00

117 PROFESSIONAL The Pro has design features that make it very attractive to both private and professional river runners. Its combination of good capacity, ride, easy handling and unsurpassed durability has made the Professional the favorite for many western boaters. We recommend boaters use 10' oars on the Pro. It's 15'9" long by 7'4" wide, 20" diameter tubes, weighs 114 lbs.\$3,000.00



CAMPWAYS RIVER RIDERS

The River Riders, Campways' medium priced "Blue Line" boats, have a raised bow and stern in an asymmetrical shape reminiscent of the early Avons (pointed bow and blunt stern). Many people have praised these boats highly, and we believe they deserve the praise as efficient boats that handle well. They have proven to be trouble-free to operate and are excellent boats at a lower cost than the other Campways rafts. Specifications for these boats are: recessed high-volume nylon valves, raised bow and stern, 420 denier 35 oz. tube material and 840 denier 37 oz. floor material. All the River Riders come with mounted D-rings and repair kits. Since the River Rider line is so extensive, and the choices so great, we can't list all the rafts in our catalog — please feel free to drop us a line, and we will send you a Campways brochure.

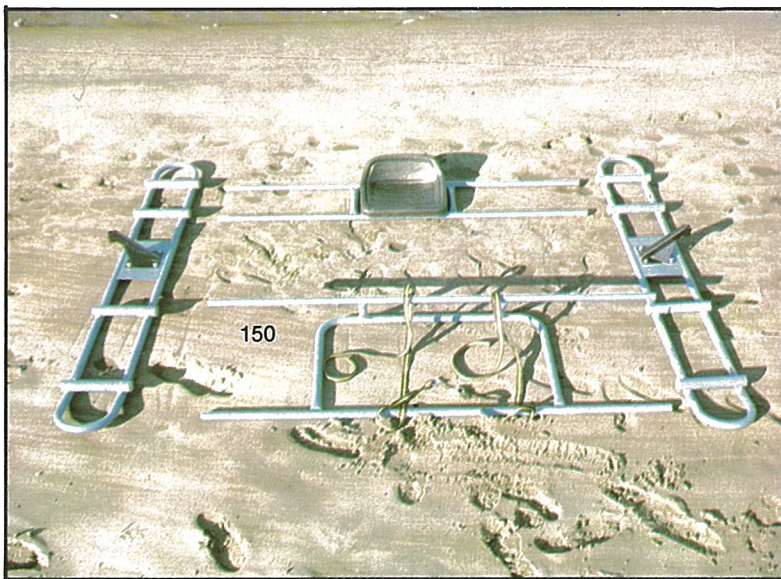
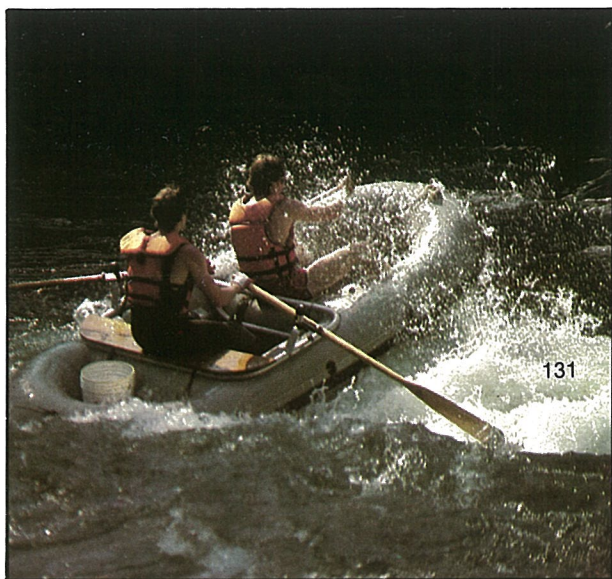


121 RIVER RIDER-13 This was Campways' second most popular boat in the River Rider series last year. With paddles or oars, this versatile boat gives a good ride and is just right for smaller parties (it can even double as a fishing boat). The boat is 13'1" long by 5'10" wide, has 17" tubes and weighs 83 lbs. — motor freight.... \$900.00

123 RIVER RIDER-14 Need a boat for a variety of rivers that has stability, carrying capacity and durability? Then try the River Rider-14 — it's at home in big water, yet is small enough — at 13'6" — to be very

responsive and maneuverable. 6'6" wide with 19" tubes, weighs 93 lbs. — shipped motor freight.....\$1,000.00

125 RIVER RIDER-15 River Rider's success in the smaller models has prompted Campways to bring out a new, larger sized model for 1981. The result is the River Rider-15. This boat is actually much larger than the other River Riders — 15' long by 6'11" wide — with 21" diameter tubes, 5 air chambers and a wrap-up floor. This boat is a welcome addition because of its large capacity at a medium price. Weighs 108 lbs. — shipped motor freight.....\$1,400.00



UDISCO

There really aren't any low-priced river rafts available, but the least expensive with a river-oriented design is the Udisco line. These boats have raised bows and sterns, 4 main air chambers and 2 inflatable thwarts. The material is a nylon fabric coated with various rubber compounds. They claim it is Hypalon, but it sure doesn't behave like Hypalon. We feel these are good entry-level boats for those of you just getting started or limited by a low budget. With normal recreational use and an extra measure of care these boats should last a long time. When they start to weather, add a coating such as the GACO Aluminum or Gray neoprene coating.

Please note: The "man" designations are leftovers from wartime survival standards and should not be used as recreational capacity indicators. We try to suggest realistic carrying capacity for each model in our write-ups.

131 6-MAN UDISCO This boat's dimensions have increased in the last year, making it a more comfortable 4 person paddle boat. When using a frame we recommend 7 or 7½ ft. oars (depending on frame design). It's great for short trips when fitted with our #157 Longhorn frame and makes an especially good fishing boat for 1 or 2 people. 11'6" long by 5'2" wide, 6 air chambers with small metal valves. Weighs 52 lbs. — can be shipped motor freight or Parcel Post.....\$310.00

133 8-MAN UDISCO The need for a small rowing raft is met very well by the Udisco 8-man. 6 large military type valves, its greater tube diameter (16") and its slightly larger size (11'11" long by 5'8" wide) contribute to its popularity. Depending on your frame design, we recommend 7½ or 8 ft. oars with this raft. Easily holds 4 people as a paddle boat, 3-4 people with a frame. Weighs 62 lbs. — can be shipped either Parcel Post or motor freight.....\$350.00

LARGE UDISCO RAFTS

These boats have really changed during the last 2 years. They now have many features of the more expensive rafts. Both models are equipped with 6 air chambers for safety and large military style valves that offer easy and fast inflation for convenience. These 10 and 14-man models also have laced-in thwarts which have an excellent reputation for air-tightness and can be removed if you wish to build a special frame. (Be careful to dry behind the lacings after use.) Both of these boats are a good choice for someone who needs carrying capacity on a limited budget.

135 10-MAN UDISCO This is a medium sized raft that is often paddled by 4-6 people. It's also a good budget raft for those longer trips where you really pile in the gear. The 10" bow and stern rise give it good handling characteristics, and the 18" tubes provide enough capacity for most uses. We suggest 8½ or 9 ft. oars with this raft and recommend the Carlisle magnum blades. 13'11" long by 6'3" wide, weighs 75 lbs. — can only be shipped via motor freight.....\$425.00

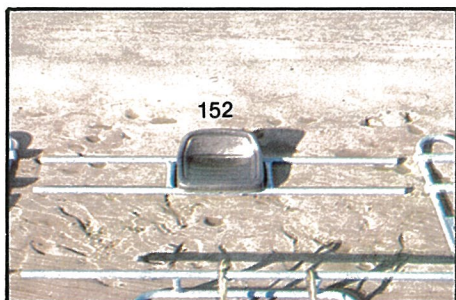
137 14-MAN UDISCO This was my first big boat, and I loved it. It's still a good buy for someone on a limited budget who needs a really big boat. The 11" bow and stern rise makes it easy to row, and even when heavily loaded it's pretty maneuverable because the large PAD (center area) keeps it from sinking down too far. The raised bow lets you ride over the transition at the bottom of a chute or falls, and the raised stern not only shortens the waterline and makes the raft more maneuverable, but keeps the stern from getting swamped in big water. We suggest 9 to 10 ft. oars with this raft (with a light load, 9 ft. Carlisle oars with magnum blades will really move this boat). 16' long by 6'8" wide, 21" tubes, weighs 92 lbs. — motor freight... \$540.00

Frames

150 UNIVERSAL FRAME This is a heavy-duty steel frame that breaks down into four main pieces — very convenient for transportation. 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 4 fast pins (included) and can be assembled and disassembled in seconds. The back cross piece has a form-fitting padded seat for the boatman while the front cross piece has a combination foot brace and cooler cradle. (An 80 quart Gott cooler (#815) fits it perfectly, but 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. We pre-cut the side members to fit your raft, but because individual raft dimensions vary slightly, we ship the cross members undrilled. Just assemble the frame on your raft and use a 5/16" bit to drill through the cross pieces at the appropriate points. The frame is painted with industrial enamel, but after a season or two it will probably need respraying to cover paint chips and wear spots. The entire assembly is 82" long by 69" to 72" (depends on the raft) wide and weighs 80 pounds. Steel is .065 wall, 1¼" electro-weld medium carbon steel. Fits most large rafts; please specify raft model when ordering. Shipped motor freight....\$300.00

151 SUPER FRAME This is the extra-large version of the Universal Frame. It's sized and braced to fit the really big boats (Achilles 160HD, Havasu, Spirit, Professional, Shoshoni Mark V, etc.) and measures 82" long by 77" to 84" wide (depending on the raft). Other specifications are identical to the Universal Frame except this frame is large enough to hold a 151 quart Igloo cooler. When ordering please specify raft model. Weighs 90 pounds and must be shipped motor freight.....\$325.00

152 PADDED RAFT SEAT This is the padded seat we include as a part of our Universal Frame. It's a foam padded steel seat covered with molded vinyl that is unbelievably comfortable, even on lengthy trips. Its real advantage comes when rowing in big water — the fitted seat gives you a feeling of security like a sportscar bucket seat and keeps you positioned much better than the smooth surface of a cooler or flat seat. Watch out — the black seat acts as a solar collector and can get pretty hot. (A splash of water will cool it right down.) You can "retro-fit" this seat on a homemade frame or an older (pre-1980) Universal Frame; it's sure to make rowing easier. Held on by four 5/16" screws (included)..... \$25.00



155 EXPEDITION FRAME Low cost technology makes this frame both simple and lightweight, but the real bonus is that it is so compact it can fit into the trunk of your car for easy transportation. It can be disassembled small enough to be flown into your put-in, or it can be stored in a closet during the winter. Because it can be disassembled so completely, we suggest you carry it in a bag so you don't lose any parts!

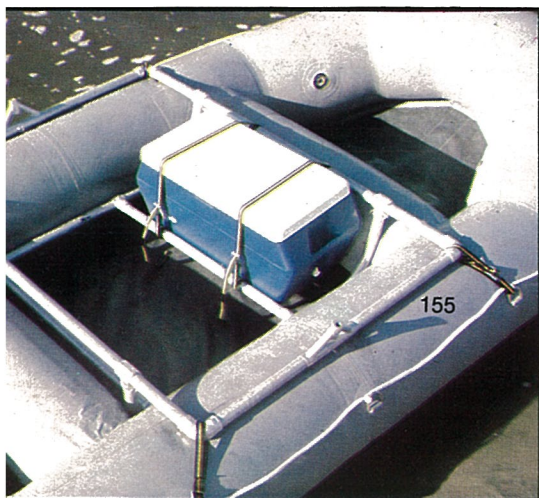
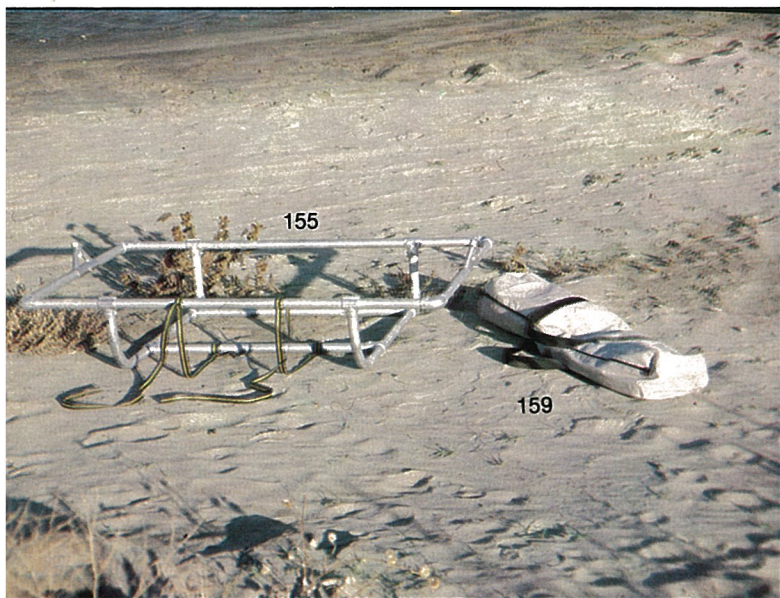
The frame is adjustable to fit you and your raft, and allows you to set the optimum distance between the oarlocks, the cooler and the foot rest. It uses a cooler for a seat — our 80 quart Gott cooler works great — but others will do as long as the top is strong enough and the cooler short enough to fit between the tubes with about 3½ inches to spare. An Ethafoam pad (#646) could be added for protection and for additional insulation for your cooler.

This frame, made of 1-5/8" OD 6061-T6 aluminum pipe, is both stronger and lighter than most competitive frames. Because it is relatively easy to manufacture (only a couple of bends are involved),

it is still inexpensive despite the top quality material used. The frame fittings are aluminum alloy pipe fittings with case-hardened set screws and recessed (Allen) hex heads. These fittings make a strong, lightweight, rigid frame that can take the toughest trip, yet store more compactly than any other frame. Because certain fittings tend to "work" against the set screws, we use special fast pins on critical joints for additional strength. In the unlikely event that a fitting should break, or a pipe bend, individual replacement parts and fittings are available.

Either pins and clips (#285) or open oarlocks (#300 or #302) will fit the aluminized integral stands included with the frame.

Tell us the boat you have, and we will size the frame to fit it. The weight of the frame for a Sport II, Scout, Avon Pro, or Shoshoni is approximately 38 pounds. Package size: 10" x 6" x 70". Comes complete with cooler straps, integral oarlock stands and three hex keys (careful, they are easy to lose). Shipped UPS.....\$200.00



157 SMALL LONGHORN FRAME Here is a day frame that is tough enough for big water, yet is still lightweight and economical. This Longhorn frame uses the same components as the aluminum expedition frame but has a slant seat instead of a cooler seat. This frame is designed to fit the Sprite II, 6 & 8-man Udisco, Avon Redshank, Campways Hopi and River Rider-10 & 13. It weighs just 25 pounds (including the slant seat) and disassembles into a 10" x 6" x 60" package. The frame has a front "longhorn" section, two side rails with integral oarlock stands, a rear cross piece and a wooden slant seat. Specify your boat, and we will size it to fit. Shipped UPS.....\$135.00

158 LARGE LONGHORN For those of you who prefer a slant seat frame, we provide the large Longhorn frame to fit the bigger boats: NRS Sport II, Scout, Achilles 140 & 160, Udisco 10 & 14-man, River Rider-14 & 15, Miwok, Shoshone, Avon Adventurer & Professional. This frame weighs 28 lbs. including the seat, and packs into a space 10" x 6" x 70". Tell us your boat, and we'll size it to fit. Shipped UPS.....\$145.00

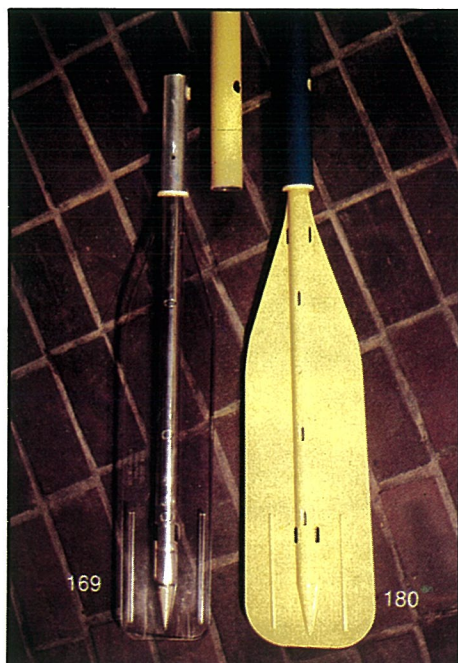
159 FRAME BAG For easy transport and storage, we suggest you use this bag for our new frames. This heavy-duty canvas bag (dimensions: 10" x 12" x 6") has a full length zipper and 2 wrap around web handles. Fits our Expedition and Longhorn Frames..... \$25.00

Oars

Carlisle makes oars in several models, ranging from standard to *extra* heavy-duty. If you see these oars at a lower price somewhere else, you'd better check — they are probably the standard or heavy-duty models. For lengths above 8 feet, we recommend and sell only the *extra* heavy-duty oars. They have a 1-3/4" diameter double thickness aluminum shaft with a 1/8" polyethylene outer sleeve and removable blade.

This year we have switched our recommendation from 5 1/2" standard blades to 8" wide magnum blades for all types of oarlocks. Beginners using open oarlocks might have difficulty at first because the magnum blades may twist in your grip, but stick with it — those large blades make a difference. Magnum blades have an added cost advantage in that you can go to an oar length a foot shorter than you are used to and still get enough leverage for good maneuverability. For those of you not convinced by my prejudices, we will continue to carry the standard width (5") blades.

Carlisle blades are now made of a new rugged material called STM (Super Tough Material) which retains its strength almost indefinitely. The secret? Carlisle STM isn't affected by ultraviolet rays — normally a cause of brittleness and breakage in standard materials. All Carlisle blades come with a push button for easy replacement or storage. Standard blades are available in clear STM only; magnum blades are available in clear or yellow. (If you don't specify a color choice, we will ship the clear ones.) All oar lengths except 11' and 12' can be shipped UPS. All sizes of oars are stocked with yellow shafts; 9' and 10' lengths are also available with blue shafts.



160	7 ft. Carlisle Oar.....	\$47.00
	(yellow shaft w/std. blade)	
161	8 ft. Carlisle Oar.....	\$50.00
	(yellow shaft w/std. blade)	
162	8 1/2 ft. Carlisle Oar.....	\$52.00
	(yellow shaft w/std. blade)	
163	9 ft. Carlisle Oar.....	\$59.00
	(yellow shaft w/std. blade)	
164	9 ft. Carlisle Oar.....	\$59.00
	(blue shaft w/std. blade)	
165	10 ft. Carlisle Oar.....	\$62.00
	(yellow shaft w/std. blade)	
166	10 ft. Carlisle Oar.....	\$62.00
	(blue shaft w/std. blade)	
167	11 ft. Carlisle Oar.....	\$65.00
	(yellow shaft w/std. blade)	
168	12 ft. Carlisle Oar.....	\$70.00
	(yellow shaft w/std. blade)	
169	Standard Replacement Blade —	
	(clear).....	\$25.00
170	7 ft. Carlisle Oar.....	\$47.00
	(yellow shaft w/Mag. blade)	
171	8 ft. Carlisle Oar.....	\$50.00
	(yellow shaft w/Mag. blade)	
172	8 1/2 ft. Carlisle Oar.....	\$52.00
	(yellow shaft w/Mag. blade)	
173	9 ft. Carlisle Oar.....	\$59.00
	(yellow shaft w/Mag. blade)	
174	9 ft. Carlisle Oar.....	\$59.00
	(blue shaft w/Mag. blade)	
175	10 ft. Carlisle Oar.....	\$62.00
	(yellow shaft w/Mag. blade)	
176	10 ft. Carlisle Oar.....	\$62.00
	(blue shaft w/Mag. blade)	
177	11 ft. Carlisle Oar.....	\$65.00
	(yellow shaft w/Mag. blade)	
178	12 ft. Carlisle Oar.....	\$70.00
	(yellow shaft w/Mag. blade)	
179	Magnum Replacement Blade —	
	(clear).....	\$25.00
180	Magnum Replacement Blade —	
	(yellow).....	\$25.00

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

181	Yellow.....	\$10.00
182	Blue.....	\$10.00

SMOKER ASH OARS For the purist there is nothing like the flex and smoothness of a pair of ash oars. We think Smoker makes the best ash oars around — their #1 quality oars are beautifully turned and ready for

you to finish. Please note: 8 ft. and longer must be shipped motor freight.

191	7 ft.....	\$21.00
192	7 1/2 ft.....	\$24.00
193	8 ft.....	\$49.00
194	8 1/2 ft.....	\$60.00
195	9 ft.....	\$62.00
196	10 ft.....	\$80.00

RAFTING PADDLES

Rafters need slightly longer paddles than canoeists, especially in a boat with large tubes. We have found both the Mohawk and Carlisle paddles to be very satisfactory for rafting.

CARLISLE RAFTING PADDLE Designed for whitewater use, this paddle has about the same blade area as the standard Mohawk but is much stiffer and stouter. (You may have seen Carlisle's ad which featured his paddle being used to split wood.) We don't recommend using this paddle as an axe, but if durability and long life are more important to you than feel, this is a good choice. 8" x 26" STM blade, plastic covered 1-1/8" diameter aluminum shaft, T-grip handle, weighs 2 1/4 lbs. in the 60" size. Lengths: 56" and 60".

198 56" or 60" length.....\$17.00 ea.

SPECIAL: 3 or more paddles. \$16.00 ea.

STANDARD MOHAWK PADDLE These paddles are an outstanding buy. The 1-1/8" diameter shaft is anodized, has a heat-shrink vinyl shaft grip and a molded plastic T-grip which is comfortable and gives good control. The tough 8" wide ABS plastic blade has a metal insert and can take a 45° bend in the lower blade without suffering ill effects. The blade and T-grip are pressure-fitted onto the shaft, and the result is a waterproof (it floats) paddle. We offer four lengths: 54", 57", 60" and 63". 60" is the most common choice for rafting use. 60" length weighs 2 lbs., 1 oz.

650 (54", 57", 60" or 63").....\$12.00 ea.

SPECIAL: 3 or more paddles. \$11.00 ea.

MAGNUM MOHAWK PADDLE This paddle is identical to the #650 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 paddle and see results. Offered in 54", 57", 60" and 63" lengths; again, most rafters prefer the 60" size. 60" length weighs 2 lbs., 2 oz.

651 (54", 57", 60" or 63").....\$16.00 ea.

SPECIAL: 3 or more paddles. \$15.00 ea.



BLOWERS AND PUMPS

BIG BLOWER If you have access to 110 volt, 6.5 amp, AC or DC, this pump is the answer. It gives up to three pounds pressure and will inflate an Avon Spirit in under five minutes! There just isn't anything on the market even approaching this for quality and speed. The electric motor is 1 full horsepower, and it puts out 60 cubic feet per minute. The blower motor is cooled by the air flow around it so when topping off make sure you let some air escape around the valve. This is particularly important when using the blower to deflate a boat (otherwise you can burn the motor out). Cannot be connected to a 12-volt battery.

202.....\$90.00

BARREL PUMP A well designed pump with a fine balance of features that improves the pump without excessive frills. It features an aluminum handle, foot pad and inflation nozzle, precision valves and a heavy duty 40" inflation hose. The 5½" x 18" ABS barrel puts out a lot of air and has ports for inflation and deflation. We stock spare parts. Nozzle fits Sport, Campways, Avon and other military style valves.

