



Northwest River Supplies

1977

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INTRODUCTION

Northwest River Supplies is dedicated to providing white-water equipment at reasonable prices. Recognizing that there are many types of rivers, river trips, and budgets, we carry the best equipment we can find for every level of use and proficiency. Your suggestions for new items and comments on existing items are always welcome. Because careful equipment selection can make the difference between quality enjoyment and pure misery trips, we test catalog items ourselves, or get the opinion of knowledgeable users before listing whenever possible. We stock all items in Moscow with the exception of a couple of the biggest boats which are drop shipped.

To help you in your selection, all items are described as honestly and fairly as we know how. Our comments are more positive this year because we have improved or replaced several items that were marginal before.

TERMS

Payment with order (Bank Americard and Mastercharge accepted) or COD (you pay the COD fee). You may order by phone and we will send your order out COD by UPS or Parcel Post (COD not advisable for most boats and long oars which must go motor freight because their collect charges are pretty stiff - min. charge of \$6.00 & up).

GUARANTEES

Most of our items carry manufacturers guarantees of various durations. So far every manufacturer has stood behind their product with great honesty and pride. Naturally we will refund your money on any items you are dissatisfied with when you receive them. On items which prove less than satisfactory in use, guarantees vary from none to a five-year guarantee against fabric deterioration by Avon. We will try to work something out to your satisfaction no matter what the guarantee.

Our hours, both for retail and catalog sales are: 12:00 to 6:00 p.m. Monday through Friday, 9:00 a.m. to 4:00 p.m. Saturday (Saturday hours from February 1 through August 31 only).

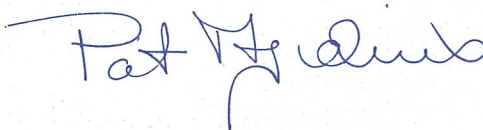
SHIPPING

Our freight policy is to charge 6% of the invoice for freight with a minimum of \$1.50 and a maximum of \$9.00 in Idaho, \$15.00 in WA, OR, CA, NV, MT, WY, AZ, NM, CO, UT, and a maximum of \$24.00 in the rest of the lower 48 states. Long oars, 8 ft. and over, pay maximum freight charges. Alaska and Hawaii motor freight orders will be shipped freight collect. Whenever possible, we will ship by UPS, however, if you use a post office box number we're forced to use parcel post (we've found it to be much slower.) We hope to break even on freight with this policy.

All orders of \$500.00 or more are Shipped Prepaid Anywhere in the lower 48 states.



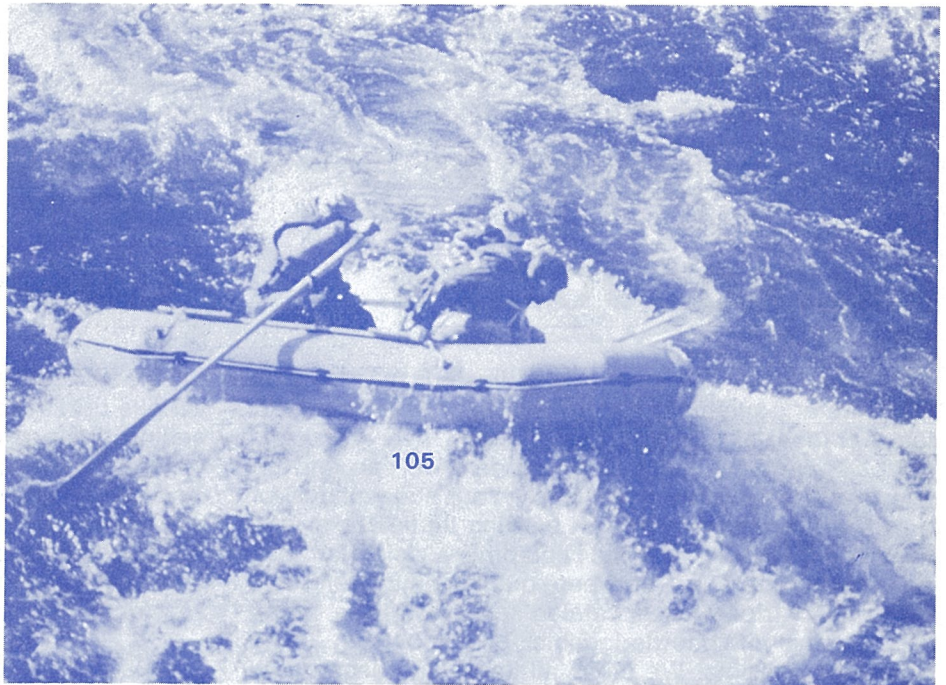
Bill Parks



Pat Agidius

RAFTS

This year we are finally bringing out our own line of low cost boats. These are related to some earlier models you may have seen. We have worked out some design improvements and now feel these boats are an outstanding value. During the last year, there has been a lot of controversy about the relative merits of Avon and Campways rafts. Avon had Campways fabric tested and couldn't find any Hypalon (all neoprene). Campways cried foul and had their fabric tested by another company which found a reasonable percentage of Hypalon on the exterior side of the fabric. Avon uses Hypalon on both sides, Campways uses it on exterior surfaces only. We felt a little unhappy being in the middle of this argument, but still believe we have an obligation to all our customers to give our analysis of the situation. Pat has done some research into this, and the following is his understanding of the differences. 1) There are some quality differences between the materials used by Avon and Campways — Avon should last longer and be more durable. (We didn't say this last year and we should have.) 2) Both companies offer boats of superb design. 3) Avon probably has the best all around boat for general use, including fishing, yacht tending, paddle boating, etc. in the Redshank. 4) Campways has the better design in personal sized rafts for river running (rowing) in the Hopi and Miwok. 5) All companies offer guarantees against defects in materials and workmanship while only Avon has a five year guarantee against fabric deterioration. Buy what fits your needs and your pocketbook. Call or write us for a frank discussion of the merits of any boat related to your personal needs.