204.....\$75.00

CARLSON PUMP Carlson's pump has become a standard with outfitters. It has a simple sturdy design. It "breathes" through the easy to grip handles and has a leather cup and a brass valve that should last a lifetime. By running a line through the handle and the two holes in the bottom, you can easily lash the pump out of the way under a frame seat. Extra durable — it works forever and has a manufacturer's lifetime guarantee against defects in materials. We carry the 4" size which is just right for private parties, where everybody can take their turn to get the boats up in a hurry. Stroke 21", Bore 4" and has a 6½ ft. plastic hose.

205.....\$75.00

NRS PUMP We import these pumps ourselves to assure the quality is maintained. Heavy duty steel hinge, 8" x 12" solid molded rubber top and bottom (molded around steel plate for strength). This pump includes the #208 rubber valve adapter that fits all the boats we offer.

206.....\$37.50

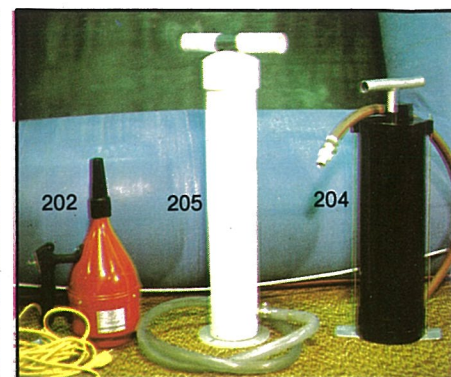
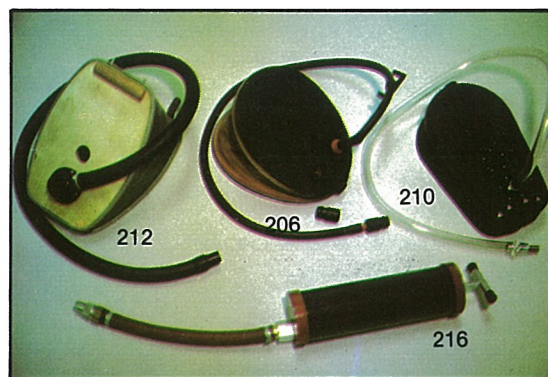
NRS VALVE ADAPTER Use this rubber adapter to fit any boat with military style valves or our 2 piece one-way valves. Necessary for the #206 NRS pump only but can be adapted for other pumps.

208.....\$75

CAMPWAYS PUMP Campways has had a lot of problems in the last two years, but they back their products and we hope for better pumps this year. Fits military style valves.

210.....\$48.00

Rafting Accessories



AVON PUMP A foot pump of unsurpassed quality designed to fit military style valves.

212.....\$60.00

HAND PUMP This 3" x 12" pump is super for topping off most any raft with military style valves (low volume — high pressure). Same superior quality as the #204 Barrel pump.

216.....\$27.50

INFLATION GAUGE Good control of tube pressure is necessary for a well run river trip. The very best low-pressure gauges cost \$40.00, but these medium-pressure gauges do a very serviceable job with the more expensive rafts. Be careful, don't overfill your boat just because you have a pressure gauge. Fits all boats except Sprite II, Scout and 6-man UDISCO.

219.....\$10.00

ADHESIVES/THINNERS/CLEANERS

No matter what the material or adhesive you use, the following steps should be followed when repairing a raft:

1) Prepare the surfaces (both boat and patch) by roughing it up, using a sandstone, rasp, sandpaper or anything to abrade the surface.

2) Clean the surface with cleaner, if possible (do not use an oil base solvent such as paint thinner).

3) Apply the adhesive and wait (follow the directions because each type seems to require different drying times) — the most common error is not letting the adhesive dry enough. Best results are obtained if you allow the adhesive to dry beyond tacky dry.

4) After contact, press the surfaces together with a roller, the side of the adhesive can, or any other means you can come up with. The more forceful the contact, the better the bond.

We have found the Carboline F-1 Neoprene adhesive to be an excellent all-purpose one-part adhesive for use with all types of

Hypalon, neoprene and other rubber materials. It's what we use here in the store and on all of our river trips when we have problems. The 3 oz. tube is our choice of the way to carry adhesive because it doesn't dry out in the tube and is easy to pack (especially if you can get someone else in your party to carry a quart for major repairs). It does tend to puncture though, so you should wrap it in a 6 oz. juice can or other protector. The 2-part Bostik adhesive is a little more difficult to work with than the Carboline — but Avon recommends it for use with their boats, so we offer it.

To prepare a raft for either patching or painting, the surface should be chemically cleaned. Our thinner/cleaner does this quite well — but beware of the fumes. We feel painting a raft prolongs material life by providing abrasion resistance and offers protection from ozone and UV deterioration. Though the aluminum color reduces heat build-up more, the gray paint is thicker and provides more abrasion protection. This GACO Neoprene coating should be mixed with thinner/cleaner before you roll or brush it on (ratio: 1 part thinner to 4 parts coating). One gallon will do a large raft (tubes only — not the floor). Since neoprene coatings don't bond well to Hypalon, we recommend that you only paint rafts manufactured in neoprene or EPDM materials (UDISCOs). CAUTION: After painting, thoroughly dry your boat before folding for storage. Covering the dried surface with talcum powder is also a good idea. NOTE: All of these items are flammable and can only be shipped UPS ground or motor freight so please do not ask us to mail them to you.

CARBOLINE ADHESIVE

231 3 oz. tube.....\$3.00

CARBOLINE ADHESIVE

233 Quart.....\$10.00

BOSTIK 2 PART

239 1/4 ltr.....\$7.50

GACO THINNER/CLEANER

242 Quart.....\$8.50

GACO THINNER/CLEANER

243 Gallon.....\$22.00

ALUMINUM COATING

245 Quart.....\$13.00

ALUMINUM COATING

246 Gallon.....\$45.00

GRAY COATING

247 Quart.....\$13.00

GRAY COATING

248 Gallon.....\$45.00

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

BLACK LETTERING PAINT

Why not personalize your boat? This neoprene paint works well on all river boats.

249 Quart.....\$13.00

PATCHING ITEMS**REPAIR KITS**

All kits include a 6" piece of the appropriate material, a roller/rasp, an assortment of small patches and a tube of Carboline Adhesive, all in a wide mouth poly bottle. (Flammable, no parcel post or air shipments, please.)

UDISCO REPAIR KIT 55" wide gray Udisco type material.

251.....\$9.00

RIVER RIDER REPAIR KIT 52" wide blue River Rider material.

252.....\$11.00

NRS REPAIR KIT 55" gray Sprite/Scout material.

253.....\$9.00

CAMPWAYS REPAIR KIT 55" gray Campways material.

254.....\$13.00

SPORT REPAIR KIT 42" gray Sport material.

255.....\$10.00

AVON REPAIR KIT 55" gray Avon material.

256.....\$12.00

NYLO-FLEX PATCHES These patches are excellent for use on all types of boats (nylon-reinforced patches are the best thing for a sturdy patch on a small hole) and can be used with any of the adhesives we offer. (Because the surface is semi-curved rubber you only need to put the adhesive on the boat.) These are just great for smaller holes in the bottom or tube. Contains one 6", two 3½", three 2½" and four 1½" patches.

259.....\$2.50 set

UDISCO MATERIAL This Udisco type material is what we use to patch rubber-coated rafts (Udisco's, yellow duckies, etc.). Material is light gray on one side and buff on the other. A roll is 55" wide, cost is per running foot. Fabric is 30 oz. 420 denier.

260.....\$5.00 ft.

RIVER RIDER MATERIAL This is blue tube material for the River Riders. 35 oz. 420 denier, 25% Hypalon material that is 52" wide, sold by the running foot.

261.....\$8.00 ft.

RIVER RIDER FLOOR MATERIAL Black River Rider floor material that is 37 oz. 840 denier, 55" wide and sold by the running foot.

262.....\$12.50 ft.

SPRITE/SCOUT MATERIAL Gray material for our Sprite and Scout that is 30 oz. 420 denier, 65% Hypalon. The roll is 55" wide, and the material is sold by the running foot.

263.....\$6.00 ft.

NRS FLOOR MATERIAL The same floor material that's used on the Sprite and Scout; in fact, good for patching any boat floor. 38 oz. 840 denier, black material that is 55" wide. Sold by the running foot.

264.....\$6.00 ft.

CAMPWAYS MATERIAL Gray material for the Campways Red Line boats. 37 oz. 840 denier, 60% Hypalon material sold by the running foot; 55" wide.

265.....\$13.00 ft.

CAMPWAYS FLOOR MATERIAL Black floor material for the Campways Red Line boats. 60 oz. 1200 denier, sold by the running foot; 55" wide.

266.....\$14.50 ft.

SPORT MATERIAL Gray, 40 oz. 840 denier, 80% Hypalon for patching the Sport II. Sold by the running foot; roll is 42" wide.

267.....\$8.00 ft.

AVON MATERIAL 35 oz. 840 denier, 85% Hypalon for the Avon rafts. Gray material is 56" wide, sold by the running foot.

268.....\$10.00 ft.

ACHILLES MATERIAL 45 oz. 840 denier, 80% Hypalon for the Achilles river boats. Color is gray; roll is 42" wide; sold by the running foot.

269.....\$10.00 ft.

ROLLER/RASP Use the rasp to rough up the surface after it's clean. Then run the roller over the patch to get a good bond. Very practical and an excellent buy.

270.....\$1.50

PROFESSIONAL ROLLER The large wooden handle gives a better feel and is not as tiring to use as the #270 roller.

271.....\$4.25

SEWING AWL Bill McGinnis mentions sewing tears before patching in his book, *WHITEWATER RAFTING*. For those of you who want to sew, here's a practical little sewing awl that comes with a pair of needles and 20 yards of thread (and conceals them within the handle for easy storage). However, tests have shown straight patching to be stronger — and my prejudice says only tack sew to line up very big tears for patching. Great when used to sew sheep skin jackets, vests, etc!

273.....\$3.50

EXTRA NEEDLES Two extra needles for the #273 Sewing Awl, one straight and one curved.

274.....\$1.75 pr.

EXTRA THREAD 30 yards of coarse waxed thread for use with the #273 Sewing Awl.

275.....\$1.00

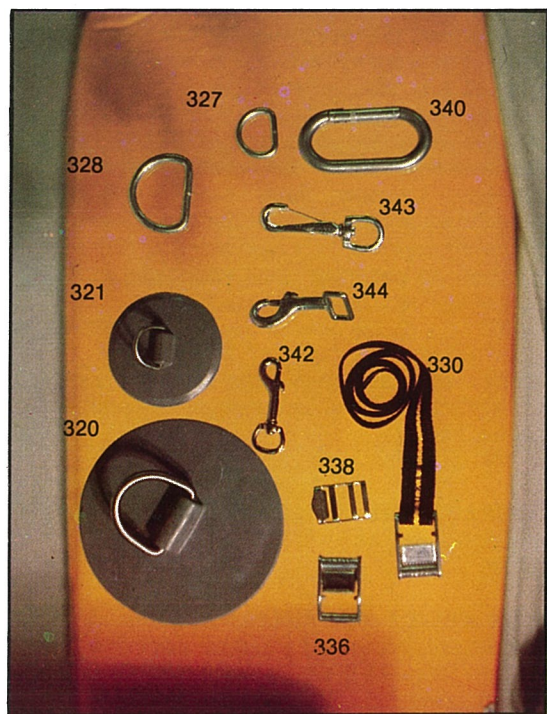
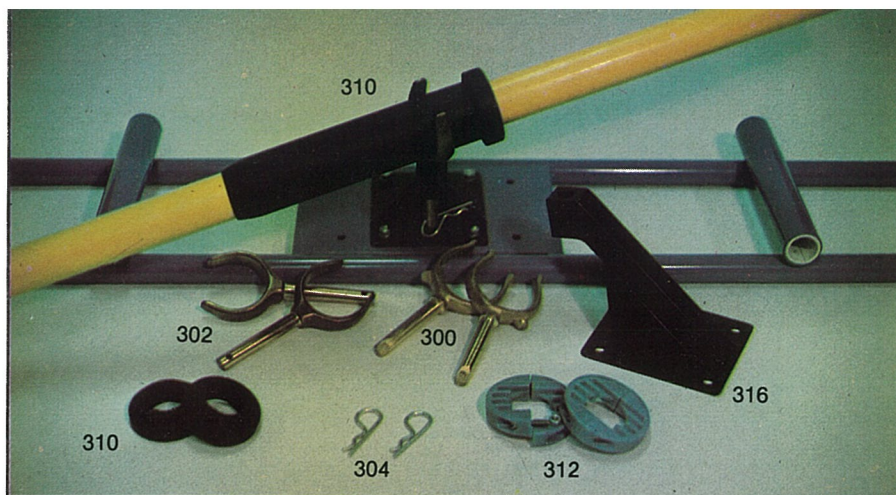
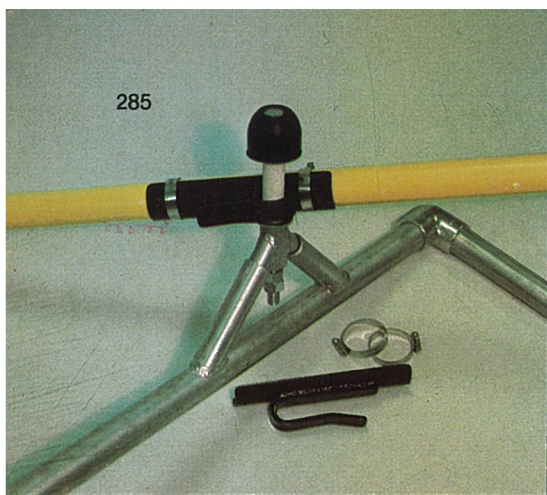
FINE NEEDLE AND THREAD 30 yards of fine waxed thread and a special needle to match. Use with the #273 Sewing Awl.

276.....\$1.75 set

DUCT TAPE — This is good stuff and has many uses for patching and repairing. We carry a special ARNO tape which has a polyethylene film to make it more water resistant, much better than the cheap stuff you find at discount stores. Roll measures 2" x 60 yards.

278.....\$7.50





OARLOCKS/STANDS/STOPPERS

PINS AND CLIPS Over the last few years many boaters have switched to pins and clips. They are now so popular that over 75% of our customers order them. Pins and clips give you more confidence and power in your strokes, because they keep the blade vertical and hold the oar in position. However, you can't feather the oars or readily pull them in so you lose some useful rowing maneuvers. This loss of flexibility and subtlety in rowing is a nuisance, but the few times you need a really powerful stroke more than make up for those losses. Beginners overwhelmingly prefer these over open oarlocks, and they are perfect for the new wide blade oars. The set contains two 5/8" diameter pin assemblies, plus the 2 clips and 4 hose clamps for fastening the clips on the oar.

285.....\$27.00 set

EXTRA CLIP When using our #285 Pins & Clips, spare oars must have clips mounted before use, so here they are. Includes 1 clip and 2 hose clamps.

286.....\$9.00 ea.

EXTRA HOSE CLAMPS You don't need these for strength, but double clamps do look very professional on your clips. Besides, extras are handy in repair kits.

287.....\$1.25 pr.

EXTRA PIN ASSEMBLY If somebody in your party dumps a raft and loses an oarlock (wood frames are particularly susceptible to this injury!) you'll need a pin as the basis for your jury-rig. Assembly includes: 5/8" diameter bolt, rubber cap, nuts, washers and PVC bushing.

288.....\$4.50

EXTRA PVC BUSHINGS These bushings fit on the pin shafts and are designed to absorb the friction so your clips last forever. Consequently, these don't! However, you can turn a worn pair upside down and get a lot more wear before you need a replacement.

289.....\$1.00 pr.

MANGANESE BRONZE OARLOCKS Until we found the silicon bronze oarlocks, these were the best horn oarlocks available. When forced open these can be pounded back together (for smaller ash oars you may want to close the throat to about 1 1/2"). The 3 1/2" long by 5/8" diameter shaft is sized and polished to fit a 5/8" socket and drilled for a keeper. (Filing or polishing the inside of the horn is a good idea, too.) When using Carlisle oars, use the #310 Molded Oar Sleeve or wrap the oarlock with 1/8" Nylon cord to insure a proper fit. Horn opening is 2" with a 2-5/8" ID.

300.....\$10.00 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 horns are polished, the 5/8" diameter by 3-3/4" long shaft is drilled for keeper; horn opening is 2" with 2-5/8" ID.

302.....\$21.50 pr.

HAIRPIN COTTERS Strong, secure, and convenient — hairpin cotters are a practical way to fasten your oarlocks into the stands.

304.....\$.50 pr.

MOLDED OAR SLEEVE It has been frustrating to use Carlisle oars in open oarlocks because the stoppers and sleeves didn't attach or fit well. Radiator hose has worked as a sleeve, but there was still no stopper solution. Now technology has stepped forward to an integrated stopper and sleeve that's designed particularly for Carlisle oars. The injection molded polyethylene sleeve/stopper combination fits easily over the oar and is then tightened with a set screw. Not only a great improvement in quality and design over other methods, but easily adjustable should you decide to shift the oarlock position. Overall length is 11" and the inside sleeve diameter is 1-1/8". Outside sleeve diameter is 2 1/4", stopper diameter is 3".

310.....\$5.25 ea.

RUBBER STOPPERS Rubber oar stoppers are used to keep ash oars from sliding through the oarlocks. Some people use a radiator hose clamp on the stopper shoulder to hold it in place, or you can glue or tape them into position (silicone rubber cement seems to be the best for gluing). Not recommended for use with Carlisle oars.

311.....\$4.00 pr.

PLASTIC STOPPERS Adjustable oar stoppers made of heavy duty plastic with locking bolts on each side. Can be shaped to fit the oar and hold firmly in place. Recommended as well worth the extra cost and effort. Will not fit Carlisle oars.

312.....\$5.95 pr.

1/4" NYLON ROPE To protect your ash oar from the oarlock, we suggest 1/4" nylon rope (anything from 1/8" to 3/8" will do), wrapped tightly and tacked in place with very small brads. Always pull the rope ends under the wrap (make sure the ends are on the top of the wrap — not on the sides where they will interfere with the oarlock), and then tack them down (too many brads or too large a brad may weaken the oar). This is what we wrap wooden oars with; usually 35' is needed per oar. Not recommended for Carlisle oars.

314.....\$.10 ft.

OARLOCK STANDS These stands are professionally designed and manufactured for heavy-duty river use. They have a 5¼" x 5½" steel base with 4 mounting holes and welded steel bracket that gives a 6" rise. The socket itself is 5/8" diameter, with a 14 degree outward tilt for correct oar alignment. The built-in rise and tilt make it much simpler to build a quality frame yourself. Stands can be used with any oarlock that has a 5/8" diameter shaft.

316.....\$34.00 pr.

WYNN SOCKETS Designed to be fastened to the outside of a wood block. Has an angle plate with holes for screws or bolts. These are good set-ups but not as heavy-duty as they should be for big rafts. Use with any 5/8" diameter oarlock.

317.....\$2.25 pr.

WYNN CLAMPING OARLOCKS These lightweight, clamping oarlocks fit the Wynn sockets and work fine on homemade frames for a cheap but serviceable rowing set-up. We don't recommend them for whitewater use. They will not work on longer ash oars (8 ft. and up), or any length of Carlisle oar. 5/8" diameter shaft.

318.....\$6.50 pr.

D-RINGS AND HARDWARE

2" D-RING PATCH It's about time for technology here, and Achilles did it — molded one-piece nylon-reinforced 6½" D-ring patches with a 2" stainless steel D-ring. A much better solution than all the others. Don't hesitate to buy these — we back them and will replace any D-ring that fails in the first two years of use.

320.....\$10.00

1" D-RING PATCH Same high quality as the 320 Patch, but this one is a smaller patch for tying in cargo, etc.

321.....\$4.50

UNGLUED D-RING PATCH Save yourself some money and glue these excellent patches yourself. 7½" diameter outer patch, 1-3/4" diameter cadmium plated steel D-ring, Udisco type material.

325.....\$5.00

1-3/4" D's These cadmium plated steel D's are what we use in our #325 D-Ring Patches. If you like to do it yourself and don't mind a low return on your time here's the ring to make your own D-ring patches. Package of 5.

326.....\$1.50 pkg.

1" D's High quality cadmium plated, heavy-duty welded steel 1" D's. For use in making your own gear tie-down points or whatever. Package of 10.

327.....\$1.50 pkg.

1-3/4" WEBBING This is the heavy-duty webbing that we use on our #325 D-Ring Patches.

328.....\$20 ft.

1" WEBBING Poly webbing for use in making up your own straps, D-rings, etc.

329.....\$10 ft.

3 FT. HD STRAP We spent a lot of time searching for a really good buckle for heavy-duty use. Finally, we found a maker of cargo slings that had a really sturdy buckle with an instant thumb release and a strong 1" strap. Boats can really pull on frame tie-downs — this set-up has the strength to take extreme conditions. They make a great belt, too! (About 32" maximum waist size.)

330.....\$2.40

6 FT. HD STRAP Same quality as the #330, only 6 ft. long for tying down gear. Also, if the 36" strap won't fit your waist (sob!) you can cut this one down (I did).

331.....\$2.70

9 FT. HD STRAP Our high quality 9 ft. strap — for tying down coolers, etc.

332.....\$3.00

12 FT. HD STRAP For strapping bags across the back of your frame these 12 ft. straps are the answer.

333.....\$3.40

15 FT. HD STRAP Sometimes 9 or 12 ft. straps aren't quite long enough for me — so here's my answer — a 15 ft. strap.

334.....\$3.75

HD BUCKLE We know some of you will want to make your own straps, so here is the HD cam-action buckle that we use in our heavy-duty straps.

336.....\$2.00

1" HD WEBBING This is the tough webbing used on our HD straps. We know the price is high in comparison to the straps, but that's the way it's priced to us.

337.....\$20 ft.

STANDARD BUCKLES Great for poly or nylon webbing, these are easy to cinch up and release — get some webbing, sew your own straps — and get rid of that mess of ropes you've been using to tie down gear. Not recommended for use as frame tie downs, package of 10.

338.....\$1.00 pkg.

CARABINERS Climbing gear that's crossed over to rafting. These are very useful for tie-ons to frames, etc. The large diameter eye (measures 1-1/8" x 3¼") makes them especially good for larger rope (1/2" or more). These have a spring-loaded "gate" that opens inward (to approx. 3/4"), making it easy to pull things off in a hurry.

340.....\$4.75

BOLT SWIVEL SNAP These are cast maleable iron and not cheap pot metal. They are handy for baggage lines, bailers, etc. Bill McGinnis doesn't think much of them because he says they might not stay closed in emergencies (WHITEWATER

RAFTING), but they have never given us any trouble, and we like them. Overall length: 3", diameter of eye: 5/8".

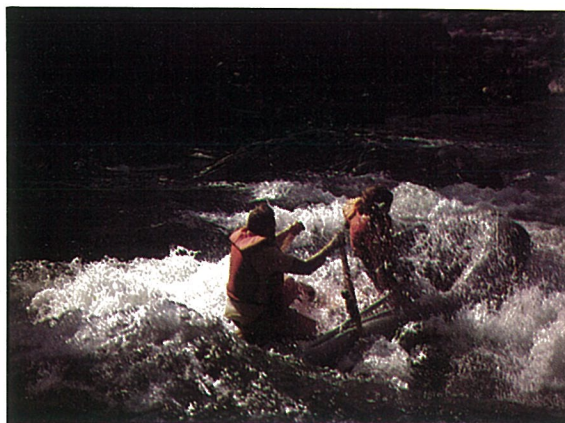
342.....\$1.00

SPRING SWIVEL SNAP These are the type recommended by McGinnis. Excellent for attaching to the end of a throw line when rescuing a raft. Overall length: 4", size of eye: 5/8", cast maleable iron.

343.....\$1.25

WEBBING SNAP This is our choice for a heavy-duty snap to attach 1" webbing for tie-downs, etc. Note: this is not a swivel snap.