105

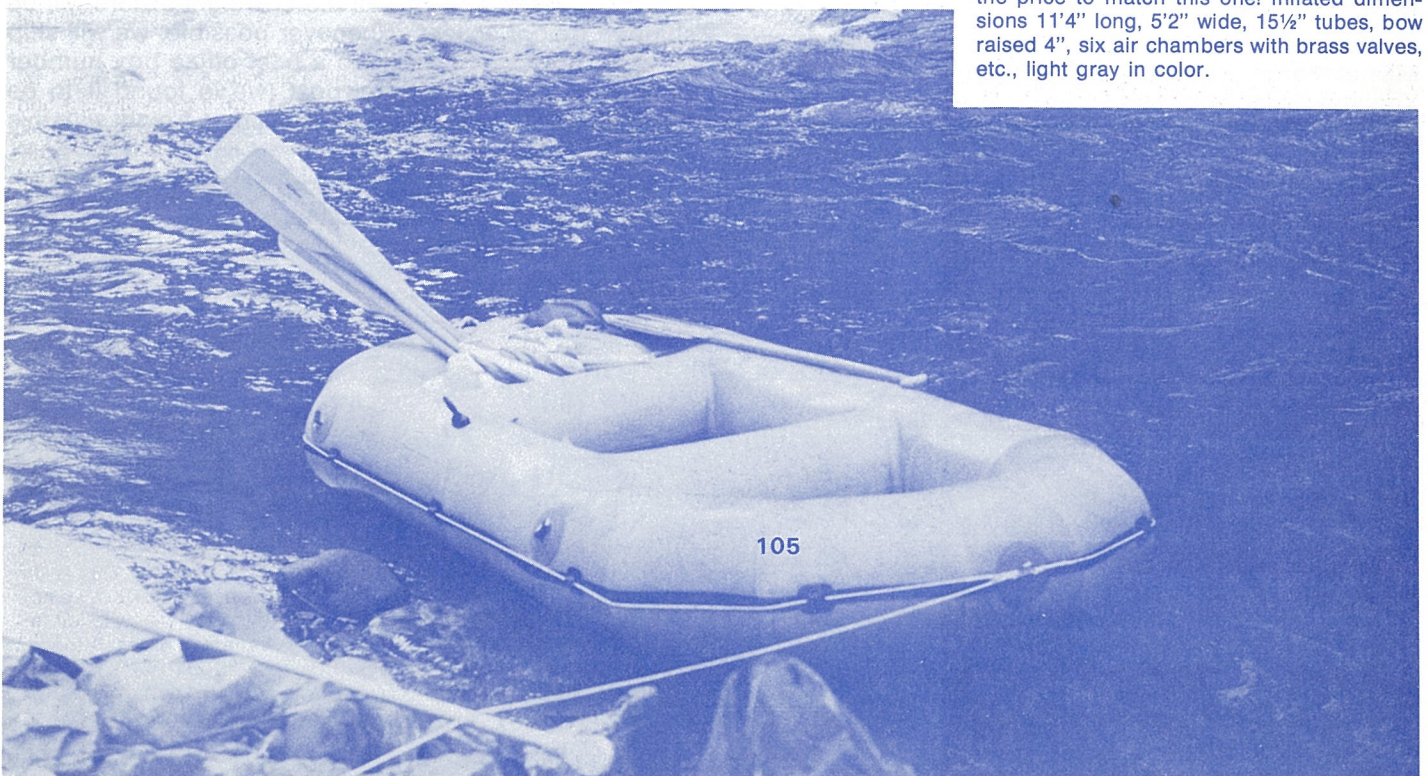
\$185.00

SPRITE (NORTHWEST RIVER SUPPLIES)

These 6-man rafts are light and maneuverable, with a raised bow, six air chambers and two intergal cross thwarts. The tubes are made of 24 oz. neoprene/nylon material, and the floor has also been beefed up from earlier models. Four paddlers can really move these boats around. They are light, fun and the best relatively inexpensive raft on the market today (a good boat for day trips or a week on the Salmon). We have tested this raft extensively, both paddling and rowing, and we haven't found a boat at twice the price to match this one! Inflated dimensions 11'4" long, 5'2" wide, 15½" tubes, bow raised 4", six air chambers with brass valves, etc., light gray in color.

NORTHWEST RIVER SUPPLIES

Northwest River Supplies is importing a limited number of improved neoprene boats for 1977. We are also buying some boats from UDISCO. All boats have a raised bow, two cross tubes and six air chambers. They are light, but relatively sturdy, manufactured from 24 oz. neoprene/nylon material. These are good boats for many purposes, and you don't have to be on a limited budget to enjoy them.





114

106 SPRITE PACKAGE \$400.00

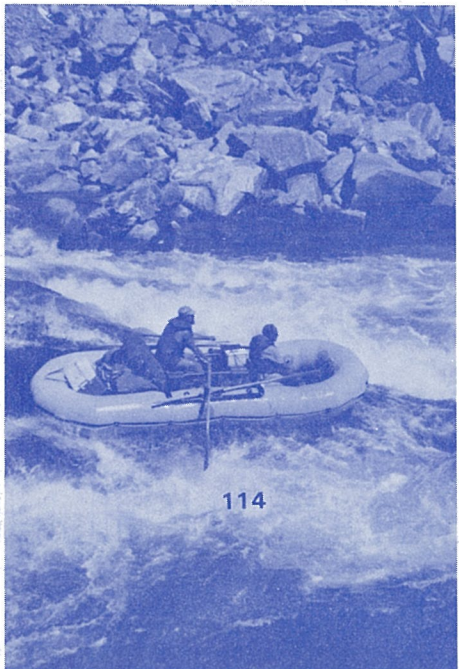
Everything you need except yourself, a life jacket, and the river! Includes Sprite, #177 frame, a pr. manganese oarlocks, 3 oars, oar stoppers, rope to wrap the oars, 5 D-rings, 4 frame straps, adhesive, thinner/cleaner, roller/rasp, repair material and directions (if you want them) on how to put it all together.

114 14-MAN (NORTHWEST RIVER SUPPLIES) \$295.00

This is my favorite because it has the size to be loaded down with all the extra gear nobody else has room (or inclination) for. With a short frame this boat just snakes over the waves (wear patches protect the tubes from frame abrasion). With the new raised bow you can maneuver precisely, and still use greater inflation pressures for more stability. I really liked the old (flat bow) model, but didn't realize how much the raised bow improved the handling. Designed by us with 6 air chambers, brass valves, heavy duty floor, and 6 mounted D-rings, this model may be the best buy around for a large raft. Inflated size, 6'3" wide, 16' long, 21" tubes, bow raised 12", tubes are 24 oz. neoprene/nylon material, light gray in color. We recommend 9' oars for this raft.

115 14-MAN PACKAGE \$450.00

The NRS 14-man raft and number 175 aluminum and steel frame.



114

OTHERS

118 10-MAN UDISCO \$250.00

Inflated size approximately 5'10" wide, 14' long, with 18" tubes, two integral thwarts and a 9" raised bow. Tubes are light gray, 24 oz. neoprene/nylon material with heavy duty floor, raft weighs about 65#. This raft is great as a large paddling raft, but here in the Northwest we usually put on a rowing frame and use it with 3 or 4 people, or 1 and gear for 4-6 kayakers. The 18" tubes and medium length give it excellent handling characteristics. If you can manage to escape with a light load, this raft just skims over the water. We recommend 8½' oars for the 10-man.

119 6-MAN YELLOW DUCKIE \$90.00

Inflated dimensions approximately 5'2" by 11', yellow tubes with blue floor. This is the same boat as we offered last year, but we now have a lower price because we switched importers and placed a larger order. Although this model doesn't have cross tubes, it's still a good buy. Customers report these boats to be very strong, durable and resistant to abrasion.

AVON

Avon has been the Cadillac of the rafting industry with the Redshank as the best small craft around. The Redshank series are excellent boats and we recommend them to anyone who wants a boat to row, paddle, or put a motor on and go fishing. The Redshank is, in our opinion, the best designed 4-person **quality** paddle boat on the market. In the larger boats, the Avon Adventurer, Professional and Spirit are the finest quality rafts imported into the U.S. today. Avon has an unmatched reputation for quality and durability. (They've been known to back their guarantee long after the one year period when they felt a defect was involved.) Avon also carries a five-year guarantee against fabric deterioration in addition to its one-year guarantee against defects in material and workmanship. Please write us for an Avon brochure if you have additional questions.

120 \$775.00

AVON REDSHANK

5'6" wide, 12'3" long with 15" tubes. The Redshank weighs 62 pounds and is still the best all around small boat. Comes complete with two inflatable cross thwarts, integral oarlocks, repair kit, foot/hand pump and carrying bag. This is really a quality boat, and for anyone who wants a small boat for several uses, this is the best. This has recently become very popular as a frame-less river running raft, securing the gear above the floor on an air mattress.

121 \$800.00

AVON REDSHANK PACKAGE

Includes bow dodger and either four paddles or three 6½' ash oars. Add \$10.00 if you use a frame and prefer 7½' oars.

124 \$38.00

REDSHANK MOTOR MOUNT

Fits the Redshank for use with up to a 6 H.P. motor.

All of the Avon River Boats — Adventurer, Professional, and Spirit — come equipped with duffle bag, high capacity foot bellows, repair kit, pressure gauge, laced-in thwarts, lifelines, large strong D-rings, bronze bow and stern carrying handles, storage pockets, and raised bow and stern.

125 \$1295.00

AVON ADVENTURER

River runners started liking this boat as an excellent group paddle boat. With some design improvements for rowing, it has earned a place as a good expedition and personal rowing boat. Inflated dimensions: 6'8" wide, 13' long, 18" tubes, 11" bow raise, weighs 88 pounds.

126 \$1350.00

AVON ADVENTURER PACKAGE

Includes the Adventurer and two pair of 9' ash oars.



127 \$1565.00

AVON PROFESSIONAL MARK II

The Professional weighs 110 pounds and is 7'4" wide and 15' long with 20" tubes. The earlier models of this boat were Avon's first attempt to produce a commercial model. By 1973, they knew that to really compete they would need a larger boat. At that time, they should also have increased the tube size of the Professional. Now they have taken this boat which many feel gives the best ride of any commercial raft and added a couple of inches to the tube size and made other improvements.

128 \$1675.00

THE PROFESSIONAL PACKAGE

Includes the Avon Professional and two pair of 10' ash oars.

129 \$1795.00

THE AVON SPIRIT

The Spirit weighs about 150 pounds, and is 8' wide and 17'6" long with 21" tubes, 12" bow and stern lifts. We hear many complimentary statements about this boat, and recommend it very highly for those of you who want a really big raft.

130 \$1900.00

SPIRIT PACKAGE

Includes the Avon Spirit and two pair of 10' ash oars.



CAMPWAYS

Here are some specifics about all the 1977 boats made for Campways in Japan.

They all have recessed hi-volume valves and raised bows and sterns. The fabric is a 35 oz. Hypalon/neoprene with a heavy-duty 60 oz. floor. Boats are individually pressure tested to eight P.S.I. and have a normal operating pressure of 2 3/4 P.S.I. All boats come with repair kit and D-rings.

135 \$600.00

THE PIUTE

Inflated size: 5'5" wide and 11' long with 15" tubes, and weighs 50 pounds. This seems to be an ideal boat for those who like a small maneuverable and exciting boat to row or paddle.

136 \$650.00

PIUTE PACKAGE

Includes the Piute, plus the Campways heavy-duty foot pump, and either three 6 1/2' oars or four quality paddles. Add \$10.00 if you use a frame and want 7 1/2' oars.

137 \$700.00

THE HOPI

Inflated size: 6' wide by 12' long with 17" tubes, weighing 65 pounds. This boat is a lot drier because of its larger tube size and design. This is probably the best small size boat for trips, etc. You'll have enough space for gear and 2 or 3 people.

138 \$745.00

HOPI PACKAGE

The Hopi and all its accessories plus a heavy-duty foot pump and either three 8' oars or four quality paddles. Add \$10.00 if you use a frame and want 8 1/2' oars.

140 \$950.00

THE MIWOK II

Here it is, 6'8" wide and 13'6" long with 19" tubes, and weighs about 130 pounds. (Really a stubby rascal). About a foot wider (inflated) than the UDISCO 10-man but shorter. (This one goes anywhere). The Miwok has become a very popular boat for private parties on the Rivers of the Northwest. A perfect raft for many uses; we like it because it'll carry 4 people and gear for those extended trips and keep its excellent handling characteristics.

141 \$1050.00

THE MIWOK PACKAGE

The Miwok complete with accessories, plus a heavy-duty foot pump and 2 pair of 10' ash oars.

142 \$1150.00

THE SHOSHONI II

This is a big boat, 7'2" wide and 16' long with 19" tubes and it weighs 160 pounds. It is about the biggest that you are likely to need for private parties. Campways tried a boat with still larger tubes (Shoshoni III) but found the original size to be better and so dropped back in tube size.

143 \$1260.00

SHOSHONI PACKAGE

Shoshoni complete with accessories, foot pump and 2 pair of heavy-duty 10' ash oars.