344.....\$1.00





1/4" SHOCK CORD Nylon covered shock cord for lots of uses. We use it to make loops for spare oars — snug fit, yet easily available in an emergency. There are many other uses as well.

346.....\$20 ft.

1/4" POLY-ROPE This 12 strand braided polypropylene rope is more flexible, rugged and softer to the touch than conventional poly-rope. This is what we recommend for lashing in gear because, unlike nylon, the knots will not tighten when wet. Floats. Tensile 1300 lbs.

347.....\$10 ft.

3/8" POLY-ROPE Bill McGinnis (WHITE-WATER RAFTING) says rafters should always carry a spare 200 ft. coil of 3/8" poly-rope. (He also recommends 100 ft. of this type of rope as bow and stern lines.) Keep it coiled and protected, but readily available for emergency conditions. Cheap insurance. Floats. Tensile 2000 lbs.

348.....\$10 ft.

1/2" POLY-ROPE We've found this hollow braided rope to be the most practical rope on the market for a lifeline around the raft. Big enough to get a good grip on and yet easy to work with (braids back into itself to go around D's and tie-downs, etc.). Also good for general purpose rope if you don't feel 3/8" is large enough. Floats. Tensile 2500 lbs.

349.....\$15 ft.

1/4" NYLON ROPE This is the rope we use to wrap wood oars with. (See write-up in oarlock section.) It can also be used to tie down gear but we prefer the #347 1/4" poly-braid rope.

314.....\$10 ft.



MISCELLANEOUS ACCESSORIES

Boat bags make good sense to protect, transport and store your boat. We looked at desirable characteristics and decided that they: must be tough and abrasion resistant to protect the boat; should allow for easy air circulation to disperse any moisture inadvertently left on the boat; should open and close easily and be handy to carry. For the bag itself, we discovered a super-tough, open weave PVC-coated industrial fabric that is ideal — and reasonably priced. We had tough web handles and a 3/16" rope and toggle drawstring added to bags manufactured from this material. The result? Performance at a price you can afford.

SPORT BAG Fits Sport, Scout, Achilles 140 HD and 160 HD, River Rider 14 and 15, Udisco 10 and 14-man, etc. Two web handles. Dimensions are: 60" L x 34" W.

103.....\$17.50

SPRITE BAG Fits Sprite II, Hopi, Explorer, Udisco 6 and 8-man, River Rider 10 and 13, etc. Single handle. Dimensions are: 34" L x 27" W — also can be used as an all purpose bag for life jackets, wet suits, pumps, etc.

106.....\$15.00

RESCUE ROPE Dragonfly Designs produces quality products, and this rescue rope is no exception. It's 60 feet of 2,000 lb. test 3/8" solid/braid rope in an orange nylon bag (it floats) that's always ready to throw. The snap-strap insures easy unhooking from the raft or canoe, both ends of the rope are treated with a nonslip material, and the bag keeps the rope out from under your feet. If you should miss with your first throw, then pull it back in and try again (no need to recoil the rope, water in the bag will provide enough weight to throw it a second time). There are now a number of Rescue/Throw ropes on the market — but this one is the best and is well worth the few extra dollars.

370.....\$29.00

THRO-LINE The folks at Whitewater Sports spent a lot of time working on the

details of this rescue line. Most importantly, they agreed that both the bag and the line should float, and they do! The Thro-line is 60 ft. of 3/8" diameter 2700 lb. test polyester-polypropylene rope in a bright orange nylon bag with an ethafoam flotation ring in the bottom of the bag. The line not only floats, but it also has excellent grip when wet (something we feel is very important). This bag may well be the best value for your money.

372.....\$21.00

OTTER BAG The Otter Bag is another great idea from Dragonfly Designs. It ties onto a thwart or seat as a catch-all for all those items lying around the boat: sweaters, suntan lotion, empty beer cans, maps, etc. Now it's been improved, with a velcro-flap closure that keeps things from falling out if you dump your boat (and all true club members should go to any length to keep their empty beer cans out of the water). Designed for canoes, but great for rafts. Made of a 1.9 oz. rip-stop K-kote nylon with a firm backing for easy opening. Measures 15" x 12" — really practical.

375.....\$8.75

VINYL GLOVES These rafter's gloves are light, yet very strong, and provide a better grip than your bare hands. The coating seems to be the same stuff applied to tools to provide a good grip. We don't know how they do it, but the coated fabric breathes and provides reasonably good ventilation. They dry out quickly and so protect your hands without letting moisture cause blisters. Try them for canoeing, or windsurfing. Some of us even use them for racquetball. Really a super deal because they last for hundreds of miles. Also provides very little warmth for chilly days. Sizes run a bit small: S, M, L and XL.

376.....\$5.00 pr.

CROAKIES Most eyeglass holders are uncomfortable — these aren't! These are made of neoprene sponge (wet suit material), and I sometimes forget I'm wearing them. These do a nice job and comfort ought to be worth...

378.....\$3.00

Life Jackets

For lakes, you might save some money and buy cheap vests at a discount house. For whitewater use get something good! Before selecting a life jacket, you should know something about buoyancy. When referring to a person, buoyancy is the force necessary to keep afloat and keep the head and chin above water. Because most people don't have enough natural buoyancy to do this, the difference is made up with a life jacket. Most people require 15 pounds or less buoyancy in a life jacket.

We carry Type I, III and V Coast Guard approved life jackets. The Type I provides the greatest amount of buoyancy (25 lbs.) and should turn an unconscious person upright and slightly back and keep him in that position. Type IIIs are designed so that the wearer can place himself in a vertical, backward position, and the jacket will keep the person in that position. A Type V is approved for special uses, in our case, a foam-filled jacket designed especially for rafters.

TYPE I LIFE JACKET For maximum protection at a low cost, we offer the commercial all-vessel jacket (Mae West type). This universal jacket (fits all adults over 90 lbs.) has kapok-filled vinyl pouches that provide at least 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 (do not compress) to avoid puncturing the vinyl pouches.

400.....\$28.00

WHITewater LIFE JACKET This Stearns jacket has a solid feel and performs well in the water. These Type V/III jackets are very popular due to their greater dependability and comfort when compared to the Type I jacket. One chest strap and two adjustable side straps provide a good fit and offer a secure feeling. It has a coated orange nylon outer shell, solid ensolite foam filler that provides at least 22 lbs. flotation and a padded foam filled collar that provides some behind-the-head protection when you're in the water.

404 — S (SM/MED fits up to 40" chest)
404 — L (L/XL fits 42" and over).....\$55.00

DELIVERANCE LIFE JACKET Deliverance — crummy name — good kayaking jacket. This Type III jacket does not have as much flotation as the Type Vs and IIs, but is more comfortable and pleasant to wear for any



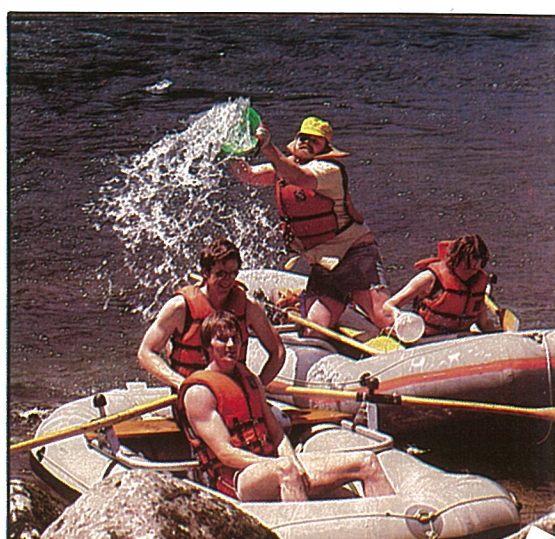
river use. Because of its comfort, it is being used a lot more now for all types of whitewater use (rafting, kayaking and canoeing). This Stearns jacket has ribbed foam flotation (15½ to 17½ lbs. depending on size) in nylon shell. The bottom section may be worn up (probably should be for kayaking so you won't mess up on your roll). Has a good zipper, snap at the bottom and cloth tie at the waist. Blue (410) and bright yellow (411).

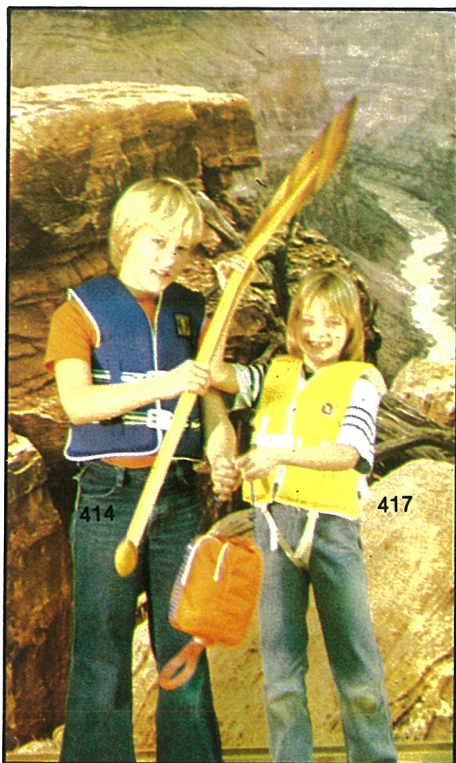
410 — XS (fits 32"-34" chest)
410 — S (fits 36"-38" chest)
410 — M (fits 40"-42" chest)
410 — L (fits 44"-46" chest)
410 — XL (fits 48"-52" chest).....\$36.00

411 — XS (fits 32"-34" chest)
411 — S (fits 36"-38" chest)
411 — M (fits 40"-42" chest)
411 — L (fits 44"-46" chest)
411 — XL (fits 48"-52" chest).....\$36.00

HARISHOK LIFE JACKET This is a very comfortable Type III jacket. The foam is cut into a trapezoidal shape (remember high school geometry?) to give a secure fit without binding. The armholes are cut extra deep and the fabric lining is very soft. The elasticized lower hem and full-length zipper make it a bit difficult to fold this jacket up at the waist, so kayakers may not like it as much as the Deliverance jacket. The sizes fit a broad range, but seem to fit shorter people better than tall people because they are cut shorter. Sizes run big. Bright Yellow.

412 — S (fits 28"-35" chest)
412 — M (fits 35"-40" chest)
412 — L (fits 40"-45" chest)
412 — XL (fits 45"-50" chest).....\$40.00





AMERICA'S CUP LIFE JACKETS You can't beat America's Cup for high quality life jackets at a reasonable cost. We are impressed with these child's Type III jackets. They feature Ensolite flotation, crotch straps (except Youth), comfortable nylon fabric in high visibility orange and "childproof" Delrin snap closures. The side straps adjust for such a wide range of sizes that only two sizes fit all children (30-90 pounds). The zippered toddlers jacket (for children under 30 pounds) also has a padded foam collar for extra flotation and head protection with a convenient "grab" loop attached. The very little folks will find this more comfortable than the Kindergaard jacket, though the protection the Kindergaard offers is probably more secure.

AMERICA'S CUP YOUTH JACKET One size fits chest size 24"-28"; 50-90 pounds. Bright orange.

414.....\$19.00

AMERICA'S CUP CHILD'S JACKET One size fits chest size 20"-24"; 30-50 pounds. Bright orange.

415.....\$17.50

AMERICA'S CUP TODDLER'S JACKET One size fits 30 pounds and under. Zippered front closure with adjustable side strap. Bright orange.

416.....\$18.00

PEE WEE LIFE JACKET A small version of the standard Stearns jacket, plus the added features of body/leg straps. USCG approved Type III for recreational use.

417 — S (fits 20"-24" chest)

417 — M (fits 24"-27" chest)

417 — L (fits 27"-30" chest).....\$20.00



420



425



429



425

KINDERGAARD LIFE JACKET Designed for children who weigh less than 30 pounds, this 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.

418.....\$27.00

CHILD'S TYPE I It's really tough to get these jackets. They may not be as comfortable as the Type III jackets, but they have more flotation, and one size fits children under 90 pounds. Same design as the adult Type I Life Jacket #400.

419.....\$28.00



Waterproof Bags

WATER SPORTS INTERNATIONAL Waterproof bags have so many uses, and demand so much time, that we have turned the distribution and marketing functions of our bags over to Water Sports International. We still keep working on design improvements, and there are many innovations in the bags this year. Water Sports has broadened the line with new sizes and colors and added padded straps on all models. This effectively makes all their bags "Portage Packs". Now there is truly a bag for every purpose and not just for river runners. These bags are great for extra storage on the roof rack of a small car. We take them skiing. Some Alaskan customers use them in their planes, and lots of fisherman, sailors and motorcyclists find them just the ticket for stowing gear.

These bags are the finest PVC-coated Dacron, a fabric which is resistant to puncture, abrasion and weathering. Each strap is attached by means of a double-reinforced patch, and the hardware has a black anodized nickel-plated finish (a little more expensive than the cadmium-plated, but worth it). We honestly believe these bags to be superior to any other on the market. All WSI bags are guaranteed for one year against defects in material and workmanship for recreational use.

BILLS BAG 3.8 This year we improved the strap attachments, padded the back straps and added another color. For a watertight bag, fill it with all your gear, press the tabs together, roll down a minimum of three folds and cinch down the top and side straps. This bag is large enough to provide room for even the worst packer with his big Sears-Roebuck sleeping bag. Careful packers who don't carry a lot of extra junk can get two people's personal gear into this bag. The 2" padded straps make the long portages bearable and the short ones fun. The straps can also be used to secure the pack in your canoe, raft or even on your car's luggage rack. This bag has many uses, and customers keep suggesting new ones all the time. Material is forest green or deep blue, 18 oz. PVC-covered Dacron; dimensions are 13" x 16" x 32" high (measured packed full); capacity is about 3.8 cubic feet.

420 Forest Green.....\$42.00
421 Deep Blue.....\$42.00

BILLS BAG 2.2 Most of us can pack all our personal gear into a Bills 2.2 for even the most extended trip. It's a handier size than the 3.8 bag, but not as much bag for the money. To close the bag, press the tabs together, roll the top down for a minimum of three folds and then cinch the straps tight. 18 oz. PVC-covered Dacron, forest green or deep blue. Dimensions are 10" x 15" x 25" (measured packed full); capacity is about 2.2 cubic feet. (This bag was known as the Blue Bag last year.)

424 Forest Green.....\$39.00
425 Deep Blue.....\$39.00

BILLS BAG 1.2 Ever need a pack that's tougher and has more room than those summit packs? This pack can go anywhere, yet has padded straps and all the features of the bigger packs. Use for extra clothes, lunches, etc. This bag is waterproof and super tough. The bag measures 10" x 12" x 18" (packed full) and comes in forest green or deep blue 18 oz. PVC-covered Dacron.

428 Forest Green.....\$28.00
429 Deep Blue.....\$28.00

BAGS AND BOXES

NRS GEAR BAG The Gear Bag is 23" x 40". That's enough dry storage for an overnight trip, or — if you pack lightly — there is enough room for two days' gear. The bright blue, 18 oz. PVC-coated Dacron industrial material is many times stronger than the unsupported vinyl used in some other, less expensive bags. It features a patented slide closure and two heavy-duty corner grommets for convenient tying down. Lots of waterproof storage at an economical price.

440.....\$18.50

NRS DAY BAG The Day Bag is our smallest (14" x 23") bag. It's just right for keeping your lunch and camera dry. Two corner grommets make it easy to tie into your raft, canoe or kayak, and the slide closure allows you easy access. Same tough, bright blue 18 oz. PVC-coated Dacron as the Gear Bag.

441.....\$13.50



BAG D'S D ring patches made of 18 oz. PVC-Dacron in forest green or deep blue. Just the thing for adding on to the NRS Gear/Day Bags or Watersports Bags. 1" welded D ring on a 4" diameter reinforced patch. Use the #443 Vynabond for attaching these.

442.....\$2.00



VYNABOND This is the adhesive included in the Vinyl Repair Kit #708. It's good for repairs on vinyl boats (like the Tahitis) and attaching accessories on ABS canoes and waterproof bags. 2 fluid ounces/tube. (Flammable, no parcel post or air shipments, please.)

443.....\$2.00

PHOENIX #1 DRY BAG This is made of 20 mil vinyl with a fold-over lip that fastens into a water-tight clasp. Also has two heavy-duty grommets for tying it into a canoe, raft or kayak; no slide closure so it stuffs into a tight space okay. Dimensions are 13½" x 17".

444.....\$16.00

PHOENIX #2 DRY BAG Same design as the #1 bag — but larger. Excellent choice for day trips if a change of dry clothes is desired. Dimensions are 18" x 22½".

445.....\$20.00

VOYAGEUR DAY BAG This bag has a 1/8" inner foam padding to protect your valuables. The tab/ears are beyond the slide closure, so even if they're damaged the bag's still water-tight. A nice size for small items and lunches, dimensions are 12" x 14", light blue, 20 mil vinyl.

448.....\$15.00

VOYAGEUR CAMERA BAG Same design as the #448 bag, only inflatable and much larger. You can probably get a movie camera with film or lunch and a sweater in this one. The light blue vinyl bag has an inner foam padding (1/8" thick) to protect your camera and a valve so you can add a little air for further protection. The stem is just long enough so you can blow up the bag after it's in place behind a kayak seat. Large enough to be a practical day bag; dimensions are 17" x 19".

449.....\$20.50

VOYAGEUR SHUT-HER-DRY BAG This double walled bag inflates into quilted chambers to form a roomy compartment (12" x 9" x 3" deep) which can expand to accommodate larger cameras. The inflated walls stay that way even when you open the bag. It's more convenient to use than the other inflatable camera bag, but be cautious and protect camera and lenses from banging into each other inside the bag. The bag has four corner grommets so you can attach a carrying strap or tie it securely in your boat. The blue opaque 20 mil vinyl should also reduce or eliminate condensation from sunlight. Slide closure.

450.....\$24.00

AQUATERRA CAMERA BAG The Aquaterra bag is double-walled with a pattern of welds to keep the size down by "quilted" the double wall you blow up. This bag is well-designed with a double-flap top system of twist locks, grommets for tying it down, etc. Keep covered in direct sunlight to avoid condensation. Size: 16" x 15" long when inflated.

452.....\$24.00



SIMA SPORTS POUCH The pouch is a vinyl inflatable camera bag with a ziplock closure (also has a velcro-tab flap that protects the ziplock). An adjustable sling is attached to two grommets near the top of the bag and is ideal for carrying the pouch over your shoulder. This pouch is easy to open and large enough (12" x 14") to hold a SLR camera with a 135 mm lens. Bright yellow with black carrying strap. Provides waterproof protection for someone who carries their camera out a lot and wants to keep it handy, but the pouch may have a shorter life than the other bags.

454.....\$16.00

SUPER SPORTS POUCH Why not get a larger bag? It's a more practical size for people who need the extra room. Dimensions are: 20" x 20".

455.....\$23.00

MAP CASE This see-through 8 mil plastic pouch is great for maps and river guides, also can be used to store wallets, books, etc. Its ziplock closure makes it waterproof (and easy to open), while the corner grommet makes it easy to secure. Dimensions are: 6-3/4" x 10".

458.....\$2.00

VIM CASE Very Important Map Case — A good sized clear plastic case with fold-over, snap-down opening. Excellent for holding a map — and large enough to hold our catalog, too (8½" x 11"). Corner grommets let you tie it in, but I just slip it under something so I can pull it out anytime. (Waterproofness is questionable under severe conditions.)

459.....\$2.25

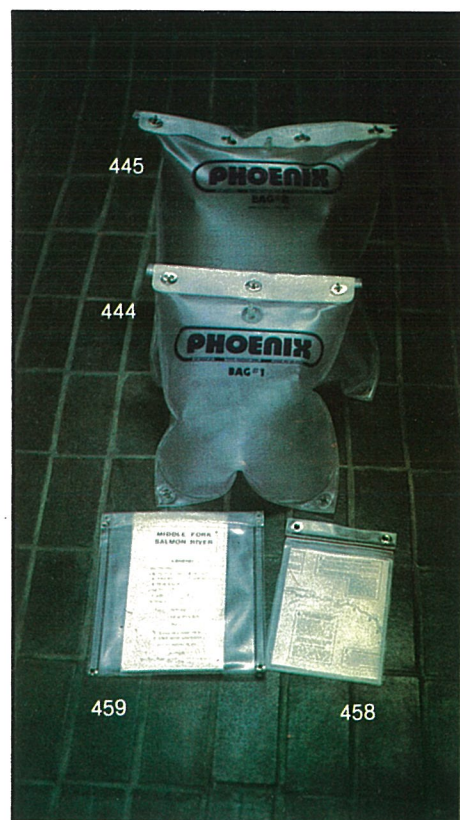
DITTY-WA-DITTY BAG Great idea! For all those little things that get lost in the bottom of your bag. Blue Puma added a



see-through front panel so you can tell at a glance what's inside. Drawstring/toggle closure, lightweight nylon fabric in assorted colors. Size: 5" x 5" x 7".

460.....\$3.75

PELICAN BOX Pelican boxes are manufactured by a supplier of diving equipment and are waterproof under conditions you wouldn't even dream about experiencing on a river. Use this airtight container to carry anything (from aspirin and film to personal valuables) that needs maximum protection. I used it for a first-aid kit last summer and just let it float free in the bottom of the boat. This heavy-duty box is





NEW PRODUCT

STUFF SACK. A stuff sack for tents, sleeping bags, clothing, etc., that will keep them dry and clean. A convenient roll-down/snap closure makes this stuff sack waterproof — unlike the usual nylon/drawstring closure bags. Made of 10 oz. PVC laminated nylon fabric in either deep blue or forest green. Weighs only 11.5 oz. A really useful item!

470 Blue.....\$9.95
471 Green.....\$9.95

PHONE ORDERS: 208/882-2383.

We have now expanded our hours to give you better service. We accept phone orders Monday - Friday 8:30 - 5:30 and Saturday 9:00 - 5:00 (Pacific Time) all year round. During the busy season (February - August) we extend our hours to 8:30 - 6:30 Monday - Friday. To insure accuracy, please fill out an order form and then read it to us. Mastercard, VISA and UPS COD orders accepted by phone. If ordering COD, you pay the COD fees in addition to our normal shipping and handling charges. COD fees start at \$1.40. (You must pay in cash only.)

SHIPPING POLICY

We are proud of our fast, dependable service. If your order cannot be filled and shipped within 3 working days, we will let you know what the problem is and when you can expect delivery. Whenever possible we will ship via UPS; however, if you use a post office box as a return address we are forced to use Parcel Post. (It is slower and more costly.)

UPS: For orders shipped via UPS to the lower 48 states, we charge 6% of the merchandise amount for shipping and handling with a minimum of \$1.50 and a maximum of \$10.00 in Idaho, \$15.00 in Washington, Oregon, Montana and Wyoming and a maximum of \$25.00 in all other states.

We can ship UPS Blue Label (three day air service) to most of the lower 48 states (Idaho, Washington, Oregon, Montana, Utah, Wyoming and Nevada excepted). If you wish your order sent UPS Blue Label, please call for an estimate of charges. PLEASE NOTE THAT WE CANNOT SHIP FLAMMABLES VIA UPS BLUE LABEL.

ALASKAN AND HAWAIIAN CUSTOMERS PLEASE NOTE:

Generally, we ship Parcel Post to these areas since UPS service is Blue Label only (therefore, more expensive) and limited in scope (currently, only Oahu and Anchorage areas are served). If you wish Blue Label service, please call for an estimate of charges. FLAMMABLE PRODUCTS CAN ONLY BE SHIPPED MOTOR FREIGHT TO ALASKA.