146 \$1495.00

THE HAVASU II

The Havasu II is a very good boat, and this year has a couple more improvements, 7'6" wide by 17'6" long with 21" tubes and weighs 200 pounds. This just may be the best big boat design in the country. The bow and stern, rather than being made in segments, have been made with a single sweeping curve which keeps the water from having an angle to break against and therefore, makes for a boat which is not only drier but, because the stern doesn't have specific resistance points, also gets a real glide from an oarstroke.

147 \$1605.00

HAVASU PACKAGE

Havasu complete with accessories, foot pump and 2 pair 10' oars.



MARAVIA

Maravia is an innovative, state of the art, U.S. manufacturer producing professional river boats. Laboratory testing has shown their 40 oz. Polyester/PVC material to have tear and tensile strength superior to any Hypalon/Neoprene material used today. Although their boats are designed for commercial users, one model - the WILLIWAW, is small enough for personal use.

150

\$1,395.00

THE WILLIWAW

This boat is well designed for extended heavy use. It has 6 air chambers, recessed military valves, stainless steel D-rings (mounted), 2 laced-in cross thwarts, and has an 11" bow and stern lift. The dimensions are 14'3" long, 6'8" wide, with 20" tubes (16" thwarts), and weighs 117 lbs.

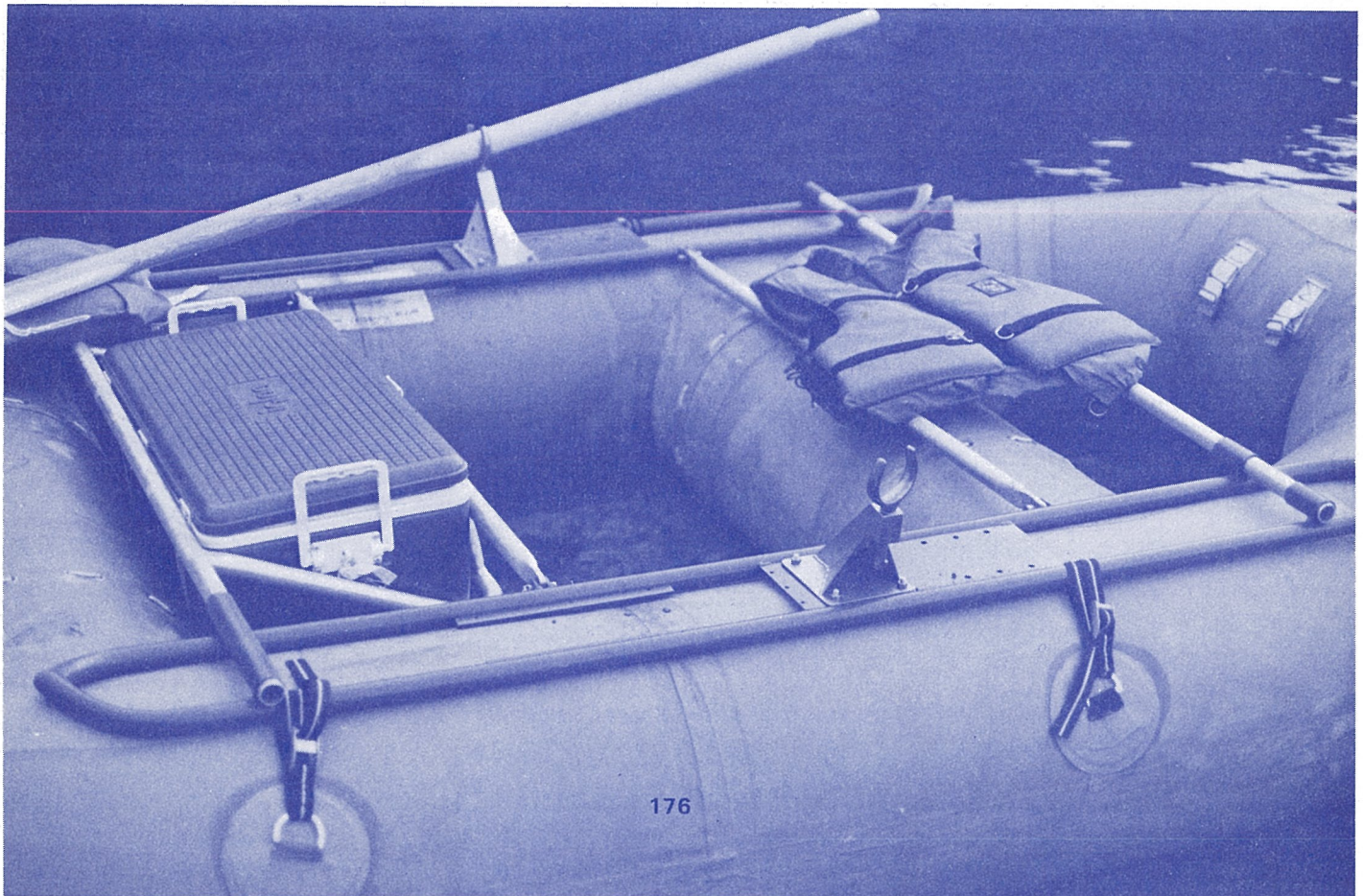


RAFT FRAMES

For several years we've felt that many homemade raft frames had better designs than those available commercially (and that's an indictment of us as much as anyone). So we finally got busy and worked out the design problems that, in the past, had hindered production of an economical frame of superior quality.

By working directly with Dick Cartwright, we have designed a frame using both steel and aluminum as standard components. Aluminum's lightness and non-corrosive qualities make it an excellent frame material. Its major disadvantage is the difficulty and expense of welding it (also its softness limits its use somewhat). Steel is stronger and less expensive, but it's heavier and it'll rust unless a special surface is used.

Our frame is quite simple, there are two pods or side rails formed from steel tubing to fit on the raft's side tubes. Adjustable oarlock stand brackets and sleeves for the cross members are welded to the pods, then after sandblasting, the entire assembly is epoxy painted with an electrostatic gun to provide a very tough and durable surface. The aluminum cross modules slide into the pod sleeves and are held in place with fastpins.



The entire frame is fastened together with just 4 pins and can be assembled/disassembled in seconds. (The frame components nest together to form a compact package for shipping by small plane if needed — flying to Alaska anyone?)

The boatman sits on the rear cross module which is covered with a foam pad. The front cross module cradles an igloo cooler (or whatever you use) and provides a foot brace for the boatman. Mounting and retaining straps for the cooler are included as part of the frame, but not the cooler. The frame shown in the picture is an early prototype and differs somewhat from the final design, however, it does give a clear idea of what the frame looks like.

If you are not sure whether our frame will fit your raft, please write and include the following dimensions: length, width, tube dia., width between tubes, length between thwarts, thwart dia., etc. We'll answer as soon as we figure it out.

175 **\$200.00**
NRS 10/14-MAN FRAMES

Our standard design allows this frame to fit both rafts with ease (or any other raft that has a narrow cockpit — min. 33"). Designed to accept a 68 quart Igloo cooler (item #617), frame measures 82" by 62" assembled and includes #235 oarlock stand.

176 **\$210.00**
NRS UNIVERSAL FRAME

This frame is designed to fit Avon Adventure, Professional, and Campways Miwok and Shoshoni. Assembled frame size is 82" long by 71" or 77" (depends on the raft). Accepts an 86 quart Igloo cooler (item #615) and includes #236 oarlock stand.

177 **\$150.00**
NRS SPRITE FRAME

This frame was designed to fit the NRS Sprite, so it differs from the standard frame in that it will not accept a cooler. Since the Sprite cross tubes are only 30" apart, including a cooler would place the boatman too far back for correct control (something to watch for in other small boat frames). The front cross module is formed to provide a bracing point at a mid-tube height. Assembled frame is 60" by 54" wide and will fit the "Yellow Duckie" rafts also. Includes #235 oarlock stand.

RAFTING ACCESSORIES

OARS

The grain and quality of these Maine Ash Oars is outstanding. For 1977, we have laid in a good supply of the longer lengths. The 10 foot oars are real monsters, very heavy-duty and suitable for commercial use. We always carry the best oars available and have been very satisfied with this company's line of quality oars. We have found the longer lengths very hard to obtain on reorders, so if you want lengths longer than 8 feet, you should get your order in as early as possible. These oars are unfinished and should have several coats of urethane, spar varnish, fiberglass resin, or waterproof paint for protection. If you find Spruce oars in your local store, check carefully because Spruce, though light and fairly strong, does have a tendency to break. Painted oars are usually poor quality (painted to hide structural defects). Basswood and cottonwood oars are okay for light work, but for serious whitewater work, ash (or a comparable hardwood) is the way to go. For anything more than a day trip you should always carry two spare oars, otherwise, you are in real trouble if you break one. Minimum order: one pair. Freight is a major problem with oars because the length forces us to ship oars 8 feet and longer by motor freight (the shorter oars can go by UPS). Therefore, orders with 8 feet or longer oars pay maximum freight to your area.

210 6' length **\$22.00 pr.**
211 6½' length **\$24.00 pr.**
212 7' length **\$27.00 pr.**
213 7½' length **\$30.00 pr.**
214 8' length **\$37.00 pr.**

215 8½' length **\$42.00 pr.**
216 9' length **\$48.00 pr.**
217 10' length **\$70.00 pr.**

We are as unhappy about the price increase on these 10' monsters as you are. We don't have a solution . . . yet!

OARLOCKS

225 **\$13.00 pr.**
SILICONE BRONZE OARLOCKS — LONG SHANK

The silicone bronze horns spring back to their original shape if forced apart. Shaft and horns are sized and polished. These cost more than the manganese bronze oarlocks, but the difference in quality makes the extra money worth spending. ⅝" dia., 3¼" long shaft is drilled for keeper, horn opening is 2" with 2⅝" ID.

226 **\$12.50 pr.**
SILICONE BRONZE OARLOCKS — SHORT SHANK

These are the same as above but with a short shank (2¼"), intended for use with the #235 oarlock stand.

228 **\$7.75 pr.**
MANGANESE BRONZE OARLOCKS

Long shank (3½") otherwise same dimensions as above #225. Until we found the silicone bronze oarlocks, these were the best horn oarlocks available. If forced open, these can be pounded back together. (For smaller oars you may want to close the throat to about

1½"). The shaft must be sandpapered or filed down to fit a ⅝" socket (polishing the inside of the horn is a good idea, too).

230 **\$24.00**
SET OF PIN AND CLIP OARLOCKS

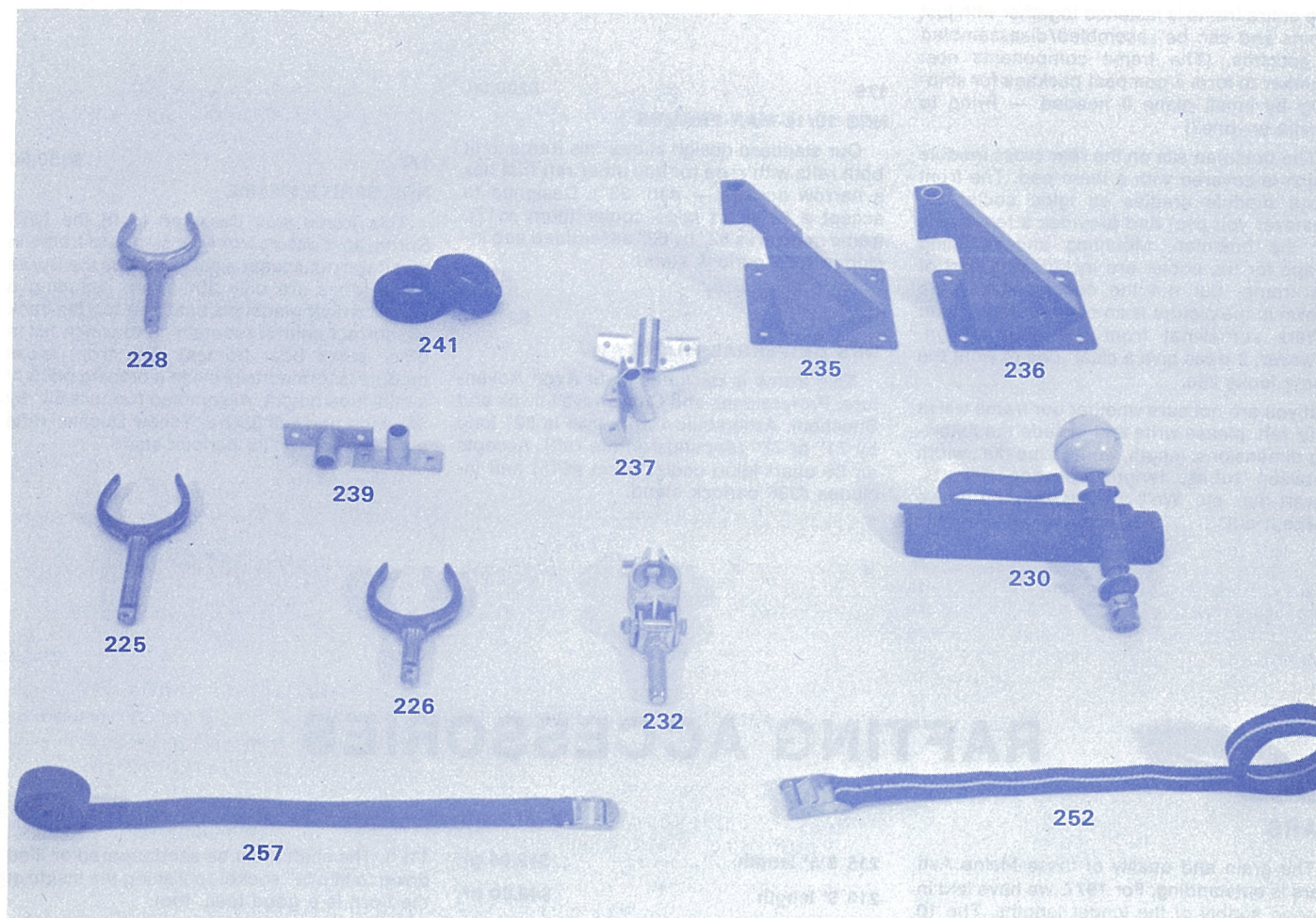
Pin and Clips are more popular in California and the Southwest than here in the Northwest where horn oarlocks predominate. The pin and clips give you more confidence and power in your strokes, but lose some of the more subtle maneuvers sometimes useful in rowing. The set contains two ⅝" dia. bolts, bushings, rubber safety balls, nuts and washers, plus the 2 clips and radiator clamps for fastening on the oar. We don't know of anybody else making these so ours must be the best on the market!