CANADIAN CUSTOMERS PLEASE

NOTE: Due to strict postal and customs regulations, please call us to be sure we can ship the products you want. Parcel Post and motor freight services are available, but UPS service is very limited. FLAMMABLE PRODUCTS CAN ONLY BE SHIPPED VIA MOTOR FREIGHT TO CANADA.

PARCEL POST: For orders shipped via parcel post, we charge 10% of the merchandise amount for shipping and handling with a minimum of \$2.50 and a maximum of \$25.00. PLEASE NOTE THAT

WE CANNOT SHIP FLAMMABLES PARCEL POST.

MOTOR FREIGHT: All orders that include rafts (except the Sprite II and the 6 and 8-man Udisco's), the Universal frame, long ash oars (8 ft. or greater) or 11 and 12 ft. Carlisle oars must be shipped motor freight (FOB Moscow, Idaho). You pay the delivering carrier for freight. For estimates on the charges, consult your local freight company or check with us. Orders over \$1,000 receive a \$25.00 freight allowance.

RUSH SERVICE: Put it off till the last minute? If you phone your order in by 10 a.m. Pacific time we will ship your UPS order the same day for a \$3.00 rush charge (does not include regular UPS or Blue Label charges).

GIFT CERTIFICATES: We now offer gift certificates. Just send us your check, along with the name and address of the recipient, and we will send them a Northwest River Supplies Gift Certificate in your name, good toward a purchase from our catalog.

TERMS: Payment with order: Money order, Check, VISA or Mastercard. Foreign customers please remit in U.S. dollars.

STORE HOURS: Come see us at our new store, 430 West Third, Moscow. Hours are 10:00 - 5:30 Monday - Friday and 9:00 - 5:00 Saturday.

P.O. Box 9186 Moscow, Idaho 83843

Phone orders accepted from 8:30am till 5:30pm Weekdays and 9:00am till 5:00pm on Saturdays (Pacific Time). During the busy season (February thru August) we will extend our hours to 6:30pm on Weekdays.

Name_____

Street _____

City _____ State _____ Zip _____

Phone Number()

Name _____

Street

City _____ State _____ Zip _____

Phone Number()

☐ Money Order ☐ Visa/BAC Signature_____

☐ Check ☐ Mastercharge Card Number _____ Expiration Date _____

[illegible]

Name _____

Street _____

City _____ State _____ Zip _____

Name _____

Street _____

City _____ State _____ Zip _____

	Merchandise	
Method of Shipment	UPS-6% of Mdse.	min. \$1.50
For Complete Shipping and Handling costs -please see reverse side of order blank.	PP-10% of Mdse.	min. \$1.50
	Motor Freight	collect
Q?	Id. Residents only 3% State tax	
	TOTAL	



NEW PRODUCT

STUFF SACK. A stuff sack for tents, sleeping bags, clothing, etc., that will keep them dry and clean. A convenient roll-down/snap closure makes this stuff sack waterproof — unlike the usual nylon/drawstring closure bags. Made of 10 oz. PVC laminated nylon fabric in either deep blue or forest green. Weighs only 11.5 oz. A really useful item!

470 Blue.....\$9.95
471 Green.....\$9.95

PHONE ORDERS: 208/882-2383.

We have now expanded our hours to give you better service. We accept phone orders Monday - Friday 8:30 - 5:30 and Saturday 9:00 - 5:00 (Pacific Time) all year round. During the busy season (February - August) we extend our hours to 8:30 - 6:30 Monday - Friday. To insure accuracy, please fill out an order form and then read it to us. Mastercard, VISA and UPS COD orders accepted by phone. If ordering COD, you pay the COD fees in addition to our normal shipping and handling charges. COD fees start at \$1.40. (You must pay in cash only.)

SHIPPING POLICY

We are proud of our fast, dependable service. If your order cannot be filled and shipped within 3 working days, we will let you know what the problem is and when you can expect delivery. Whenever possible we will ship via UPS; however, if you use a post office box as a return address we are forced to use Parcel Post. (It is slower and more costly.)

UPS: For orders shipped via UPS to the lower 48 states, we charge 6% of the merchandise amount for shipping and handling with a minimum of \$1.50 and a maximum of \$10.00 in Idaho, \$15.00 in Washington, Oregon, Montana and Wyoming and a maximum of \$25.00 in all other states.

We can ship UPS Blue Label (three day air service) to most of the lower 48 states (Idaho, Washington, Oregon, Montana, Utah, Wyoming and Nevada excepted). If you wish your order sent UPS Blue Label, please call for an estimate of charges. PLEASE NOTE THAT WE CANNOT SHIP FLAMMABLES VIA UPS BLUE LABEL.

ALASKAN AND HAWAIIAN CUSTOMERS PLEASE NOTE:

Generally, we ship Parcel Post to these areas since UPS service is Blue Label only (therefore, more expensive) and limited in scope (currently, only Oahu and Anchorage areas are served). If you wish Blue Label service, please call for an estimate of charges. FLAMMABLE PRODUCTS CAN ONLY BE SHIPPED MOTOR FREIGHT TO ALASKA.

CANADIAN CUSTOMERS PLEASE

NOTE: Due to strict postal and customs regulations, please call us to be sure we can ship the products you want. Parcel Post and motor freight services are available, but UPS service is very limited. FLAMMABLE PRODUCTS CAN ONLY BE SHIPPED VIA MOTOR FREIGHT TO CANADA.

PARCEL POST: For orders shipped via parcel post, we charge 10% of the merchandise amount for shipping and handling with a minimum of \$2.50 and a maximum of \$25.00. PLEASE NOTE THAT

WE CANNOT SHIP FLAMMABLES PARCEL POST.

MOTOR FREIGHT: All orders that include rafts (except the Sprite II and the 6 and 8-man Udisco's), the Universal frame, long ash oars (8 ft. or greater) or 11 and 12 ft. Carlisle oars must be shipped motor freight (FOB Moscow, Idaho). You pay the delivering carrier for freight. For estimates on the charges, consult your local freight company or check with us. Orders over \$1,000 receive a \$25.00 freight allowance.

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TERMS: Payment with order: Money order, Check, VISA or Mastercard. Foreign customers please remit in U.S. dollars.

STORE HOURS: Come see us at our new store, 430 West Third, Moscow. Hours are 10:00 - 5:30 Monday - Friday and 9:00 - 5:00 Saturday.

made of yellow ABS plastic, complete with replaceable neoprene gasket and mirror. One-year guarantee against defects in workmanship. Interior dimensions are: 3" x 4-3/4" x 7 1/2".

462.....\$11.00

PELICAN CASE This is the greatest in waterproof cases. At NRS the camera bugs stash their equipment inside, not only to protect it when going down the river but also when scrambling up cliffs to take that perfect shot. We've been told that Alaskan bush pilots carry their emergency gear in them. One look at the following specifications will show you just how good this case is: 1/8" thick injection molded Cylolac® ABS shell with integral carrying handle; watertight neoprene seal and sculptured foam inserts with a "Pelican Pluck & Fit" feature (includes 7 layers of blue foam with one convoluted layer and one layer with pre-cut foam grid). One year unconditional breakage/leakage guarantee. Silver-gray, outer dimensions: 18" x 12" x 6 1/2". We include the Pelican carrying strap and four split rings to be used to secure the case to your boat.

464.....\$80.00

CARRYING STRAP This 2" wide black strap is made with a slide adjustment and snap hooks on each end. Fits all the camera and dry bags with grommets. Worthwhile, and because it's detachable you can use it for securing the bag as well. 36" long.

465.....\$3.00

NRS PATCH KIT Our repair kit is small enough to be hard to find in a bag full of gear — but large enough to use when you really need it. 1/5 oz. adhesive and a 3" x 4" piece of clear vinyl, packaged in an envelope with directions. We include it with each of the WSI bags at no charge — but you may want a spare.

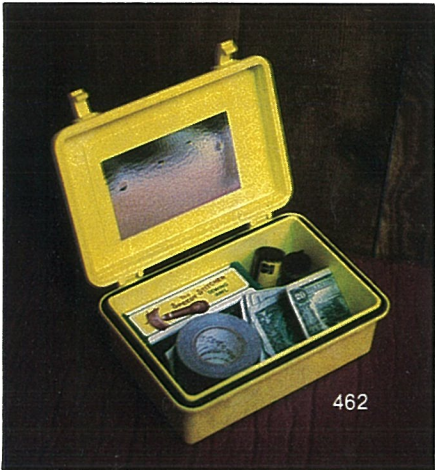
468.....\$.50 ea.

SPORTSMAN GOOP We like this stuff. It can be used to patch holey wetsuits, leaky rafts, worn-out tennis shoes or just about anything else you could dream of. Sportsman Goop is particularly good for covering wear spots in waterproof bags, tarps and water bags. A little dab on the worn spot will give you a season's worth of protection. Easy to pack 4 oz. tube. (Flammable, no parcel post or air shipments, please.)

469.....\$3.00

VINYL REPAIR KIT This is our super repair kit — intended for those of you who want lots of repair power. It contains 2 oz. of adhesive and 180 square inches of material. Bonds to all kinds of vinyl products (waterproof bags, tube tents, air mattresses) — a must item for long river trips. flammable; no parcel post or air shipments, please.)

708.....\$3.00

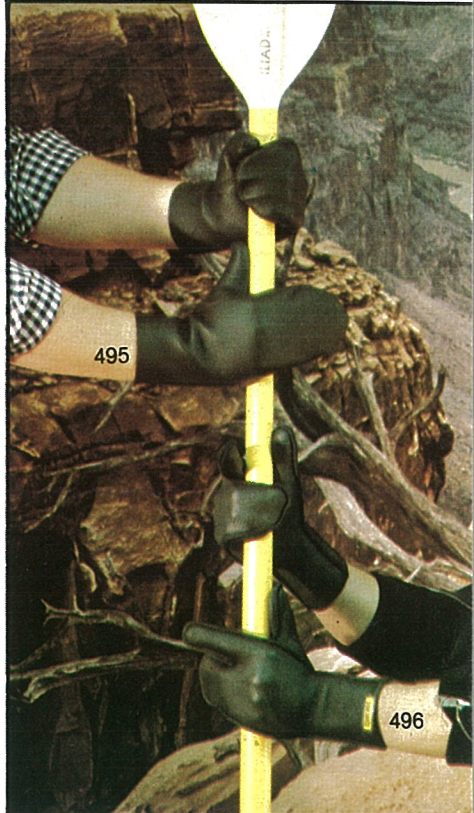


WHITEWATER! This one hour documentary on rafting the Middle Fork of the Salmon River has been widely shown and acclaimed. Produced by KUID, Moscow, Idaho, it's available to your local PBS station.

Whitewater! is also available for rent or purchase from Northwest River Supplies in Betamax or VHS format. Please specify rental (2 weeks) or sale.

Rental (2 weeks).....\$15.00
(+ \$25.00 deposit)
Sale.....\$40.00

RAFTING THE WHITEWATER, featuring Bill McGinnis, is a four part series of 30 minute programs on all aspects of whitewater rafting. It's from the Producers Group in cooperation with KWSU, Pullman, Washington and will be available to your local PBS station in Spring, 1981.



Wet Suit Sizing Chart

Men	Chest	Waist	Hips	Inseam	Height	Weight
Small	34-35	29-30	32-34	26-27	5' 6"-5' 8"	135-150
S-Medium	36-37	30-31	34-35	27-28	5' 7"-5' 10"	140-160
Medium	37-38	31-32	35-36	28-29	5' 8"-5' 11"	155-170
M-Large	38-39	33-34	36-37	29-30	5' 9"-6' 0"	160-175
Large	39-41	34-36	37-41	30-31	5' 11"-6' 0"	170-190
X-Large	42-44	35-37	42-44	31-32	6' 0"-6' 2"	190-200
Women	Chest	Waist	Hips	Inseam	Height	Weight
Small	31-33	24-26	33-36	22-24	5' 0"-5' 3"	95-110
Medium	33-36	26-28	35-38	25-27	5' 3"-5' 7"	110-135
Large	35-39	28-30	37-40	28-30	5' 7"-6' 0"	135-150

Custom suit information on request

These 1/8" thick suits are flexible and comfortable and offer sufficient warmth for almost all trips, including those in early spring. Heavier gauge suits (3/16" and 1/4") may be necessary for diving, because the neoprene compresses at depth, but we don't sell heavier suits because they give you an ape man feel. The farmer john pants and jacket combination provides two layers of neoprene over the vital body areas and should be sufficient protection for all normal situations. The jacket with high waist pants — also providing good protection — is much easier to fit and remove. Arm and leg zippers are standard on our suits because after a day of paddling it's really a drag to spend those miserable minutes trying to get out of a suit. All suits are of the finest domestic nylon-lined Rubatex neoprene, and they carry a one-year unconditional guarantee against defects in material and workmanship. Women's styles are cut in a very full "Dolly Parton" style, sizes: S, M, L, XL. We carry men's styles in sizes: S, SM, M, ML, L, XL. Wet suits are available in many other sizes and styles; if you need a custom suit or want a suit model we don't list, please contact us. Custom charges vary from \$7.50 to \$46.00 depending on your suit, size, and how fast you need it.

WILDERNESS JACKET This jacket is cut an extra 6" long — thus it provides more protection than the average jacket. Under-arm inserts allow good arm and upper body freedom for paddling. Full-length padded front zipper, low rounded neck, wrist zippers. Can be worn alone or as a complement to the farmer john, short john or high waist pants.

480 — Men's.....\$52.00

481 — Women's.....\$52.00

WILDERNESS FARMER JOHN A sleeveless suit cut like a farmer's bib overall. Low rounded neck, velcro shoulder entry with snap, knee pads and leg zippers. Excellent for all water sports because it keeps your legs and body warm, yet doesn't bind the upper body and arms (and you don't have to worry about smelling like a goat at the end of the day).

482 — Men's.....\$65.00

483 — Women's.....\$65.00

HIGH WAIST PANTS These pants are really easy to live with (and in) — easier to remove than farmer john's, and they give good protection as well. Women find them easier to fit than the farmer john. Pull-on style with leg zippers and knee pads.

484 — Men's.....\$58.00

485 — Women's.....\$58.00

WILDERNESS SHORT JOHN Like the farmer john, but with short legs — resembles a one-piece (and modest) bathing suit. This suit is often worn under other clothing by rafters and canoeists for



Emergency protection and is an excellent
 making suit for warmer weather.

88 — Men's.....\$41.00
 489 — Women's.....\$41.00

HARD SOLE BOOTS The soles are thicker
 (5/32") than they were in the past so there
 is less chance of rock bruises. The best
 way to keep your feet warm, protect your
 feet from stickers and sharp rocks and
 protect your boots from extra wear, is to
 wear these boots inside a pair of tennis
 shoes (make sure the shoes have good
 tread). Also, some people like to glue
 indoor-outdoor carpeting on the soles of
 their tennis shoes to give better traction on
 rocks. 3/16" neoprene nylon-1 uppers.
 Men's sizes: 4-13. (Women: order one
 size smaller than your normal women's
 size.)

492.....\$17.00 pr.

MOLDED SOLE BOOTS We believe these
 are a superior type of wet suit boot for
 those who wear booties alone. They have a
 molded non-skid rubber sole that provides
 great traction and good abrasion resis-
 tance. I've worn a pair for two years and
 found them to be very comfortable;
 however, like all neoprene products, they
 demand careful use and some patching.
 3/16" neoprene nylon-1 uppers bonded to
 a 3/8" rubber sole. Men's full sizes 6-12.
 (Women: order one size smaller than your
 normal women's size.)

493.....\$28.00 pr.

WET SUIT MITTS For real comfort you still
 can't beat these "old style" mitts. You lose
 some finesse, and you may get tired
 gripping the paddle, but the extra warmth
 is worth it. Sizes: S, M, L, XL.

495.....\$10.00 pr.

THREE-FINGER MITTS We've found this
 design gives a better grip than the mitts.
 The fingers seem rather narrow to us, but
 maybe we have fat fingers! The wrists are
 snug fitting and extra long. You still can't
 pick up a dime with the mitts on, but how
 many dimes do you need on a river? Very
 practical for both kayaking and canoeing.
 Sizes: S, M, L.

496.....\$11.00 pr.

WETSUIT MATERIAL This is the material
 our NRS spray skirts are made of — 3/32"
 nylon-backed neoprene. 44" wide. Sold by
 the running foot in 1 foot increments only.

498.....\$7.00 ft.

WETSUIT GLUE A black liquid neoprene
 suspended in some sort of solvent base.
 Used for fixing your spray skirts or wet
 suits, or it can even be used for repairing
 rafts. 4 oz. can with brush top. (Flamma-
 ble, no parcel post or air shipments,
 please.)

499.....\$2.50



Apparel

Through the years we, and our friends,
 have found some great river clothes. They
 all have special features that meet some
 need on the river. Besides, they are
 attractive and practical for many other
 uses. Each of these items is chosen for
 quality, workmanship and price.

GORETEX JACKET Goretex opens up
 design possibilities so you can have
 practical and stylish outdoor/rain gear.
 Pacific Ascente has designed a great
 jacket using the breathable, yet water-
 proof Goretex fabric's outstanding quali-
 ties. For foul weather it's nice to have a
 hood and waterproof protection, but for
 around town and social occasions (please,
 no remarks about Moscow's social occa-
 sions), you need a smartly-styled jacket.
 This jacket suits all occasions and weather

just fine. The hood has a drawstring and
 reinforced "bill" to keep the rain out of
 your eyes — and off your glasses. The
 full-length zipper with covering snaps can
 be easily adjusted for cooling. Additional
 adjustments can be made with the velcro
 cuff tabs and a drawstring with toggle
 to securely snug the bottom of the jacket.
 The cargo pockets are deep enough to
 carry more than a flashlight (if you have to)
 and have velcro tabs to keep the contents
 secure. I also like the two handwarmer
 pockets (underneath the cargo pockets)
 which you can easily slide your hands in
 and out of for warmth and protection on a
 rainy day. All in all, a superior versatile
 design that gives me a lot of pleasure. It
 should do the same for you. Royal Blue;
 included is a tube of Seam Stuff for
 waterproofing the seams — a little extra
 trouble, but it saves you a considerable
 amount of money.

501 (XS, S, M, L, XL).....\$85.00



SEA JACKET Whether you are into rafting, kayaking, canoeing, windsurfing or sailing, this jacket will be a very useful addition to your equipment. The jacket body is 1/8" neoprene with a full length front zipper and standup collar (not shown in photo). The sleeves are full length urethane-coated raglan style with neoprene cuffs. The Sea Jacket is the perfect compromise between a restrictive wet suit jacket and a sleeveless (cold) wet suit vest. It's particularly good for windsurfing and sailing, where freedom of movement and light-duty protection are desired. A durable, versatile and handsome jacket, well worth the money. Available in men's sizes: S, M, L, XL.

502.....\$47.50

WOOLRICH CHAMOIS SHIRTS Some things have an instinctive, cuddly appeal — teddy bears and chamois shirts. Woolrich knows about this, and their long sleeve shirt in a softly brushed 100% cotton flannel of the highest quality proves it. This shirt's thick enough to be mosquito proof. And like some of us it doesn't get older, just better (and softer with repeated washings). A practical, beautiful gift for yourself and a friend. Camel, Slate Blue, Rust.

503 Men's (S,M,L,XL) Camel.....\$19.50

504 Men's (S,M,L,XL) Slate Blue.....\$19.50

505 Men's (S,M,L,XL) Rust.....\$19.50

506 Women's (8,10,12,14) Camel.....\$19.50

507 Women's (8,10,12,14) Blue.....\$19.50

508 Women's (8,10,12,14) Rust.....\$19.50

SCRUB SUIT These aren't glamorous, but medical people were clever to discover that scrub suits make great river clothes. They're lightweight and cool, yet keep the sun off your back. So now you, too, can get them at a very reasonable price. In fact, if you get them any cheaper, better ask where they came from! Hospital green fabric is a polyester/cotton blend with a V-neck and drawstring waist. Sizes run large (small or medium will fit most women).

515 (S, M, L, XL).....\$17.50

NRS T-SHIRTS Our "parental guidance suggested" NRS T-shirts were quite popular with some, but not so popular with

others. Now you have a choice: NRS logo only (#520), or the NRS logo plus the inscription "For a good time call 882-2383" — our phone — (#521). Either way, you get a quality 50% cotton, 50% polyester shirt. With orders over \$100.00 the price drops to \$3.50 per shirt. Sizes run a bit small. Assorted colors.

520 NRS Logo (S,M,L,XL).....\$5.00

521 "Good Time" (S,M,L,XL).....\$5.00

OTHER T-SHIRTS We also carry a variety of T-shirts for you to show off your preferences.

BLUE HOLE Blue T-shirt with the Blue Hole logo on the left front and a whitewater canoeist on back.

524 (S, M, L, XL).....\$5.50

OLD TOWN This 50% cotton, 50% polyester shirt features a spindly old truck with — of course — an Old Town canoe on top. Assorted colors.

525 (S, M, L, XL).....\$5.75

PHOENIX Blue T-shirt of 50% cotton, 50% polyester with a bold kayaker on front.

526 (S, M, L, XL).....\$6.75

PERCEPTION A 100% cotton T-shirt with a colorful whitewater scene on front. Comes in assorted colors.

527 (S, M, L, XL).....\$6.75

NRS BELT BUCKLE A solid brass 3" diameter buckle with our NRS logo on a black background. Commercialism! Maybe, but we think it's an attractive buckle at a reasonable price.

529.....\$5.00



Kayaking is the true sport of river running; the others are really recreations. Is that true? It's not that you have to be a super athlete or anything — it's just that, to the initiated, skill levels are readily apparent and there is always another skill to be mastered. Maybe that's kayaking's problem — it looks harder than it is.

We think kayaking is good recreation, too — you don't have to be a technical climber to enjoy mountains nor run class V & VI rapids to enjoy kayaking. Cruising in a kayak is mostly ignored, yet perhaps the most enjoyable of all trips. Please note that we don't normally ship kayaks — so please contact us before you order.

WHITewater BOATS

Dick Held is always working on new ideas, and this year he has a super one. We have known Royalex would make a great kayak, but earlier efforts had a few problems like heavier weight and joints for putting the boats together. Dick seems to have solved them with these Royalex models. Kits may be available for the Royalex boats in 1981. Contact us for details if you're interested.

ROYALEX LOCHSA This low volume slalom boat is very fast and maneuverable, and now has extra strength from the Royalex hull. Length: 13'2", beam: 23-7/8", weight: 31 lbs.

ROYALEX SALMON This will be my personal choice for the '81 season. Length: 13'2", beam: 23-7/8", weight: 33 lbs.

PERCEPTION

Bill Masters at Perception always seems to have an eye out for improvements and innovations in his kayak and canoe line. His rotationally-molded plastic kayaks combine comfort with durability. The boats feature an internal frame and seat system which distributes stress evenly and provides inner strength to protect the boater in a "wrap around" situation.