231 **\$7.50**
EXTRA CLIP WITH CLAMPS

All spare oars must have clips mounted before use, so here they are.

232 **\$5.50 pr.**
WYNN CLAMPING OARLOCK

These oarlocks clamp on the oar and slip down into any ⅝" dia. socket. They position the oar blade vertically and also hold the oar in a fixed position so it doesn't slide in or out. Spare oars must also have an oarlock on them so they can be put in place. For oars over 8' in length, you may have to substitute longer carriage bolts in the clamp. Not a bad set-up particularly for someone without a lot of rowing experience. These are really best for smaller rafts, shorter oars, and light or medium-duty use.



235 \$25.00 pr.
OARLOCK STAND

These stands are professionally designed and manufactured by Dick Cartwright. They have a 5 1/4" x 5 1/2" steel base with 4 mounting holes and a welded steel bracket that gives a 6" rise. The socket itself is 5/8" diameter, offset 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. We tried them right away, and they are the best rowing frame improvement available. They can be used with any oarlock that has a 5/8" dia. shaft.

236 \$35.00 pr.
HEAVY DUTY OARLOCK STANDS

Dick found that no matter what you design, someone can bend it up. He saw it as a challenge and produced an extra heavy duty model with a longer socket, interior bushing, extra heavy gauge base plate, etc. We recommend these stands when using 10' or longer oars, also use the longer #225 oarlocks because of the bearing length.

237 \$2.00 pr.
WYNN OARLOCK SOCKETS

Designed to be fastened to the outside of a block of wood. Has an angle plate with holes for screws or bolts. These are a good set-up but not as heavy-duty as they should be for big rafts, for use with any 5/8" dia. shaft.

239 \$2.00 pr.
OARLOCK SOCKETS

A hole must be bored to mount these. Used on many raft frames with side rails, most people just drill a hole in a solid block of oak or ironwood. These are a galvanized cast iron and you have to be careful installing them or they will crack. 5/8" shaft.

241 \$2.25 pr.
OAR STOPPERS

Rubber stoppers to keep the oar from sliding through the oarlock. Some people use a radiator hose clamp on the stopper to hold it in place, or you can glue or tape them into position. For an alternative, build your own stopper from 1" or wider webbing and saturate with fiberglass resin. (Stopper will not fit 10' oar).

243 \$.08 per ft.
BRAIDED NYLON ROPE — 1/4"

To protect the oar from the oarlock, we suggest 1/4" nylon rope (anything from 1/8" to 1/4" will do), wrapped tightly and tacked with very small brads. Put glue on the oar and then wrap the oar at the rope ends with tape. If you put in too many brads, or use larger ones, you can seriously weaken the oar. Even better, turn both ends in and glue and pull tight. Always apply urethane or other protective coating to waterproof the oars. Also, polish the inside of the oarlock to reduce wear. This

is the material we use for wrapping our oars, about 35' is needed per oar. Check around and you may be able to buy this cheaper in 50' or 100' hanks at your local discount store.

OTHER ITEMS

250 \$2.50
9' POLYPROPELENE STRAP AND BUCKLE

We decided last year to carry belts for tying down cargo and coolers, but after a lot of searching couldn't find a really good buckle. All the webbing was fine, but the buckles bent, or jammed, or were just generally poor quality. Finally we found a maker of cargo slings that had a really sturdy buckle with an instant thumb release, and a 1" strap that just wouldn't quit. (1,200 lb. test).

252 \$2.25
6' POLY STRAP AND BUCKLE
 Same item as above, only 3' shorter.

254 \$2.00
3' POLY STRAP AND BUCKLE
 We use this size to tie our frames down.

256 **\$1.50**

SPECIAL BUCKLE

We know some of you will want to make your own straps, so here is the buckle.

257 **\$1.00**

6' STRAP AND BUCKLE

Regular nickel plated buckle and 1" wide polypropylene strap. Good quality, but without the super buckle or extra heavy-duty strap.

258 **\$1.25**

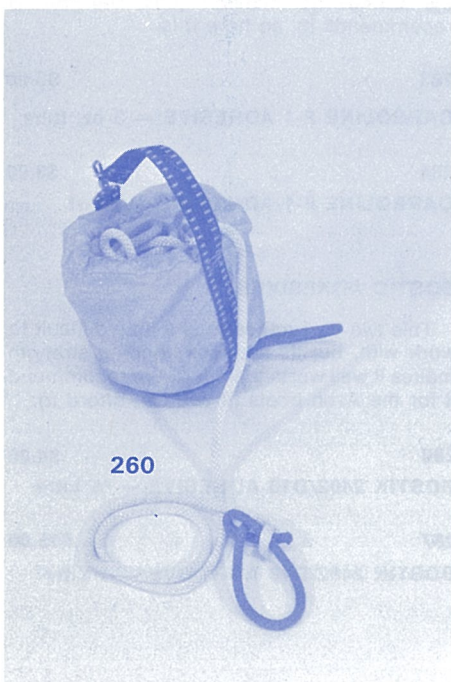
9' STRAP AND BUCKLE

Same as #257 but 3' longer.

259 **\$6.75**

ROWING POGIES

Bonnie Losick has made "Pogies" for a couple of years. They are hand protectors for kayakers and enable you to grasp the paddle and still keep your hands warm. Recently, she started making the same item for the crews practicing rowing in Spring and Fall. If you are a rafter who is "crazy as a kayaker" then these waterproof nylon hand warmers with wrist elastics are just the item you need. You can still wear gloves under them if you wish, and have no problem getting your hands free.

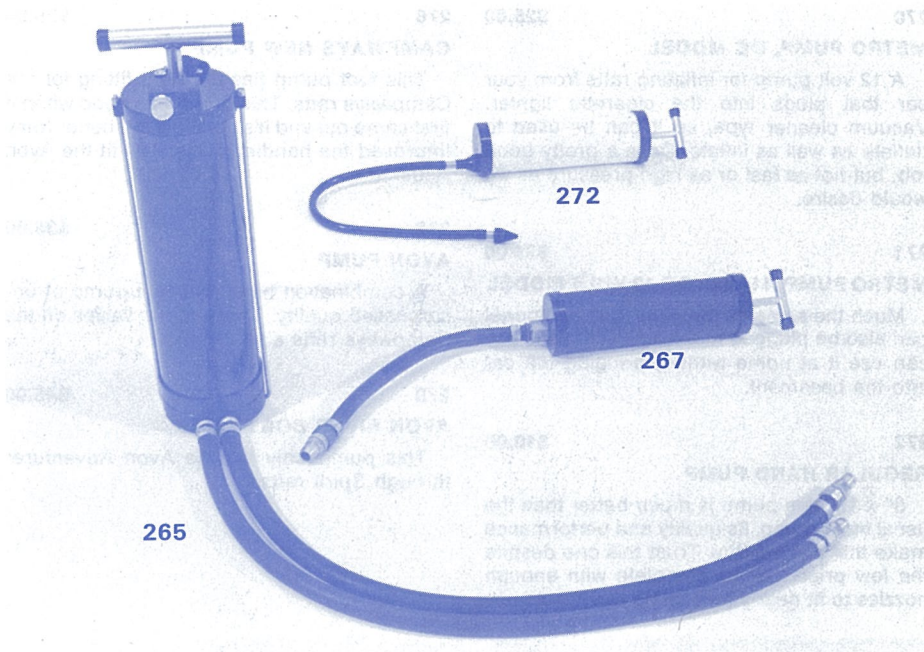


260

260 **\$18.75**

THROWING ROPE AND BAG

Ann Dwyer has really produced a quality item this time. It's 60 feet of rope in a nylon bag (it floats) that's always ready to throw. The snap-strap insures easy unhooking from the raft or canoe, while the bag keeps the rope out from under foot. If you should miss with your first throw, then just pull it back in and try again (no need to recoil the rope, water in the bag will provide enough weight to throw it the second time).



265

272

267

BLOWERS AND PUMPS

265 **\$85.00**

BIG BARREL PUMP

This is an improved version of the pump Jim Potochnik redesigned a couple of years ago and now the pump has some additional improvements. (It must have — it's more expensive). It is 5½" x 18", has two hoses and a complete set of fittings, plugs etc.; this means you can use it on any or our rafts and fill two chambers at a time.

We stock spare hoses, nozzles, plugs, and repair kits for both #265 and #267. If you have the need, please ask!

267 **\$20.00**

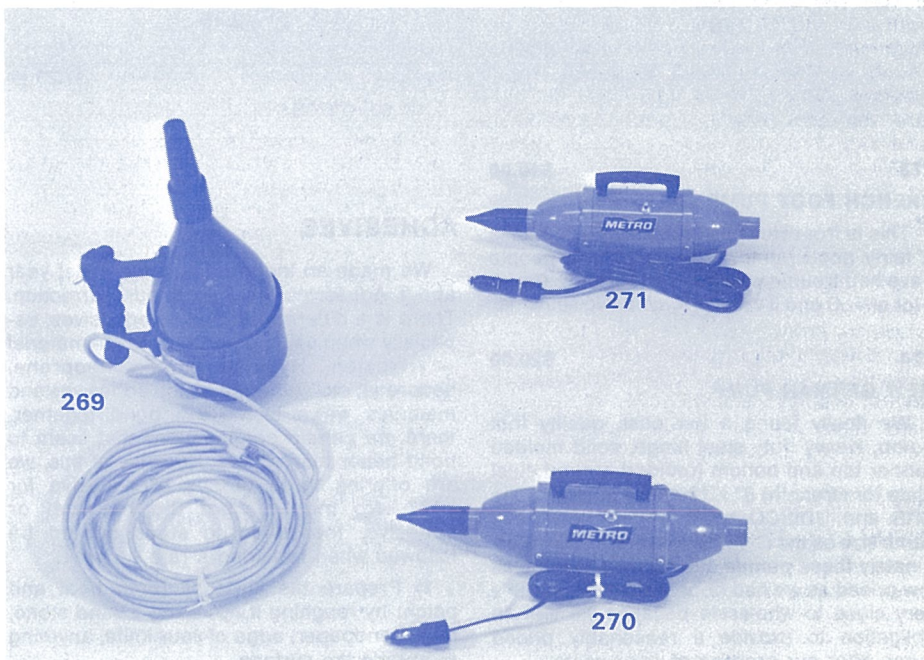
EXTRA HEAVY DUTY HAND PUMP

3" x 12" this pump is over-engineered, but that sure is a relief after all the problems we have had with low quality pumps. Use this for topping off a raft, but you'll get awfully tired if you try to blow up a big raft with this pump because of it's low volume.