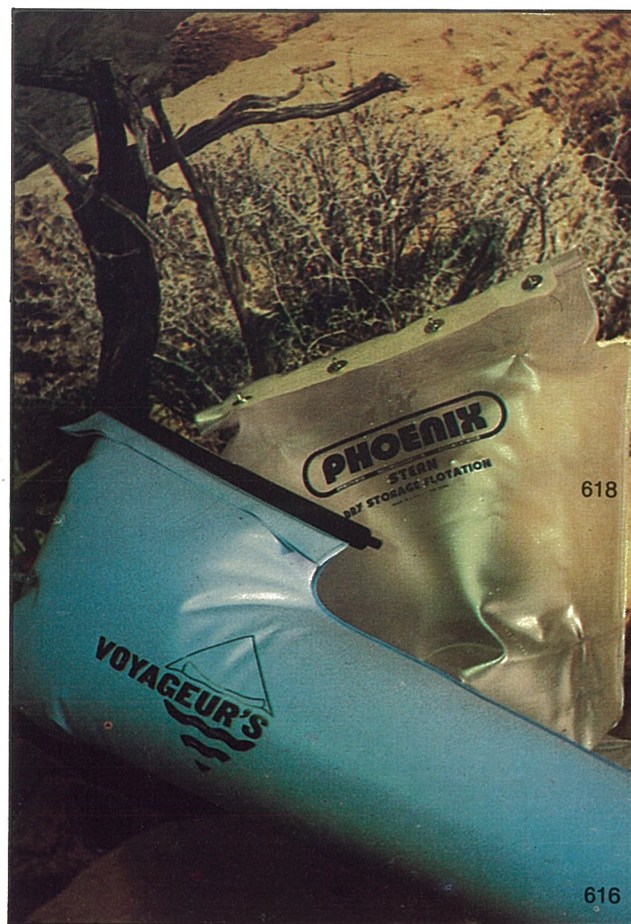
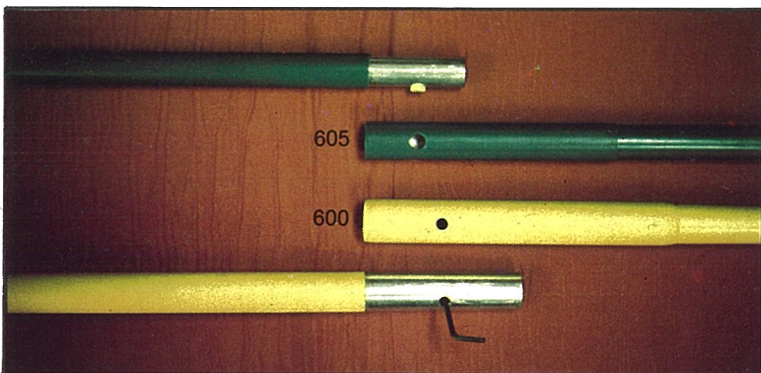
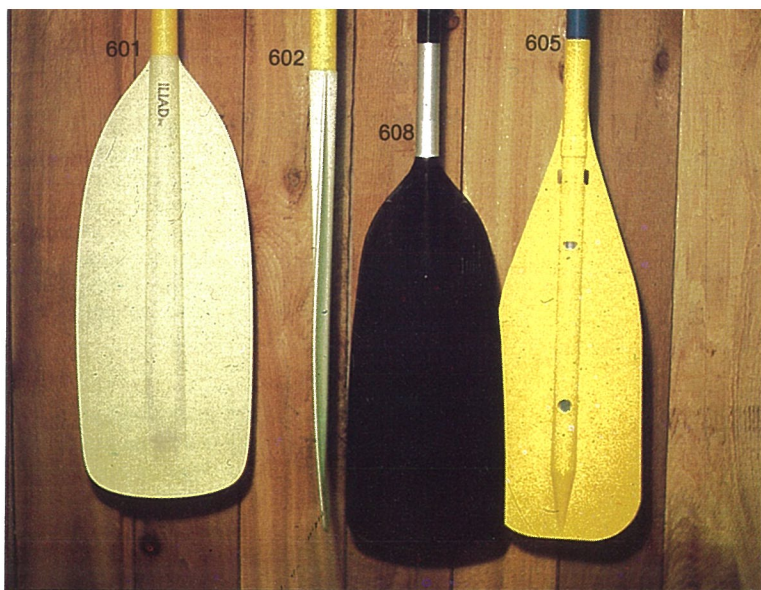
QUEST The design is a good looking medium volume slalom. Sleek and simple, it's excellent for the boater who wants to go from scratch to high performance with a single boat. Length: 13'2", beam: 24", weight: approx. 39 lbs.

MIRAGE This low volume model was the most popular boat in the 1980 season. The Mirage has brought the performance level of rotationally-molded boats up to that of fiberglass with much greater durability. The Mirage's design makes it an ultimate playboat — rocker design with kicked-up ends and a wide, slightly flat deck (great for enders!). Length: 13'1", width: 24", weight: 37 lbs.



503-508





PADDLES

ILIAD BREAKDOWN PADDLE The Iliad paddle is the best handling, most durable paddle we have found, and for the serious whitewater paddler this is the first choice. The paddle has a high strength aluminum shaft covered with non-slip vinyl. The blades are pressure-molded fiberglass and measure 8½" x 22". There is an innovative male/female socket with an allen hex head tightener (allen wrench provided). The paddle fits together so tightly you'll never know it's a two-piece shaft. Now you can easily pack your paddle inside your car or truck — less chance of getting ripped off and also easier to travel with. Weight: 3 lbs. 12 oz. in the 84" length.

600 (Lengths: 82", 84", 86").....\$90.00

ILIAD FLAT BLADE PADDLE This paddle has a slightly oval, high strength aircraft aluminum shaft covered with non-slip vinyl. The oval shape helps orient your control hand. The blades are pressure molded fiberglass and measure 8½" x 22". It is not uncommon to find Iliads 10 years old still in use on the rivers — these paddles live long lives! The 84" length seems to be the most popular, but length really is a matter of personal preference. Weight: 3 lbs. 2 oz.

601 (Lengths: 82", 84", 86").....\$82.00

ILIAD SPOON BLADE PADDLE Identical to the #601 paddle, but with a slight spoon blade (right-hand control). Some feel the

spoon blade is an advantage; others won't go near it. 84" weighs 3 lbs. 12 oz.

602 (Lengths: 82", 84", 86").....\$82.00

7 FT. CARLISLE BREAKDOWN PADDLE

These 7 ft. breakdown kayak paddles have 8" x 20" blades, smooth ABS plastic covered 1-1/8" aluminum shafts and secure slide-lock joints. The breakdown feature also allows you to carry it as a spare under your float bags — or with the use of #606 handles — have the rafters/canoists carry your spare paddle for you. Weight: 3¼ lbs., waterproof, so it floats.

605.....\$27.50

CARLISLE ADAPTER HANDLES These handles allow you to change a Carlisle breakdown paddle into two canoe/raft paddles — the best idea we've found for taking along the spare paddle. Sold only in pairs. 7 ft. kayak paddle becomes two 60" canoe paddles.

606.....\$9.50 pr.

83" MOHAWK BREAKDOWN PADDLE We believe Mohawk is the first American manufacturer to use a mechanical process (swaging) to reduce the diameter of one shaft so it sleeves into the other and produces a superior connector joint for breakdown paddles. The 8" blade is ABS plastic with a metal insert for added strength, and the 1-1/8" anodized aluminum shaft has a heat-shrink vinyl grip. Not available until March 15, 1981.

608.....\$24.50

KAYAK FLOTATION

KAYAK FLOAT BAGS Why risk it? These are a great help in keeping your kayak healthy. 20 mil vinyl, inflation tube and large deflation valve. Bow and stern bag.

610.....\$21.75 set

KAYAK SPLIT FLOAT BAGS Designed for boats with center pillars, these are quality 20 mil vinyl bags to keep your boat afloat. Set of 4 bags (2 bow and 2 stern).

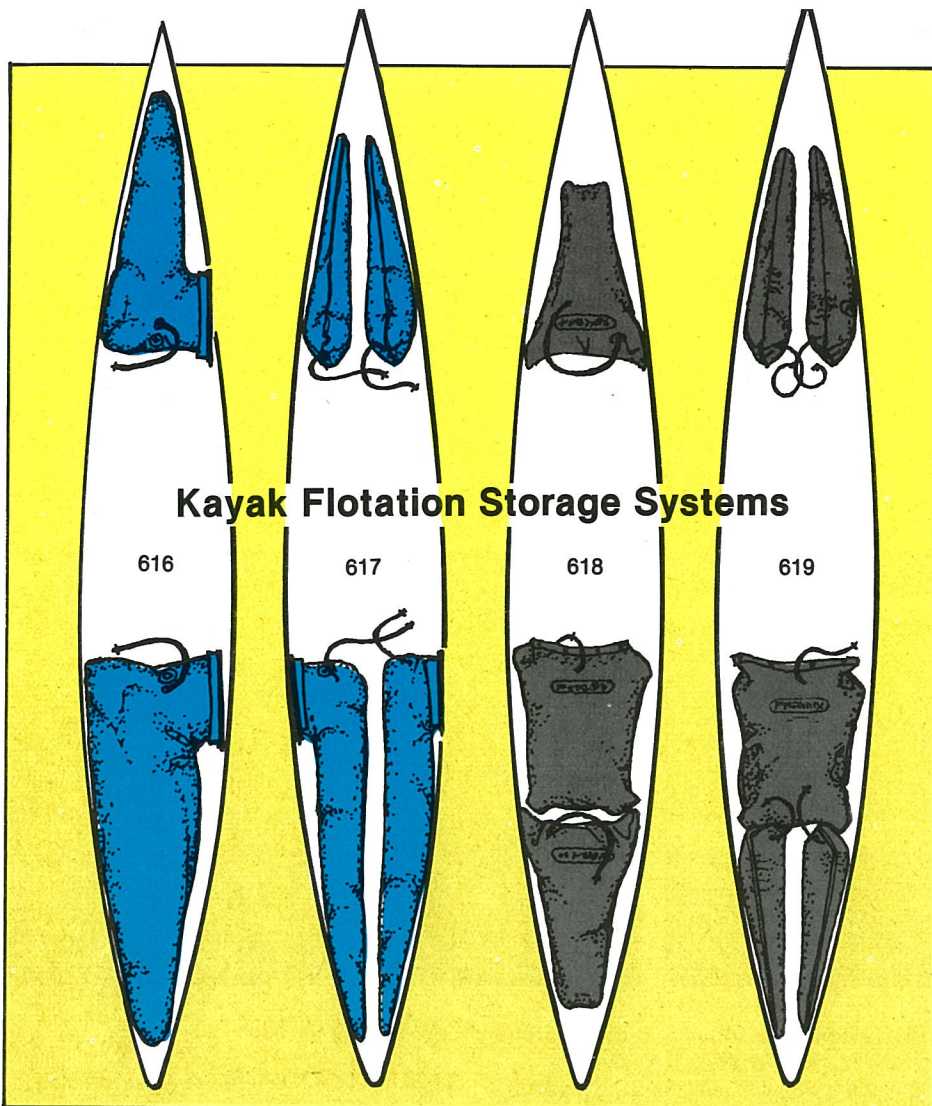
612.....\$29.75 set

VOYAGEUR ULTRALIGHT SPLIT BAGS

Voyageur took the latest fabric technology and designed unique float bags for the performance-minded, weight-conscious kayaker. To reduce kayak swing weight to minimum, you need light float bags. Voyageur used a 210 denier urethane-coated nylon to produce these extra-strong, extra-light split bags. The bags have an unconditional seam guarantee, and the complete set only weighs 29 oz. (Conventional 20 mil bags weigh 70 oz.) Cherish these bags (sand those fiberglass stickers down), and they'll outlast your kayak. Light yellow.

615.....\$69.95 set

VOYAGEUR STO-FLOATS The quality of these 20 mil vinyl bags has been very impressive. They have a patented closure that resists the pressure of big water on the deck. The side entry is easy to open, but somewhat difficult to get your gear in



Kayak Flotation Storage Systems

and out of. Set includes bow and stern bag, and repair kit.

616.....\$39.50 set

VOYAGEUR SPLIT STO-FLOATS Voyageur uses small standard split bags in front and two long split storage bags in the rear. If your stern compartment has a full pillar, this is the only storage bag set made to fit your boat. Blue vinyl 20 mil bags with Voyageur's patented closure. 4 bags/set.

617.....\$46.25 set

PHOENIX STO-FLOATS A set of 3 bags — a bow and stern float bag and one sto-float for gear — all made of 20 mil clear vinyl. The gear bag has the Phoenix roll and twist lock closure and is placed directly behind the kayak seat for easy access and good weight placement.

618.....\$46.50 set

PHOENIX SPLIT FLOATS Same idea as the #618 Sto-Floats, only this time the bow and stern bags are split. They won't work with the Perception boats or other kayaks with long back pillars. Set consists of five bags.

619.....\$57.50 set

NRS PATCH KIT A small repair kit that may come in handy sometime. Contains a 3" x 4" piece of clear vinyl and a small tube of adhesive that will bond to all the vinyl products we offer (float bags, camera bags, and even the inflatable canoe/kayaks).

620.....\$.50 ea.

SPRAY SKIRTS

NRS SPRAY SKIRT This is our high quality standard-length spray skirt. Don't avoid this one just because it's less expensive. 3/32" nylon/neoprene, sewn and glued seams, stretch-type drawcord fits any boat that measures 72" or less (measure under cockpit rim with a rope or cloth tape). Waist sizes; small fits up to 30", medium-31" to 35", large-36" and up.

624 (S, M, L).....\$25.75

WILDERNESS SPRAY SKIRT Rolled, sewn edges and meticulous workmanship make this a beautiful cover. Has a pad in the back and a wiffle ball up front for easy exit. Sizes: small fits up to 30", medium-31" to 35", large-36" and up. Fits cockpits up to 73".

626 (S, M, L).....\$27.50

AQUATERRA SPRAY SKIRT This spray skirt is made from rugged 1/8" nylon/neoprene with overlapped glued seams and a long waist tube. Because the neoprene is thicker for durability you have to cinch the cockpit bungee cord up pretty tight to get a secure fit, but the new thicker shock cord should help it to stay on better. Also has a reinforced grab loop and a foam pad built inside the back so you can roll and paddle in comfort. Sizes: small fits up to 30", medium fits 31" to 36", and large fits 37" and up. Fits boats with cockpits up to 73".

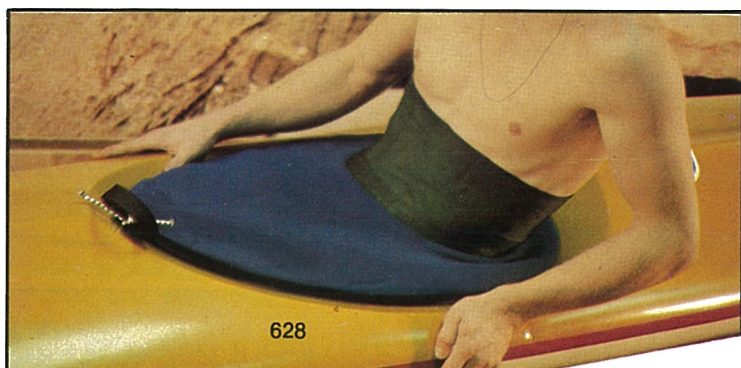
628 (S, M, L).....\$32.00

TOURING SPRAY SKIRT Fits the larger touring kayaks with cockpits measuring greater than 73". Waist sizes: small up to 30", medium 31" to 36", large 36" and up.

629 (S, M, L).....\$29.00



624



628



626



HELMETS

PRO-TEC HELMET This lightweight helmet uses a plastic shell and removable dual layer closed/open cell foam to insure comfort and protection. Drain and ear openings in the molded shell complete the basic design. Lightweight, adequate protection and outstanding comfort make this a fine helmet. Includes chin strap with snaps. Offered in yellow or red. Sizes: Small up to 6-3/4", Medium 6-7/8" to 7-1/8", Large 7-1/4" to 7-1/2", XLarge 7-5/8" and up.

630 Yellow (S,M,L,XL).....\$28.50
631 Red (S,M,L,XL).....\$28.50

COOPER "2000" HELMET This revolutionary (their words) adjustable helmet features a tough resilient Dupont 2907 linear polyethylene shell, an inner lining in a patented pin-cushion design and a second layer of high density Absorbex foam. The helmets are fully adjustable by loosening two screws on each side, fitting on your head and tightening the screws. This adjustment is essential if you sometimes wear a wetsuit hood for the cold weather. One size fits 6-5/8" to 7-3/4". Approved by the Canadian Standards Association and Swedish Ice Hockey Federation.

632 (Gold).....\$27.50
633 (Green).....\$27.50
634 (Blue).....\$27.50

COOPER "300" HELMET This helmet features an injection molded polycarbonate (Lexan) shell with twin rows of ventilation/drainage ports. Its rounded edges and flared contours deflect blows and protect the ears. The lightweight molded plastafom liner provides good shock absorption, and the snap-on web chin strap holds the helmet firmly yet comfortably in place. Approved by the Canadian Standards Association and Swedish Ice Hockey Federation. Sizes: X-Small (6-3/8" to 6-1/2"), Small (6-1/2" to

6-7/8"), Medium (7" to 7-3/8"), Large (7-1/2" to 7-3/4").

635 (XS, S, M, L).....\$16.50

PADDLING JACKETS

EXTRASPORT PADDLING JACKET This economical paddling jacket features a zipper and adjustable velcro neck closure. The 10" x 9" front pouch and forearms have zipper closures, also. The wrists and waist have elastic bindings. It's made of yellow lightweight urethane coated nylon fabric. Sizes: S (28-35), M (35-40), L (40-45) and XL (45-50).

636.....\$25.00

BLUE PUMA PADDLING JACKET When paddlers design a jacket, it's the little things that count — like zippered neoprene cuffs with a tab you can hold with your teeth to pull the zipper closed with one hand. The neoprene neck band has both a zipper and wide Velcro strip for comfort as well as a snug fit. There's a zippered front pouch and an elasticized drawstring in the hem. The fabric is navy Super K-Kote taffeta with red neoprene and red stitching. Sizes: Small (34-36), Medium (38-40), Large (42-44), XLarge (46+).

638 (S, M, L, XL).....\$45.00

GORETEX PADDLING JACKET Paddling jackets keep out water and protect against chill, but they can get pretty uncomfortable when the sun comes out. Goretex is a good solution to the ventilation problem. This jacket has the same thoughtful styling as the #638 jacket, but the fabric is taffeta/tricot Goretex laminate. Color: navy with red neoprene and stitching. Sizes: Small (34-36), Medium (38-40), Large (42-44), XLarge (46+).

639 (S, M, L, XL).....\$75.00

SEA JACKET Kayakers will find this jacket makes good sense for summer paddling because it gives the essential protection of a wetsuit with the freedom of a paddling jacket when worn alone or over a sweater. The jacket body is 1/8" neoprene with a full length front zipper and stand-up collar (not shown in photo). The sleeves are full length urethane-coated raglan style with neoprene cuffs. A durable, versatile and handsome jacket, well worth the money. Available in men's sizes: S, M, L, XL.

502.....\$47.50

OTHER ACCESSORIES

9" GLASS-IN FOOT BRACES For those of you who prefer to fiberglass-in your own foot braces. Better stock up, though, these are no longer manufactured and therefore limited to stock on hand.

640.....\$17.00 pr.

10" FOOT BRACES If you are making your own kayak, or have bought one without braces, these individually adjustable foot rests are just the ticket. They have neoprene-covered foot pads and a simple latch that allows adjustment easily. Drilled and tapped for screws, all it takes is two small holes, and these foot braces are in place. Screws and watertight washers included, 7" adjustment.

642.....\$17.50 pr.

ETHAFOAM BLOCKS Kayakers use ethafoam for seats and pillars, rafters for seats and floor protection, canoeists for extra flotation. Ethafoam is Dow Chemical's trade name for closed cell polyethylene foam, and we stock the most popular type-220 (2.2 pounds/cubic foot). A block measures 2" thick x 12" wide x 54" long.

646.....\$14.00/block

CROAKIES Most eyeglass holders are uncomfortable — these aren't! These are made of neoprene sponge (wet suit material), and I sometimes forget I'm wearing them. These do a nice job, and comfort ought to be worth this small price.
378.....\$3.00

SPRITE BOAT BAG Kayaking is one sport that requires a lot of gear that's bulky and somewhat of a hassle to deal with. It's handy to have a bag that will carry all the gear, yet let the equipment breathe. This bag is the answer! Simply lash it on your rack, alongside your boat, or put it right in your kayak. It's see through so you don't have to empty it to see if you remembered your booties! Made of tough, open weave PVC-coated industrial fabric with a single web handle, 3/16" rope and toggle drawstring. Dimensions are:
106.....\$15.00

Canoes & Accessories

For versatility on the water, few will argue against the benefits of canoe ownership. Family flatwater paddling, extended canoe voyaging and whitewater excitement are all possible with a well-designed and constructed canoe. Some at NRS like to take an afternoon off and head for the local lake for a relaxing dose of sunshine and trout fishing (using a company canoe, of course). NRS carries a complete line of quality canoes by Blue Hole and Old Town. Ask for free brochures if you're interested. Because of freight problems, canoes must be picked up in Moscow.

OLD TOWN: Old Town is the long time builder of quality canoes. Their newer ABS boats are made with the same care as their traditional wood canoes.

OLTONAR TRIPPER: The Tripper is an excellent all-around boat for those who may carry camping gear and still expect some whitewater use. Its rugged Oltonar hull gives it durability and a smooth, quiet way in the water. Outfitted with strong vinyl gunwales, ash thwarts and ABS seats. Dimensions are: 17'2" long with a 37" beam, 15" deep, weighs 77 pounds.

BLUE HOLE: Blue Hole canoes have gained a well-deserved reputation for innovative design and excellent workmanship in just a few short years. Their boats are built to survive the toughest conditions.

MGA-17: Mike Galt designed this boat with river cruising mind. We don't know much about canoe design, but we do know how superbly this boat handles and how easy it is to paddle. If flatwater paddling and moderate whitewater are what you have in mind, this is the boat for you! Made of Royalex/ABS and fitted with high-strength aluminum gunwales and thwarts and unique outwale vinyl inserts. There's an



adjustable bow seat that keeps your canoe in trim no matter what the load. Dimensions are: 17'6" long with a 36" beam (at the gunwale), 13" deep, weighs 85 pounds.

OCA-16: This is the boat you see taking impossible drops with solo paddlers. It has a Royalex/ABS hull with 6063 low-temper aluminum gunwales for extra strength, that bend (instead of break) under stress. A highly engineered boat for the whitewater enthusiast. 15'9" long, 34" beam, weighs 70 lbs.

CANOE PADDLES

Canoe paddles have progressed a long way in just the last few years. The new aluminum and plastic paddles are stronger and less expensive than quality wood paddles. For whitewater rafting fairly long paddles may still be necessary, but for canoeing the wider, shorter blades allow you to use a shorter paddle. Don't get sucked in by all that up to your chin, nose and forehead stuff. Choose a shorter, more comfortable length.

STANDARD MOHAWK PADDLE These paddles are an outstanding buy. Despite their low price we prefer them to some competitive models costing twice as much. The 1-1/8" diameter shaft is anodized, has a heat-shrink vinyl shaft grip and a molded plastic T-grip that's comfortable and gives good control. The tough 8" wide ABS plastic blade has a metal insert and can take a 45° bend in the lower blade without suffering ill effects. The blade and T-grip are pressure-fitted onto the shaft, and the result is a waterproof (it floats) paddle. We offer four lengths: 54", 57", 60" and 63". 60" length weighs 2 lbs., 1 oz.

650 (54", 57", 60" or 63").....\$12.00 ea.
SPECIAL: 3 or more paddles. \$11.00 ea.

MAGNUM MOHAWK PADDLE This paddle is identical to the #650 paddle 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 paddle and see results. Offered in 54", 57", 60" and 63" lengths. 60" length weighs 2 lbs., 2 oz.

651 (54", 57", 60" or 63").....\$16.00 ea.

SPECIAL: 3 or more paddles. \$15.00 ea.

SAWYER CANOE PADDLE If you love the feel, flex and look of a fine wood paddle, Sawyer has the paddle for you. I don't know what the differences are, but wood paddles just feel better than the aluminum and plastic. You can use these paddles for a full day without feeling the strain. The SCT-8 has a modified T-grip, a laminated 8 piece reinforced blade and a quality shaft coated in a durable marine finish. Weighs less than 2 lbs. Sizes: 54" and 60".

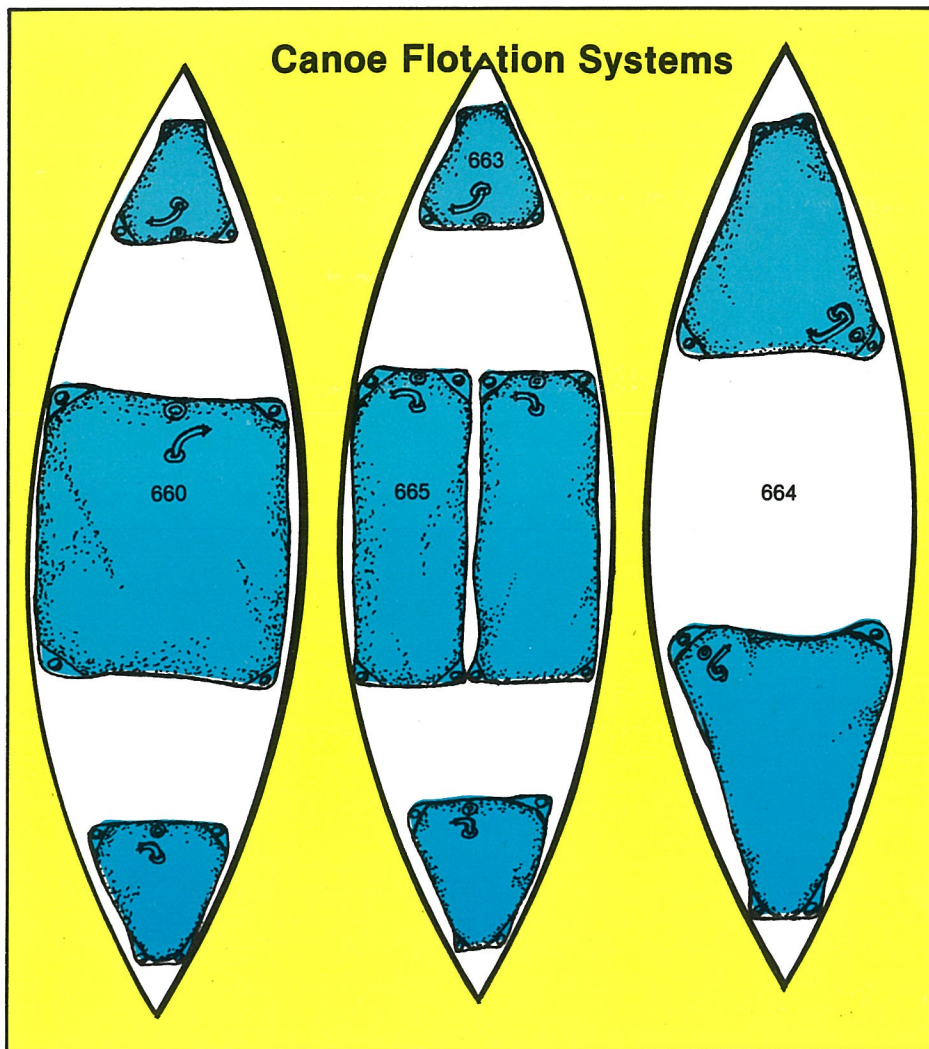
655 (Lengths: 54" or 60").....\$23.00 ea.

SAWYER WHITEWATER PADDLE This is Sawyer's top of the line wooden paddle designed for the serious whitewater open canoeist or C-1 paddler. It features a comfortable modified T-grip handle, a laminated 5 piece oval shaft and a 9" x 22" fiberglass-reinforced blade that is two inches longer and an inch wider than the standard Sawyer, thus providing more gusto per stroke. The 12-piece laminated blade is 1/4" thick with a special fiberglass tip reinforcement that virtually eliminates splintering. Approximate weight, 2 lbs., 4 oz. Sizes: 54" and 60".

656 (Lengths: 54" or 60").....\$39.00 ea.

SAWYER BENT SHAFT PADDLE We've used these for flatwater paddling, and they are super. The power they add to your stroke is amazing, and like all Sawyer paddles the look and feel of the wood is

Canoe Flotation Systems



wonderful. Laminated 5 piece oval shaft, modified T-grip handle, laminated 14 piece reinforced blade measuring 9" x 21". 52" length weighs approximately 1½ lbs. Sizes: 52" and 54".

657 (Lengths: 52" or 54").....\$35.00.

9 FT. MOHAWK BREAKDOWN PADDLE

The Mohawk Breakdown Paddle in a 9 ft. length that makes a great double-bladed canoe paddle. Double-bladed paddles are far superior to single-bladed paddles for solo paddling and improve tandem paddling as well. The big blades (8" wide) and length (108") of this paddle allow you to set up an easy rhythm and really move along in the water. The technique is really quite simple, and the advantages are obvious the first time you try it. Black ABS blades and a 1-1/8" anodized aluminum shaft with heat-shrink vinyl grips. The swaged center joint has a spring-loaded ball to lock the shaft into place. Weight is 3½ lbs. Not available until March 15.

659.....\$26.00

CANOE ACCESSORIES

AQUATERRA CANOE FLOATS This is a big 3' x 4' center bag for use when paddling open canoes in whitewater (it displaces a lot of water). 20 mil vinyl construction with four grommet tie-downs, inflation hose

and quick deflation valve.

660.....\$22.50

VOYAGEUR CANOE FLOATS Voyageur has come up with an ingenious new system of open canoe flotation: three different shapes and sizes of vinyl bags that — combined in various ways — allow complete flotation for virtually every canoe in use today. The illustrations below suggest a few possible combinations of these versatile bags. Each bag is made of high quality 20 mil blue vinyl and is equipped with inflation hose, rapid deflation valve and tie-down grommets.

VOYAGEUR END BAG FLOATS These are small, tapered vinyl bags — very useful for flotation in the bow and stern ends of your boat. They fit most ABS and fiberglass canoes regardless of length (but don't fit canoes with built-in flotation chambers, like aluminum boats). Dimensions are: 14½" (widening to 24") x 32" long. Set includes two bags.

663.....\$25.00 set

VOYAGEUR SOLO CANOE FLOATS One of these large, tapered bags will fill the bow section of most 16' and 17' canoes completely. With another bag placed in the stern you have complete flotation for solo paddling. Dimensions are: 15" (widening

to 36") x 60" long. Set includes two bags.
664.....\$45.25 set

VOYAGEUR MAXI SPLITS A pair of large, rectangular bags that provide center flotation. These are the only floats that will work on canoes with center upright bracing (like the Colemans and Jensens). Dimensions are: 22" wide x 68" long. Set includes two bags.

665.....\$37.00 set

C-1 FLOATS 20 mil vinyl bags to keep your decked boat healthy if you should decide to leave it suddenly. Set consists of two bags.

668.....\$24.00 set

C-1 SPLITS Same idea as the #668 C-1 Floats, only for those of you who use center pillars or braces. Set consists of four bags.

669.....\$32.00 set

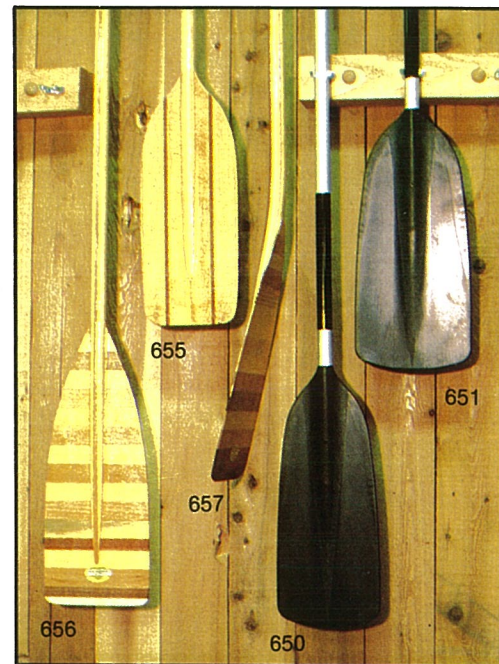
MISCELLANEOUS

C-1 SPRAY SKIRT A 1/8" nylon/neoprene spray skirt to accommodate the kneeling C-1 or C-2 paddler. Fits the most common decked canoes. Made by Aquaterra with waist sizes: Small (fits up to 30" waist), Medium (fits 31" to 36") and Large (fits 37" and up).

670 (S,M,L).....\$31.50

VYNABOND This is the adhesive included in the Vinyl Repair Kit #708. It's good for repairs on vinyl boats (like the Tahitis) and attaching accessories on ABS canoes and waterproof bags. 2 fluid ounces/tube. (Flammable, no parcel post or air shipments, please.)

443.....\$2.00

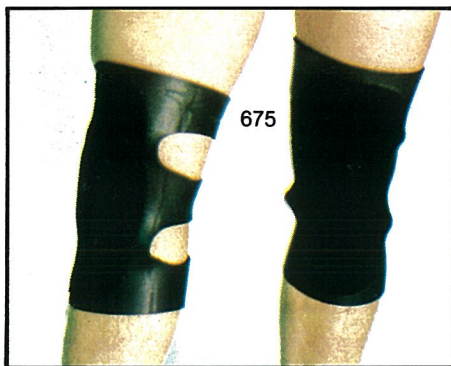


NEOPRENE KNEE PADS Some of our employees have tried these for canoeing and rate them as very comfortable. They provide good padding for your knees without cutting into the backs of your legs. 1/8" nylon/neoprene with a sewn nylon patch.

675.....\$13.00 pr.

VINYL D-RINGS A 1" welded D ring on a 4" diameter reinforced black vinyl patch. Fabric is 22 oz. PVC/Dacron. Great for tie-downs on ABS canoes. Use #443 Vynabond for attaching these.

677.....\$2.50



Inflatables

Inflatable canoes/kayaks we can really recommend. They're open like a canoe but should be paddled with a double bladed paddle like a kayak. They also handle more like a kayak, so let's just call them Hot Dogs! Hot Dogs are more fun than any other boat for playing on rivers without needing the skill level demanded for a kayak. You can fit all your gear in a small car and just have a ball with these! We really like the design; the ribbed inflatable floor seems to be the key to their success. Sea Eagle Explorers have polyester (Dacron) supported double layer PVC material, which makes them far superior to any unsupported boat. The Austrian-made Semperit "Dolphin II" has a sporty cruising/whitewater kayak design with Hypalon-rubber-and-polyester cord construction. This is the only inflatable we know of with Hypalon coating — durable, long lasting. The Sevylor models we carry are made from specially formulated unsupported PVC material, which holds up pretty well, and the limited (no rental or professional use) 12-month warranty protects you against seam problems. Beware of much cheaper boats, they are usually poor quality and don't last. All the Sevylor

models have built-in inflation gauges so you won't over-inflate them. If the gauge gets old and stops working reliably, use your lung power for final inflation — that's just about the right amount of air. We recommend the Sevylor pump or our NRS pump for inflation.

K-69 TAHITI This size is excellent for one person or one person and gear. The best whitewater paddling technique is to sit far forward and put your gear (if any) behind you. Specifications are: 9'6" length, 2'8" width, 9½" diameter tubes, 4" bow and stern rise, 3 air chambers with air gauges, one inflatable/adjustable seat and weighs 19 lbs. Includes owner's manual and repair kit.

701.....\$130.00

K-79 TAHITI This larger version Tahiti has been our most popular size. What you get for the extra money is a slightly longer boat that is large enough for two people. Specifications are: 10'8" length, 2'8" width, 9½" diameter tubes, 4" bow and stern rise, 3 air chambers with air gauges, 2 inflatable/adjustable seats and weighs 21 lbs. Includes owner's manual and repair kit.

702.....\$145.00



SEA EAGLE 330HD This Sea Eagle is constructed of unsupported 30 gauge vinyl which makes it a good choice if your inflatable is going to get a lot of river use. The heavier gauge vinyl makes the boat less prone to puncture and, in general, it's a heavier-duty boat than the Tahiti. Specifications are: 11' 2" long, 2' 9" wide, 8½" diameter tubes, three main air chambers, one built-in inflatable seat and one adjustable inflatable seat. Weighs approximately 29 lbs., complete with carrying bag, repair kit, pressure indicator and instruction manual. Gray with blue seats.

704.....\$195.00

SEA EAGLE 340 EXPLORER Relatively high pressure is necessary to get the best handling characteristics from an inflatable, and the Sea Eagle Explorer can handle these pressures routinely. The Explorer also has a removable inner inflatable floor that rests on a heavy (34 gauge) outer floor. This double floor protection and the unique double layer PVC/polyester reinforced material makes a superstrong boat that is well worth the admittedly high price. Includes adjustable front seat, built-in back seat, drain valve, carry bag, repair kit and instruction manual. Dimensions: 11' long by 2'9" wide, 8" diameter tubes, weighs 32 lbs.

705.....\$375.00

SEMPERIT "DOLPHIN II" If you're looking for something between a lightweight PVC kayak and a hardshell kayak, the "Dolphin II" is your missing link. The material is Hypalon-rubber and polyester cord construction. The inflatable ribbed floor offers cushioning and improved tracking. The wood-reinforced bow provides for a smoother cut through the water. Covered front and rear decks are handy storage spaces — or, if you're not going solo, you can fold the rear deck down into a second seat. There just isn't another boat today that combines durability and performance with the compact size of the Austrian-made "Dolphin II" — it packs into a 26" x 22" roll and weighs just 36 lbs. If you want to spend a few days out in the wilds of Canada or Alaska without hauling your canoe or kayak across the country — try the "Dolphin II". It can go anywhere and is ideal for fly-ins. Inflated dimensions are 12' long by 2'2" wide. There are three large air chambers and 7 smaller ones in this unsinkable design. A good replacement for the Klepper Aries I at about 1/3 the cost.

706.....\$485.00

VINYL REPAIR KIT We make our own repair kits to insure quality repair materials for you at a reasonable price. This kit contains 2 oz. of adhesive (tube) and 180 sq. inches of material that can be used to patch Tahitis, waterproof bags, tube tents, air mattresses, or just about any type of vinyl product. (Flammable, no parcel pos or air shipments, please.)

708.....\$3.00

SEA EAGLE EXPLORER REPAIR KIT This kit contains a 2 oz. tube of adhesive and 144 sq. inches of Sea Eagle material. (Flammable, no parcel post or air shipments, please.)

709.....\$4.00

SEVYLOR FOOT PUMP We thought Sevylor would import a better pump, but they haven't yet! So, in our opinion, this is still a low quality, crummy pump. However, it's cheap and the best of a bad lot at this price. Fits inflatable canoes/kayaks.

710.....\$15.00

NRS FOOT PUMP We import these pumps ourselves to assure the quality is maintained. Heavy duty steel hinge, 8" x 12" solid molded rubber top and bottom (molded around steel plate for strength). This pump also includes the #208 rubber valve adapter that fits all the rafts we offer.

206.....\$37.50

8 FT. MOHAWK BREAKDOWN PADDLE

The same paddle as the #608, but in the 8' length that's best for inflatables. This paddle has flat, black ABS blades (8" x 20"), with a metal insert for strength and a 1-1/8" anodized aluminum shaft with heat-shrink vinyl grips. The swaged center joint is secured by a spring-loaded button. Weight: 2 lbs. 14 oz. Not available until March 15.

715.....\$26.00



8 FT. CARLISLE BREAKDOWN PADDLE

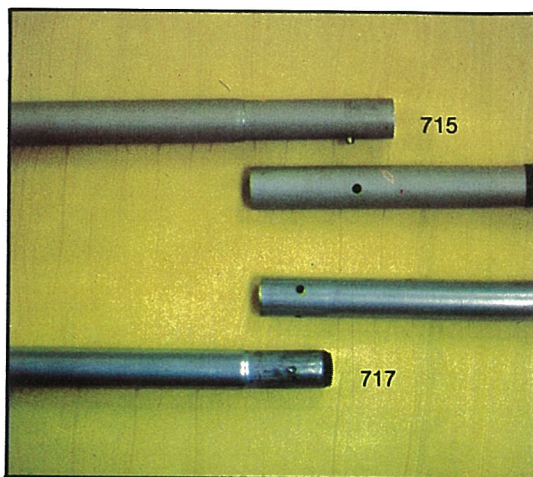
The toughest paddle in the group, it's also the heaviest. Excellent center joint. If durability and ability to take hard knocks are primary, go with this one. 8' long with 7-3/4" x 20" ABS blades, weighs 4 lbs. Can be used with #606 adapter handles to make a pair of 66" paddles.

716.....\$28.00

E-25 KLEPPER BREAKDOWN PADDLE

This is the best two-piece, 8' paddle we've seen. It has yellow injection-molded structural foam blades with a slight spoon shape, and a slight center rib to improve strength and reduce cavitation. The 1-1/8" aluminum shaft has a swaged center joint with a spring-loaded ball that locks it in place. Also features a vinyl shaft covering for grip and warmth. This is a good paddle for those with Fol-Boats or Kleppers. Nice attention to design and detail. 7'10" long with 8½" x 20" blades. Weighs 3 lbs. 7 oz.

717.....\$70.00



ROUND BOATS

Psst! Want to win a raft race? Then try a Sevylor Caravelle. They make good smaller river boats, but differ from conventional river rafts in several ways. They have inflated floors with a smooth, stressed bottom, so they are much faster to paddle. The floor also gives internal stability without the use of cross thwarts. An additional feature is the dual inner/outer safety chamber construction. Caravelles are ideal light duty, multi-purpose boats for lakes and other flatwater paddling, as

well as for river-running. And because they are compact and lightweight, round boats are just right for today's smaller cars.

CARAVELLE K-86 A small four-person paddleboat, this Caravelle nevertheless is great fun for almost any river. We haven't floated the Colorado in it, but I have seen it used on the Middle Fork of the Salmon. 3 separate air chambers with 2 Boston valves and one push-in valve. 4 oarlocks (not recommended for river use), life line, bow handle, owner's manual, repair kit, inflatable seat and built-in pressure gauge. The

boat is 9' long, 5' wide and weighs 26 lbs.
720.....\$175.00

CARAVELLE K-116 This boat is large enough to carry 4 persons and some gear. It's also excellent for fishing and other flat water uses. It has 3 major air chambers with 2 Boston valves and a push-in valve. Comes with 4 oarlocks (not recommended for river use), life line, bow handle, repair kit, owner's manual and pressure gauge. 11' x 5' and weighs 39 lbs.

722.....\$230.00



706

Books

WHITEWATER RAFTING This is the best book we have ever seen on river rafting. It has more worthwhile information than any other book and includes some really good tips on rowing a raft. For the novice, this book is indispensable. Bill McGinnis has good sections on equipment, reading and running whitewater, water emergencies, etc. The only "picky" criticism we have is that McGinnis doesn't think much of using small and light-duty boats for river running. But then again, his information is for real heavy-duty trips; aside from this, we have to say this is the best book ever on the subject. It should clearly be a rafter's first purchase.

950.....\$5.95

RIVER RAFTING Cecil Kuhne has written a good, fairly simple book on rafting. Contains lots of information for the beginner offered in a simple step-by-step approach; not as comprehensive as White-water Rafting.

951.....\$4.95

ADVANCED RIVER RAFTING Cecil Kuhne has written a book for the more experienced or serious beginning rafter. He includes much of the information in *RIVER RAFTING*, but deals with it more extensively. Features chapters on river cookery, photography and also includes a detailed section on whitewater management for those rafters (hopefully all of us, and then some) concerned about river recreation and its future.

952.....\$4.95

GUIDE TO INFLATABLE CANOES AND KAYAKS River running is in for some changes. Inflatables are perfect for shorter trips, smaller cars, public transportation, etc., and they're fun. They are the most light-hearted, enjoyable boats around.

William Sanders writes a wonderfully entertaining book, well done and appropriate to become the Bible of the sport. We have slighted inflatables in the past — don't you make the same mistake. Get this book, and get ready for a summer of fun at a relatively modest price. We recommend inflatables, and this book is clearly the place to start.

954.....\$5.95

ALL PURPOSE GUIDE TO PADDLING This book has 15 chapters and 15 authors; each chapter is written by an expert in a different area of river use. Covers everything from kayak surfing to river conservation and should be very useful to both the expert and beginner boatman. We learned something new from every chapter — well-written, edited by Dean Norman.

955.....\$5.95

KAYAKING Subtitled "The Whitewater Sport for Everybody", this book provides necessary information to help someone get started in kayaking and continue to reasonable levels of proficiency. The book is really excellent, and though we were afraid Jay Evans (former Olympic coach) would write mostly on racing, this isn't the case at all; the book is well balanced.

956.....\$4.95

WILDWATER Beautiful. How exciting to find an author who seems like a close friend — introducing you to a sport, enticing you with his love of rivers and whitewater, then leading you step-by-step up to intermediate skill and beyond. Perhaps my Western preferences show, but this book by Lito Tejada-Flores is my first choice for someone interested in whitewater — particularly kayaking, but also rafting. It's subtitled "The Sierra Club Guide to Kayaking and Whitewater Boating".

957.....\$6.95

AMC WHITEWATER HANDBOOK FOR CANOES AND KAYAKS Valuable information for all skill levels, but mostly for beginners.

958.....\$2.95

WHITEWATER RACING A good place to start if you're thinking of getting into competitive boating. And don't stay away from this book just because you're not — there's a lot of valuable information for the recreational boater as well. Chapters on slalom technique and racing, wildwater technique, physical and mental conditioning and equipment. Written by Eric Evans & John Burton, two of America's best-known whitewater racers.

959.....\$6.95

YOU, TOO, CAN CANOE I'm not sure I like the title, but the book is superb. It is a complete book on river canoeing, and

unlike many of the "complete" books, this book offers excellent information on virtually every topic concerning river running. John Foshee has obviously paddled and organized many trips, and he has brought it all together in a virtual encyclopedia of useful information. Don't be misled; this is an interesting, simple to read and understand book.

962.....\$9.95

WILDERNESS CANOEING AND CAMPING Another canoeing book? We think Cliff Jacobson's book is one of the very best we've seen. It's filled with experienced advice on what to take, and what to leave at home, when you go canoe camping. The illustrations and photos are especially clear and helpful. There's even a section that includes step-by-step instructions on making your own equipment (like tump-lines and canoe spray covers).

963.....\$6.95

COMPLETE WILDERNESS PADDLER Written by James Davidson and John Ruggie, this book combines a narrative account of an actual trip with step-by-step information and instruction. We suggest this book if you are into canoeing and want to think about longer trips. It's also more fun to read than most of the other books.

964.....\$10.95

BOATBUILDER'S MANUAL This manual covers all the steps and procedures for fiberglass whitewater canoe and kayak building. Read and study this book before you build your own fiberglass boat.

965.....\$6.00

STRIPPERS GUIDE TO CANOE BUILDING Written by David Hazen, this book reflects the personal experience of a master in the art of building cedar strip boats. I don't know how many of you have ever seen these creations, but if you have, perhaps you felt the momentary longing to build such a thing of beauty. The author entices you into this creative experience and then provides the notes, directions, and plans for the project.

967.....\$8.95

THE SURVIVAL OF THE BARK CANOE John McPhee could write about anything and make it interesting (not that this isn't). Luckily for us he has written about a trip with Henri Vaillancourt and about Henri's

dedication to building bark canoes. Also includes a portfolio of material by Edwin T. Adney (1868-1950), the man who recorded the art of the bark canoe before it was lost and made Henri's pursuit of perfection possible.

968.....\$4.95

TOURING GUIDES

Without exception these books are labors of love — done to share the joys of touring in an area known well by the authors and their friends. Many hundreds of hours have gone into preparing these works.

THE BIG DROPS Subtitled "Ten Legendary Rapids", this book by Robert Collins and Roderick Nash is one of those marvelous coffee table books that just sucks you in with beautiful photographs and holds you there with a fascinating text. Wish it had more comprehensive photographs of the rapids themselves, but it's still a book for all confirmed river runners. Hard bound.

970.....\$18.50

WHITEWATER — RUNNING THE WILD RIVERS OF NORTH AMERICA This large format paperback has lots of pictures and an entertaining text — in short, a real bargain at the price. Describes 72 different whitewater river trips in the U.S.

972.....\$7.95

IDAHO RIVER TOURS John Garren on the best-known Idaho rivers (Middle Fork, Main & Lower Salmon and Hells Canyon of the Snake). Maps, river logs and other essential river information — this book is small but very useful.

973.....\$5.95

THE MIDDLE FORK AND THE SHEEPEATER WAR Written by Johnny Carrey and Cort Conley, this is a marvelous combination history and river guide. After a brief history of early Middle Fork running attempts, the book switches into a history of the river — organized mile-by-mile starting at Dagger Falls, and working its way down to the confluence with the Main Salmon. The final major section is a narrative history of the Sheepeater Indian War taken from the combined diaries of some of the participants. We can't say enough about this book — it makes fantastic reading.

974.....\$ 9.95

MIDDLE FORK SALMON RIVER MAP Compiled by Mike Donley, this is a beautiful river map. The topo river map is divided into 7 panels which accurately pinpoint just about everything of interest on the river. On the reverse side of the map is an accurate and up-to-date description of all the rapids and camp sites. Water Resistant. 24" x 36", well worth the money.

975.....\$3.50

RIVER OF NO RETURN Another superb book by Johnny Carrey and Cort Conley. It covers the Salmon River from Galena Summit to the confluence with the Snake River some 400 miles downstream. Major sections include a history of the area, history of navigation and a mile-by-mile river map/guide (with diagrams and pictures) starting at North Fork, Idaho, and continuing to the Snake. If you ever have, or will float any of the Salmon, or just like the local lore, don't miss this book.

976.....\$9.95

SNAKE RIVER OF HELLS CANYON Some-how Carrey, Conley and Ace Barton have come up with another winner. They cover the Snake River Country starting with sections now inundated by Idaho Power's Dams, continuing through the Hells Canyon Recreation Area and down to Lewiston, Idaho. Their now familiar formula of history trivia and rivers just captivates me every time. For instance, they mention the hard-working ranching couple who lost their land to the Hell's Canyon Recreation Area but "got enough money to burn a wet mule."

977.....\$11.95

SNAKE RIVER GUIDE This waterproof edition by Verne Huser and Buzz Belknap is rich in lore and valuable river information. It guides you mile by mile from Yellowstone's South Entrance, through Jackson Hole, and as far south as Alpine Wyoming. No information on the Idaho section of the Snake River in this volume.

978.....\$5.95

FLOATERS GUIDE TO MONTANA Hank Fischer's All Purpose Guide to Montana rivers, with lots for canoeists, kayakers and rafters, particularly interesting to fisherman. This is really an appreciation book, light and fun. Read it and you too will start planning a summer to explore all those lonely rivers.

979.....\$5.95

OREGON RIVER TOURS Written by John Garren, this book covers 13 different river runs. Filled with maps, charts and some really great pictures — this book is the only source of information for many of the small but exciting Oregon rivers.

980.....\$6.95

HANDBOOK TO THE ROGUE RIVER James Quinn and James King. They have done a beautiful job with an extremely detailed guide to every major and minor rapid on the Rogue. It just overwhelms you with a wealth of river data; detailing of every rock shows the level of attention needed to pilot a drift boat successfully. Other sections on river history, flora, fauna, etc.

981.....\$9.95

HANDBOOK TO THE DESCHUTES RIVER CANYON Quinn and King again. This time a look at a fascinating river — the Deschutes. There is again a wealth of river data, but this time they did add a historical saga of the battle to build a railroad up the canyon. Lots of excellent action shots — some in color — and a good collection of historical river photographs from the railroad era. Another well done book.

982.....\$9.95

HANDBOOK TO THE ILLINOIS RIVER CANYON This is the latest from Quinn, Quinn, and King on the river they call the ultimate in the Northwest. It's a beautiful book that follows the format of their other handbooks, including sections on human and natural history and maps and photographs that show each rapid in great detail. This is the way a river handbook should be written.

983.....\$10.95

CANOE ROUTES: BRITISH COLUMBIA Richard Wright and Rochelle Wright. General information followed by approximately 100 trips ranging from a couple of hours up to weeks. Beautiful country with trips to keep you busy for years. Includes the famous Bowron Lake Chain and much, much more.

984.....\$5.95

CANOE ROUTES: YUKON TERRITORY Richard and Rochelle Wright again. Only twenty-one rivers and lakes this time, but they average over a week each. A wonderful way to plan the ultimate canoeing vacation.

985.....\$5.95

AMC RIVER GUIDE: VOL. I This is a revised work of earlier guides. It is titled "Northeastern New England", (mostly Maine) and describes well over 100 trips.

987.....\$6.00

AMC RIVER GUIDE: VOL. II This completes the two copy series by covering central and southern New England watersheds. Very good!

988.....\$7.95

THE EXPLORATION OF THE COLORADO RIVER In 1869 Captain Powell took a year out to explore the Colorado and became a river rat. Some readers may be bored, but to me this fascinating journal is priceless.

Buy it if you are planning a trip on the Grand or anywhere upstream or just get off on historical adventure.

989.....\$ 5.00

RIVERS OF COLORADO Written by Earl Perry and subtitled "Ten Easy River Trips in the Mountains, Canyons and Plains of Colorado", this is also a guide to river conservation battles in Colorado by a superb writer who is an expert boatman, kayaker and dedicated conservationist. Please do buy this book, but keep your dictionary handy — Earl never uses a little word when a big one will do. Still, sometimes when Earl forgets to use those jawbreakers, a single sparkling phrase will brighten your entire day.

990.....\$3.95

GRAND CANYON RIVER GUIDE Even if you never get to run the trip, you will enjoy this guide book. It is an experience just to go through the guide and look at the pictures. Waterproof edition by Buzz Belknap.

991.....\$8.95

DINOSAUR RIVER GUIDE Waterproof edition by Laura Evans and Buzz Belknap. Covers Flaming Gorge and Dinosaur National Monuments (Gates of Lodor, Split Mountain, Yampa, etc.).

992.....\$8.95

CANYONLANDS RIVER GUIDE Waterproof edition by Bill and Buzz Belknap. Covers Westwater - Moab, Cataract Canyon, Lake Powell and Glen Canyon.

993.....\$8.95

DESOLATION RIVER GUIDE Again, the waterproof edition by Laura Evans and Buzz Belknap. Covers the Green River Wilderness Area (Uinta Basin, Desolation Canyon and Gray Canyon).

994.....\$8.95

ROCKY MOUNTAIN KETTLE CUISINE Have you ever dreamed of having Avocado Soup or Seafood Thermidor after a long day's outing? Well, after many wilderness runs and hungry mouths, the author — Sheila Mills — has developed and tested these and many more delicious recipes. Her secret is the Dutch oven, and she explains the use and care of both aluminum and cast iron models. (Her recipes are adapted for conventional ovens, too.) We're certainly glad to see a Dutch oven cookbook that features aluminum models, since we were the first to recommend them for river use.

996.....\$7.95

THE WIND IS FREE Windsurfing has now reached the stage where publishers are bringing out books that both captivate and illustrate the art of windsurfing. Ken Winner, lead author and several times World Freestyle Champion, has teamed up with Roger Jones to create a book of rare beauty. It offers extensive explanation and instruction (novice to expert) and a section of spectacular photography of windsurfing in Hawaii.

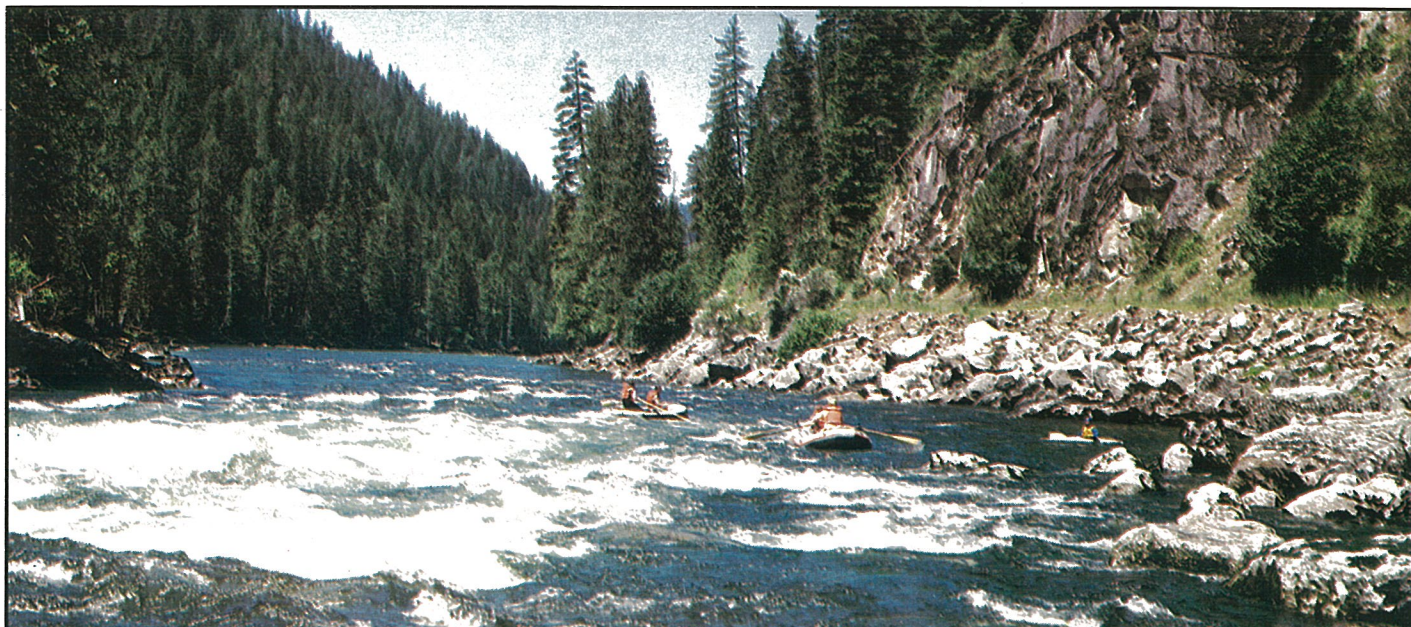
998.....\$8.95

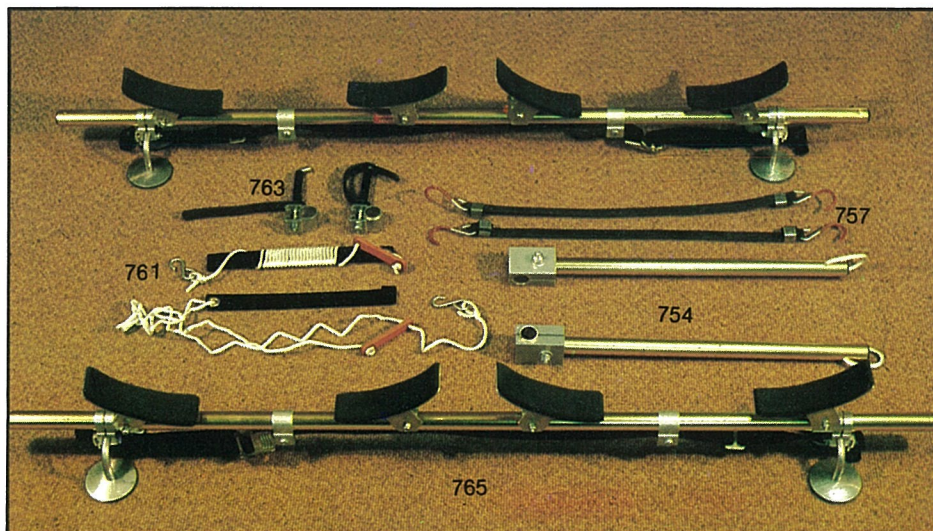
WHEREVER THERE'S WATER AND WIND "A complete guide to the sport of Windsurfing". If you are serious about the sport or recreation of windsurfing, this book should be your first choice! The author, Glen Taylor, who opened the first U.S. windsurfing school, has compiled a well-written and complete book. He has taken the effort to guide you through self-taught and school instructions with the use of photography, technique and analytical knowledge. Also included are sections on apparel and equipment maintenance, games and freestyle and the special equipment available. A definite must!

999.....\$7.95

WINDSURFING

Windsurfing, or the more generic term "sail boarding", is a rapidly expanding and exciting sport that is much more than a fad. Pioneered by Windsurfing International, the sport has exploded in Europe and is now taking off in the U.S. We will carry Sailboards and also many of the new, innovative accessories that are being developed. We're really excited about this new free-spirited sport! If you, too, are getting excited at the prospect of windsurfing, please write or call for our brochure and information.





windsurfers, kayaks, skis or canoes. These accessories also cross over to fit Quik-N-Easy carriers.

CARRIERS Yakima carriers include two 1½" gold anodized crossbars, four sets of non-slip neoprene "feet" and the patented Kevlok overcenter tie down system, using heavy duty 1" Cordura nylon webbing and vinyl-coated steel drip rail/door molding hooks rated at 300# tension. Don't forget that all these carriers work equally well on cars with or without drip rails. All racks have an approximate load capacity of 300 lbs. The 54" carrier is designed for small cars such as VWs, Hondas, Toyotas, etc. It will carry one standard size canoe or, depending on whether you use kayak saddles or the Kayak Stacker, up to 4 kayaks. For you folks with mid-size cars, or small cars with greater load demands we offer the 66" rack. It accommodates one canoe (or maybe two, depending on rack placement) but will handle up to 5 kayaks (or one canoe and two kayaks if you desire). The 74" carrier will work well on vans or trucks, handling two canoes, or up to 6 kayaks.

751 54" Yakima Carrier.....	\$46.00
752 66" Yakima Carrier.....	\$49.00
753 74" Yakima Carrier.....	\$52.00

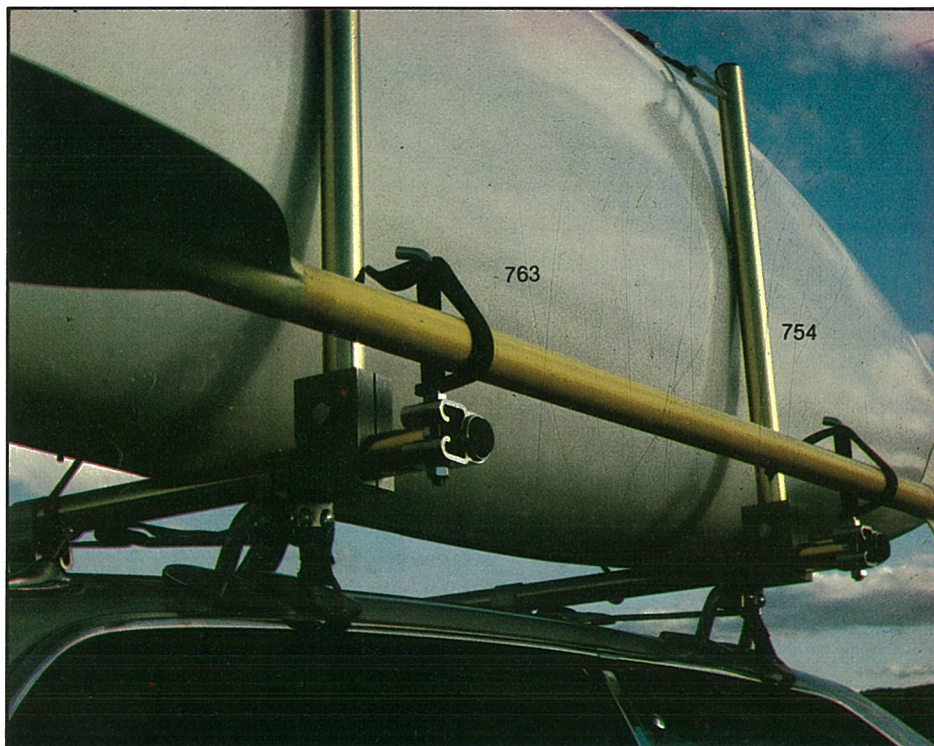
KAYAK STACKERS In the past, most kayakers used the Yakima rack with saddles, or built their own carrier with 2 x 4 crossmembers and vertical poles. Now Yakima has an upright attachment for their carriers (also fits Quik-N-Easy racks) so you can transport the kayaks on edge, reducing the risk of causing a "dish" in your boat from carrying it flat. It also lets you carry as many as 6 boats on the 74" carrier. The Kayak Stacker works very nicely for windsurfers, too. It features a solid aluminum clamp mechanism to secure it to the crossbar, a 20" gold anodized aluminum upright and a ¼" solid braid nylon tie down rope on the upper end. For fiberglass boats, I recommend using one kayak saddle under each end of the boat to cushion it from direct contact with the crossbar. Set of two kayak stackers with mounting hardware.

754.....	\$21.00 set
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KAYAK SADDLES These saddles offer you an easy, practical and safe way to carry a kayak. The boats are supported above the crossbars by these neoprene lined, aluminum cradles. They also pivot to conform to the shape of the kayak's hull. Set includes four saddles (enough for one boat), bushings to fit it to a Quik-N-Easy rack if you like and complete instructions.

755.....	\$13.25 set
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HOLD DOWN STRAPS These are a quick, convenient alternative to rope. They stretch to 190% of their original length. The 26" length fits snugly over one kayak, 32" for kayaks or smaller canoes and 38" for standard canoes. Set has two straps with vinyl covered steel hooks and

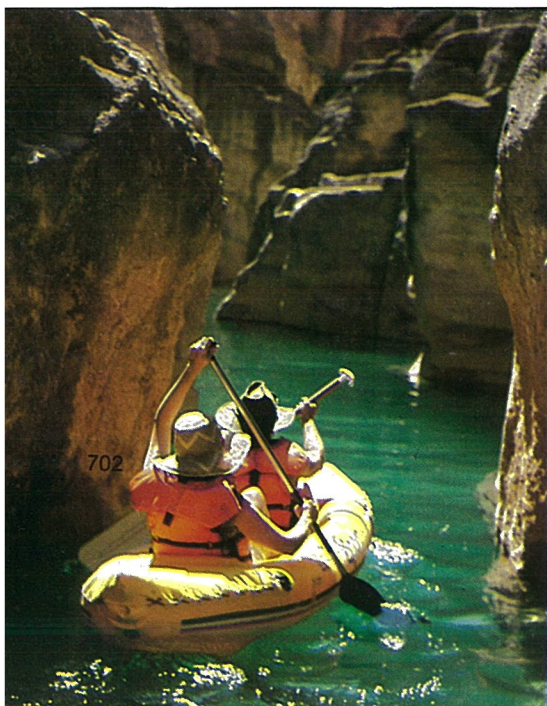


Cartop Carriers

YAKIMA

Yakima Products, long known for their high quality aluminum products, now offers a full line of versatile cartop carriers and accessories. With the right combination of rack and add-on accessories you can perfectly suit your carrier needs. Yakima Products are designed and manufactured by people who pay attention to the important details that really make the difference. The Yakima carriers work equally well on cars with or without rain-gutters, an essential feature for fitting some of the newer cars.

All Yakima Products come with a lifetime warranty against defects in material and workmanship. By using one or more of Yakima's full line of add-on accessories, you can carry almost any combination of



non-twist, flat design rubber straps. End hooks are guaranteed not to pull out.

- 757 26" Hold Down Straps.... \$3.75 pr.
758 32" Hold Down Straps.... \$4.00 pr.
759 38" Hold Down Straps.... \$4.25 pr.

BOW/STERN TIE DOWNS No more troublesome knots with this clever tie down system. The kit includes a flexible steel bumper hook (note: will not work on "solid" bumpers like those on a VW Rabbit or Dodge Omni), aluminum grab-hook for the boat, 80" of 1/4" solid braid nylon rope and a sliding aluminum tensioner, notched to prevent loss of tension in the rope. A bumper tie down is mandatory on long cartop loads such as kayaks or canoes. Set of two (enough for one boat) with instructions.

761..... \$5.25 set

MULTI-POST This is another of Yakima's versatile products. It will accommodate not only downhill or X-C skis, but also windsurfer or sailing masts and, depending on the distance between the carrier crossbars, kayak or canoe paddles. Includes two rubber covered, 4" aluminum uprights, adjustable rubber strap with long tab for easy removal and mounting hardware (including adapters for the Quik-N-Easy carriers). One set will carry one pair of skis or 3 paddles.

763..... \$5.50 pr.

54" CARRIER PACKAGE With more small cars on the road than ever before, we have set up a carrier package that includes everything you need to transport two kayaks. This rack will have little or no roof overhang on cars such as Toyota, Honda, VW, etc. Package includes: 54" carrier, two sets of saddles, two sets bow/stern tie downs, two sets 26" Hold Down straps and instructions.

765..... \$85.00 pkg.

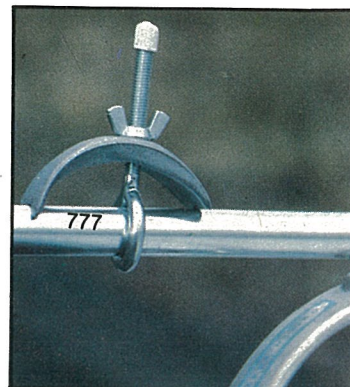
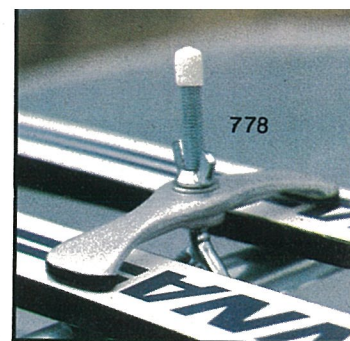
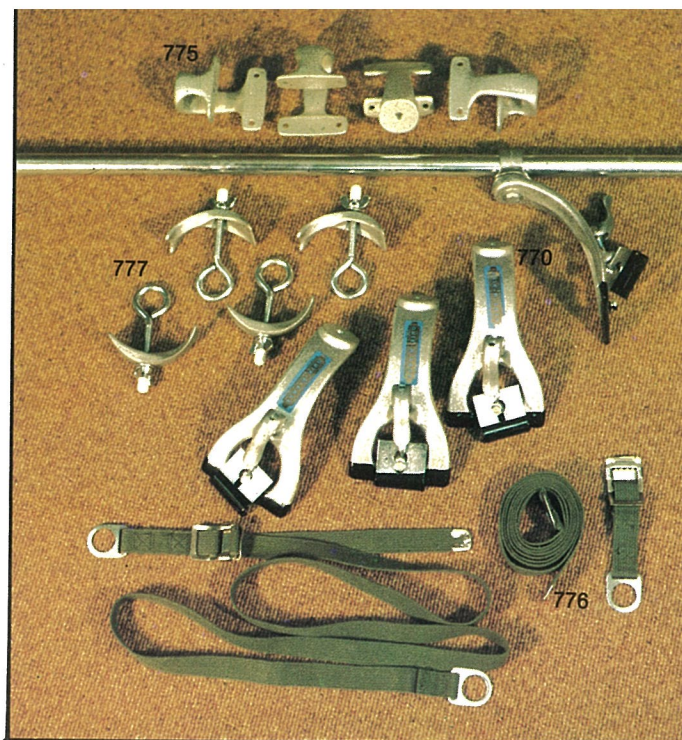
QUIK-N-EASY

Quik-N-Easy carriers feature 1" zinc-plated steel tubes and solid cast aluminum brackets. The brackets are tightened directly on your raingutter with a clever over-the-center latch that holds the carrier securely on your vehicle. The 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.

QUIK-N-EASY BRACKETS These are those neat little brackets that allow you to make your own rack (from 2 x 4's or plywood). Set includes four brackets complete with plastisol-covered gutter hooks, turn-buckles, etc. All you need to do is drill 4 holes, mount the wood and you have a rack.

770..... \$22.00 set

60" QUIK-N-EASY CARRIER This standard bar carrier includes 4 tumbled yokes with levers, clips, tube holders and two 60"



long 1" diameter steel tubes. To carry one canoe, add hold downs and bow and stern lines. To carry kayaks add saddles and a hold down system.

772..... \$36.00

78" QUIK-N-EASY CARRIER Same as the #772 carrier except the bars are 78" long. Have no concern that two canoes or eight kayaks might be too heavy for this carrier, the Quik-N-Easy zinc plated steel tubes are safety rated to carry up to 500 lbs.

773..... \$42.00

CAMPER BRACKETS This bracket fits on your canopy or camper. Requires drilling before mounting; bolts not included. Quik-N-Easy's answer for the person who wants to build his own rack, but has a canopy. Set of 4 brackets.

775..... \$18.00 set

CANOE STRAPS These clever 1" straps buckle together and have metal attachments with circular holes that fit over the Quik-N-Easy tube. Thus, the canoe is firmly attached to the bar carrier with a minimum of effort. We still suggest you also use bow and stern tie downs. Set consists of two 7 ft. straps for use with 1 canoe.

776..... \$7.75 set

GUNNEL CLAMPS These clamps slide over the tube of the bar carrier and then clamp onto the canoe gunnel to hold it firmly in place. Clamps may mar some types of gunnels, so padding is advised. This is an excellent high strength system, but we still recommend the use of bow and stern tie downs. Set of 4 clamps. (Will not fit Yakima carriers.)

777..... \$7.00 set

SKI CLAMPS The ski clamp set includes 2 clamps with eye bolts, wing nuts and washers. Set holds 1 pair skis. (Will not fit Yakima carriers.)

778..... \$8.25 set

MANTA RUBBER ROPE This is heavy-duty stuff. Use it with #781 hooks for securing canoes or kayaks. 12' and 4 hooks make a good bow and stern tie down set. We've used it to lash down gear in a raft — great for just about anything. Plan on about 60% stretch factor to give sufficient tension for most uses. Also add about 6" per hook.

780..... \$3.33 ft.

STEEL HOOKS Hooks for use with the #780 rubber rope. You need 2 hooks for each piece of rope. Package of 4.

781..... \$1.00 set



Camping Equipment

TIMBERLINE TENTS

Why is the Eureka Timberline tent a best-seller? It's the lowest priced 100% satisfactory tent for long-term use and, therefore, the best tent for the money. For less money you get marginal materials and workmanship, and it takes a lot more money to get significant additional features. The Timberline is a free-standing tent that not only looks appealing, but is a cinch to set up. Suspended from its exterior frame by shock cord, the breathable ripstop nylon tent always stays taut — even under stress of wind and rain. The waterproof floor wraps up 12", and the fly extends out 20" in front and back for good wet weather ventilation. The two and four person tents feature a 1.9 oz. ripstop K-Kote fly, floor, and breathable roof. The six person has the same specifications, but with a 4 oz. Super K-Kote oxford nylon floor.

Eureka makes the Timberline better each year with "minor" improvements that really add up. Now, the poles (made of high strength seamless aluminum tubing) are shock corded, to prevent losing parts and to make set-up extra speedy. The new, unique entryway features a twin track closure with netting on the outside. One zip closes both the door and netting, another zipper controls ventilation from the inside. The netting on both the door and window is "no-see-um" proof. (Not familiar with these pesky little critters? They really do exist. They bit like flies but are so small you can't see them, hence the name.) We are sold on these tents — you will be too. Comes complete with poles, stakes, rainfly and carry sack.

4-PERSON TIMBERLINE This is a great family tent with lots of room for additional smaller campers. Weighs 9 lbs. 5 oz. with poles, stakes, fly and carry sack. Caramel/Sandstone. Floor dimensions: 7' 2" x 8' 9"; height at highest point 4' 10".

800.....\$167.50

2-PERSON TIMBERLINE Weighs 6 lbs. 14 oz. with poles, stakes, fly and carry sack. Floor dimensions: 5' 3" x 7' 2"; height at highest point 3' 6". Caramel/sandstone.

801.....\$117.50

6-PERSON TIMBERLINE This is the largest, lightest tent in this price range that we know of. Big enough at 8' 6" x 10' 3" with a 6' 3" peak to accommodate a four-person family and all their gear, yet still light enough at 17 lbs. to make it practical for river camping or backpacking. An excellent choice for the river running family. Includes poles, stakes, fly and carry sack. Sandstone/brown/tan.

802.....\$265.00

PLASTISEAM SEALER Sealing seams on tents, tarps, jackets, etc. is a real drag because it takes forever. (That's why most manufacturers don't do it for you.) Plastiseam has a roll-on applicator that goes on many times faster than the other seam sealers. Plastiseam can also be used to repair small tears (one inch or less). Waterproofs even when fabric is wet and is very easy to use. Plastic 2 oz. roll-on dispenser. (Flammable, no parcel post or air shipments, please.)

803.....\$2.25

THERM-A-REST EXPEDITION Why didn't I think of this one? Open-cell foam makes a good pad, but is bulky. Air mattresses are cold and uneven, but fold up into a small bundle. These people put a very light open-cell foam in a nylon air mattress. You just unroll it, open the valve and it sucks in the air! Give it a couple of puffs if you want it a little firmer and close the valves. To pack, open the valve, roll it up tightly and close the valve. It stays rolled and slips into a plastic case only 5" in diameter. The Expedition model is Therm-A-Rest's full-size version, and I — for one — appreciate its luxury! Coated nylon twill, 72" x 20" x 1 1/2", weighs 2-1/8 lbs.

807.....\$43.50

THERM-A-REST BACKPACKER This is the shorter version of the Expedition mattress. The 47" length still gives you a good night's sleep without the extra bulk and

weight of the full-length version. (It's less expensive too!) This one makes a bundle only 4" in diameter inside its plastic case. Coated nylon twill, 47" x 19" x 1 1/2", weighs only 24 oz.

808.....\$31.50

NRS WATER BUCKET It looks like a feed bag, but it's great for carrying water. You can easily fold the bag in your pack or use it for storage. The bag is constructed of bright blue PVC-coated Dacron with a 26" yellow nylon rope handle. Dimensions are 7" x 7" x 11" — it will carry about 1 1/2 gallons. A great little versatile bag/water bucket.

810.....\$9.95

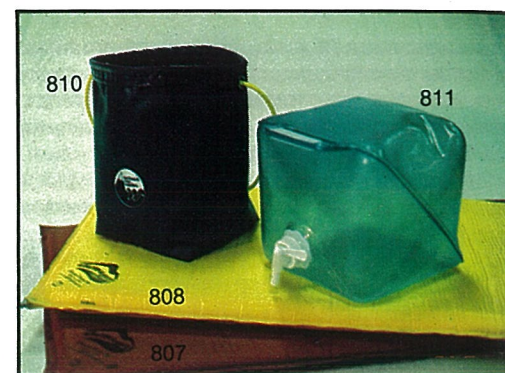
COOLERS AND CONTAINERS

2-1/2 GALLON WATER CONTAINER Many rivers have enough pollution that it is advisable to carry your own water — sometimes between drinkable springs or side streams, and sometimes for the entire trip. Folding water jugs are great for canoeists, rafters and kayakers. They are easily stowed, light and flexible. These Igloo plastic folding jugs have a mouth and spout system (English import) which is the best we have seen. Very clever, and allows you to set the container on a box or log and fill your cup with one hand.

811.....\$5.25

5 GALLON WATER CONTAINER Same as above, but twice as large. Folds down to 3" x 9" x 12".

812.....\$5.75



80 QT. GOTT COOLER Gott coolers are both durable and practical. The 80 qt. model has integral molded handles that are especially good for river trips because you can reach in to grab the handles inside the cooler cradle of a frame. The handles are sturdy enough to tie the cooler down, as well. Another nice feature is the freeze bottles that nest in the lid. With block ice and freeze bottles, you can keep food cold for a whole trip. The 80 qt. Gott has the capacity you need for longer trips and fits our Universal and Expedition frames. Two removable food trays, three freeze bottles and integrally molded handles. Dimensions are: 34 1/4" (L) x 16" (W) x 152" (H). Blue with white lid.

815.....\$77.50

COOLER SEAT PAD This pad fits our #815 80-qt. Gott cooler. It's made with a white vinyl, waterproof cover (3 1/4" Length x 16" Width) and a 3" deep foam fill. Makes for an additional, comfortable seat!

816.....\$29.00

151 QT. IGLOO COOLER This is the daddy to all coolers; really huge and can fit in our Super Frame for large boats (holds 12 cases of beer). Right for large parties or long trips. So large that some boaters just leave it on the boat for the whole trip. Deep food tray, strong nautical rope and wooden handles. All white. 42-7/8" (L) x 18-7/8" (W) x 20-1/8" (H). Must be shipped motor freight.

818.....\$199.00

DUTCH OVENS/CAMPING SUPPLIES

A Dutch oven is a wonderful cooking utensil for outdoor (and indoor) use. After some research, we found cast aluminum is a very efficient heat conductor and performs very well. (Efficiency becomes important when you carry your own fuel.) Light weight and tolerance to unusual cleaning methods (scrubbing with sand) makes the aluminum cookware an ideal river accessory. Lip on lid so you can place coals on top for more even heat.

10" ALUMINUM DUTCH OVEN Use this for smaller parties, when space and weight are critical, or for side dishes. I'm tempted to take this one on a kayak trip when we don't have raft support. Nests inside the 12" Dutch. Weight including lid, 4 lbs.

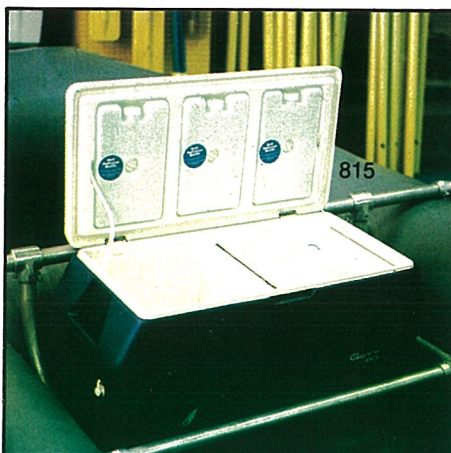
820.....\$19.00

3-LEGGED GRILL This small grill stand fits the 10" Dutch oven. Useful for those of you who prefer not to place your Dutch oven directly on the coals. Some foods do cook better with indirect heat. Weighs only 7 1/2 oz.

821.....\$4.95

12" ALUMINUM DUTCH Serious river cooks usually use this size Dutch for cooking main dishes, desserts and some breakfast menus. Weight including lid is 7 lbs., has 1 1/2" long legs.

822.....\$25.00



ROCKY MOUNTAIN KETTLE CUISINE Have you ever dreamed of having Avocado Soup or Seafood Thermidor after a long day's outing? Well, after many wilderness runs and hungry mouths, the author — Sheila Mills — has developed these and many more delicious recipes. Her secret is the Dutch oven, and she explains the use and care of both aluminum and cast iron models. (Her recipes are adapted for conventional ovens, too.) We're certainly glad to see a Dutch oven cookbook that features aluminum models, since we were the first to recommend them for river use.

996.....\$7.95

ALUMINUM POT PLIERS These are well designed because they have a good grip, and the gripping angle lets you lift without getting scorched. They are compact, light (4 oz.) and have a grab loop for wire handles. If you don't buy these pliers, try those slip-groove waterpump-type pliers from your local hardware store. They are better suited for repairs on the river than are the aluminum pot pliers.

823.....\$2.75

10" ALUMINUM GRIDDLE Perfect size for small groups, 10" x 10" griddle weighs only 2 lbs. Same quality workmanship as the Dutch ovens; includes carry handle.

824.....\$10.50

18" ALUMINUM GRIDDLE This is the one that we use the most because with its 10" x 18" size there is enough room to cook bacon and eggs for a large party. Includes carry handle and weighs only 3 lbs.

825.....\$13.95



MIRRO TEFLON GRIDDLE Teflon's popularity has caught on in campware. You can fry several good-sized fish (if you're lucky enough to catch the slippery creatures) on this 10" x 16" griddle. You don't have to take along extra fats or oils for cooking on the non-stick surface, either. And when the last bit is down, instead of scouring — just rinse and rub the food particles gently away. The detachable handle is a nice feature for space-conscious packers. Weighs 2 1/2 lbs.

827.....\$13.50

LEXAN TABLEWARE Plastic picnicware has many advantages for river trips, but is made of Polystyrene (el cheapo bottom-of-the-line material). Now (at last!) International Silver has made good permanentware out of top-of-the-line Polycarbonate, trade name Lexan — just about the toughest material around. A set weighs less than 2 oz. and — of course — won't rust. Get yourself a set and keep them forever! Place setting consists of knife (won't take the place of your Swiss Army knife), fork, spoon and soup spoon.

829.....\$1.75 set

CAMPER'S GRATE This year Mirro has added extra rungs on one side of their heavy gauge grate so you can cook hamburgers, too. Rungs are 3/4" apart on one side and 2" apart on the other. The grill's 11" legs fold into a nice compact package: 24" (L) x 12 1/2" (W) x 1 1/2" (H). Weighs 5 lbs. 14 oz.

830.....\$16.00

KAYAKER'S GRATE Mirro also makes a little grate that's nice for kayakers or a very small party. Made just like their Camper's Grate but in a mini size! Rungs are 1" apart. Size folded: 12 1/2" (L) x 6 1/2" (W) x 3/4" (H). Weighs 12 oz.

831.....\$5.50

SCOTCH BOX This has proved to be a most popular item. It's a box with a grate and a lid (resembling a tool chest). Also has short legs so you won't scorch the ground. You line it with foil, fire up your charcoal, and start cooking. When you finish, simply close the lid and snuff out the fire. It saves your charcoal for the next time. You can also carry your ashes out in it (A requirement on some rivers now). Comes complete with handle, latch, grill, etc. Color black, dimensions: 17" (L) x 8½" (W) x 7½" (H). Weighs 8 lbs. 4 oz.

834.....\$15.95

PEAK I BACKPACKER STOVE Coleman knows stoves, and their backpacking stove is super. Although designed for backpackers, we feel that this is the perfect small stove for river use. Light weight and compact size make it very easy to pack, either in a kayak or a raft. It is easy to operate and comes complete with instructions, folding legs, integral windscreen and pan support. Even if you take a larger stove for cooking, this one is handy for coffee in the morning because it's efficient and fast! Dimensions are: 6½" (H) x 5" (W) x 5" (L), weighs 29 oz. empty.

835.....\$35.00

PEAK I CONTAINER This two-piece aluminum case holds your Peak I stove, doubles as a pair of cook pots, and even includes a pair of lightweight pot tongs. You need something to hold your stove, so why not get a product designed for the job, and two cook pots to boot? (Clean containers thoroughly before using for food to remove traces of fuel.) Weighs 10 oz.

836.....\$10.95

PEAK I STOVE SACK A little bag to secure the Peak I Stove snugly and protect it with ¼" foam. This bag has a drawstring top with cordlock and weighs just 1 oz. Also great for cameras, fishing reels, binoculars, etc.

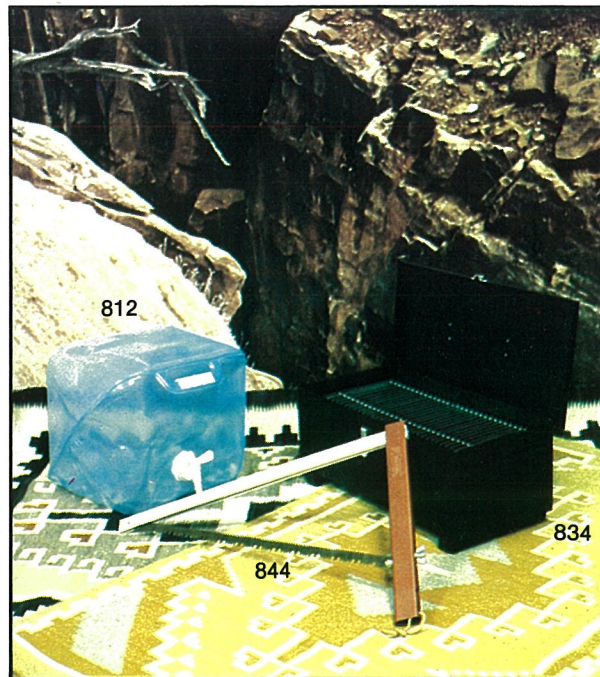
837.....\$6.50

PEAK I LANTERN This compact lantern was designed for river runners and backpackers. Coleman says it won't flicker or blow out even in a monsoon. We haven't used it in a monsoon yet, but it sure is a fine lantern. It operates on white gas and stands only 9½" tall with a dry weight of 30 oz. The lantern has an eight oz. fuel capacity and will burn up to 2½ hours without a refill. Features include a pressure pump, automatic fuel tip cleaner and a simplified lighting process. This lantern uses Coleman's special compact mantle, model #20-101 only.

840.....\$37.50

MANTLE This special compact mantle was designed for the Coleman Peak I lantern.

841.....\$1.00 pr.



LANTERN STUFF SACK This lantern sack includes the same features as the stove stuff sack, only it's longer and just a bit skinnier. Also great for holding other valuables that might require a bit of padding.

842.....\$6.50

SVEN SAW Requiring fire pans for river use makes a saw, which was formerly just a nice optional item, almost a necessity. The Sven saw folds and slides into itself, making a package just ½" x 2" x 21". Saw teeth are covered so they can't cut or puncture anything. This is the most compact saw that we know of that cuts wood easily. Weighs less than 1 lb.

844.....\$10.25

SVEN SAW EXTRA BLADE Blades can get broken, so here is a spare.

845.....\$3.25

FOLDING TABLE AND SEATS This table folds into a compact carrying case and then unfolds to make a table with four seats. We have taken this table everywhere, from weekend trips to the Grand Canyon. It survives four big people, sloped sand beaches and still folds easily. Best table idea by far. Buy this if: a) the cook requests it; b) you are car-camping away from campgrounds with their own tables. The surfaces are masonite and though water resistant, should be covered with several coats of paint or plastic sealer (spray urethane works well). Folded case size: 33" x 14" x 4"; table top surface measures 33" x 28". Comes with carrying handle. Weight: 30 lbs.

847.....\$62.50

SLING LIGHT CHAIR No more cold, damp seats around the campfire. The Sling Light is a light weight foldable chair, no heavier than a 16 oz. can of beer. It's made with a waterproof ripstop nylon padded sling seat and aluminum alloy seamless tubing. Supports 250 lbs. with ease and folds flat (27" L x 16" W x 1½" D) for easy packing.

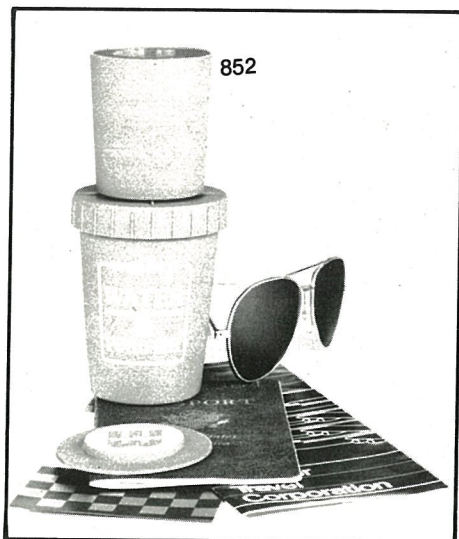
848.....\$34.50

SUN SHOWER A very clever vinyl bag with one clear and one black side — fill it with 2½ gallons of cold water and in a couple of hours it's hot. Guaranteed to make you a hero. Fill it in the morning and strap it on your gear. Somebody will want to use it at lunch. Refill, and ration it out at camp. Set out with soap for people to wash their hands. This "luxury" has become a necessity on my trips. It will be on yours, too. Comes complete with hose, on-off control, shower head and a "ready" temperature gauge.

849.....\$13.50

WATER PURIFIERS

We used to think nothing of drinking water from clear mountain streams or even some of the bigger, more isolated rivers in the West. But then we were introduced (unexpectedly!) to *Giardia lamblia*, a protozoan menace that causes an extremely unpleasant stomach upset. *Giardia* is becoming very common throughout the West, so we strongly recommend carrying all your drinking/cooking water or treating all river water before use. (An effective treatment is boiling water for 20 minutes.) We are currently investigating water treatment systems that produce water free from *Giardia*, as well as bacteria, by filtration. If you are interested, please contact us for more information.



POTABLE AQUA There are very few rivers with water you can safely drink anymore. Best to carry your own water, but when you run out, have a bottle of these germicidal tablets along to be safe. One tablet in a quart of questionable water makes it usable in just 10 minutes. Unfortunately, it doesn't work against *Giardia*, a local protozoan menace (only boiling or a water purifying filter does). Please check the water situation before embarking on any trip. Bottle of 50 tablets.
850.....\$2.75

WALBRO WATER PURIFIER The Walbro Water Purifier is a good solution to the problem of having clean, safe drinking water no matter where you are. All you do is pour water into the cup, and pure water flows out the bottom. It uses a unique antimicrobial agent (Triocide©) to purify relatively clear water and make it safe for drinking without leaving a "chemical" taste. (Note: Water with lots of "crud" should be allowed to settle before running it through the Purifier.) It packs into a small space (about the size of a drinking glass) and weighs only 3½ oz. It's simple to use and convenient to pack and carry. Take it backpacking or when you're traveling any place in the world where the water is questionable. One Walbro Water Purifier will treat 100 gallons of water (about a year of use), and the system is EPA approved.

852.....\$24.95

STING-EZE Yellow jackets are a real problem on some Idaho rivers, and most of us get stung several times. Pat swears by this stuff to reduce the discomfort. Keep it in your pocket; don't bury it in your bag! Good for all stinging insects. ½ ounce bottle.

854.....\$2.00

FLOATER FIRST AID KIT This first aid kit, designed for water sports, includes band-aids, antiseptic swabs, antibiotic ointment, salt tablets, gauze pads, antibacterial soap, a survival mountain first aid

manual and more. All ingredients are packed in a polypropylene jar with a screw-on lid. Not designed to cover really serious injuries, but this small kit does satisfy the first aid kit requirement now in effect on some rivers. Don't be over confident — this won't be the same as a fully equipped doctor — but do be prepared for those everyday minor injuries.

855.....\$13.50

SUNSCREEN

Last year — surprise! — no painful sunburn or blisters. Johnson & Johnson makes an excellent sun protection product for use in water sports. When paddling you need a sunscreen that doesn't require frequent reapplication as well as one that works even if you get dunked. J & J Sundown does. The S.P.F. (Sun Protection Factor) number indicates the number of hours you're protected, for both when you're dry and after immersion. The higher the

number, the more hours you are protected.

SUNDOWN 15 SUNSCREEN Fairskinned? Going on a Grand Canyon trip? Get a couple of bottles of this to save your skin from the desert sun. It's an effective sun block. 4 fluid oz.

856.....\$4.25

SUNDOWN 8 SUNSCREEN If you're going on a long day's journey in the sun and need protection for sensitive skin, this is a good choice.

857.....\$4.25

SUNDOWN 6 SUNSCREEN Good protection for the average trip in the summer sun. 4 fluid oz.

858.....\$4.25

SUNDOWN 4 SUNSCREEN After you have some tan, or if you don't burn easily, this lets you get a good tan without burning. 4 fluid oz.

859.....\$4.25





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