269 **\$75.00**

THE BIG BLOWER

If you have access to 110 volt, 6.5 amp, AC or DC, this pump is the answer at a put in. It gives up to three pounds pressure and will inflate an Avon Spirit or Havasu III 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 second.



269

271

270

270 **\$25.00**

METRO PUMP, DC MODEL

A 12 volt pump for inflating rafts from your car that plugs into the cigarette lighter. Vacuum cleaner type, so it can be used to deflate as well as inflate. Does a pretty good job, but not as fast or as high pressure as we would desire.

271 **\$35.00**

METRO PUMP, 110 AC/DC 12 VOLT MODEL

Much the same as the #270, but this model can also be plugged into a wall socket so you can use it at home without bringing the car into the basement.

272 **\$10.00**

REGULAR HAND PUMP

3" x 12" this pump is much better than the usual hand pump. Its quality and performance make this a good buy. Trust this one despite the low price, comes complete with enough nozzles to fit nearly everything that'll hold air.

276 **\$35.00**

CAMPWAYS NEW PUMP

This foot pump has the right fitting for the Campways rafts. This pump was good when it first came out and it's getting even better (they improved the handle). It also will fit the Avon Redshank.

278 **\$35.00**

AVON PUMP

A combination hand and foot pump of unsurpassed quality. These fit the valves on the Campways rafts also.

279 **\$45.00**

AVON RIVER BOAT PUMP

This pump only fits the Avon Adventurer through Spirit rafts.

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

3) Apply the adhesive (follow the directions since each type seems to require different drying times).

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 greater the contact, the better the bond.

GACO ADHESIVES

We found that GACO will bond to neoprene better than the other adhesives. So we recommend its use with our NRS boats, the UDISCO boats, and any other neoprene raft (yellow duckies included). It is also the second choice for Campways and Avon. Best results are obtained if you allow the adhesive to dry 1 to 1½ hours before applying the patch (make sure it's beyond tacky dry).

280 **\$3.50**

GACO N-7R ADHESIVE — Pint

281 **\$5.00**

GACO N-7R ADHESIVE — Quart

CARBOLINE ADHESIVES

We found that Carboline bonds best with the Campways material (and Dan Baxter recommends it), so here it is.

283 **\$3.00**

CARBOLINE F-1 ADHESIVE — 3 oz. tube

284 **\$8.00**

CARBOLINE F-1 ADHESIVE — Quart

BOSTIC ADHESIVES

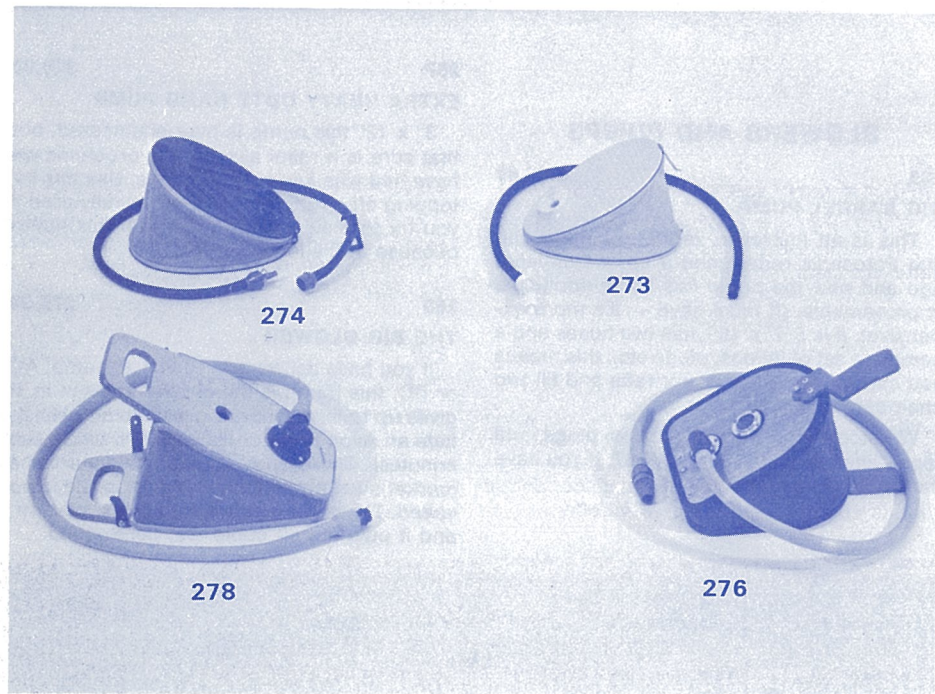
This two-part adhesive is a little difficult to work with, but its superior bonding strength makes it well worth the effort. We recommend it for the Avon boats (if you can afford it).

286 **\$4.00**

BOSTIK 2402/D10 ADHESIVE — ¼ Litre

287 **\$15.00**

BOSTIK 2402/D10 ADHESIVE — 1 Litre



273 **\$10.00**

FRENCH FOOT PUMP

This is from Hutchinson Loisiers Co. and is a fairly good pump. However, some people have had trouble with the top cracking. Give it a lot of TLC and it will last maybe two seasons.

274 **\$20.00**

NEW GERMAN PUMP

We finally found a low cost, quality foot pump. Heavy duty steel hinge, solid molded rubber top and bottom (molded around steel plate for strength) 8" x 12". This pump fits the NRS and UDISCO boats and is nearly the same size as the CW and Avon pumps. Unfortunately these pumps didn't turn out to be as low priced as we had hoped. So we'll play this very close to wholesale because we feel an obligation to provide a reasonably priced pump after our promise of prior years.

ADHESIVES

We made an incorrect statement last year about Adhesives, so here's our correction. There is a difference between adhesives, especially when using different types of material — Hypalon, Hypalon coated neoprene, neoprene, etc. Although all the adhesives and materials we've tested will bond together, there are certain combinations that seem to bond better than others. Because of this, we are offering three brands of adhesive for 1977. No matter what the material or adhesive, the following steps should be followed when repairing a raft:

1) Prepare the surfaces (both boat and patch) by roughing it up, using a sand stone, rasp, sandpaper, edge of your knife, anything to abrade the surface.

THINNER/CLEANER AND NEOPRENE PAINTS

To prepare a raft for either patching or painting, the surface should be free from all traces of oil, dirt, beer, etc. The GACO does this quite well, and at a fairly practical price. Painting a raft has been questioned somewhat lately, but we still feel it prolongs the useful material life by providing abrasion resistance and protecting from ozone and UV deterioration (there's no question that the Aluminum color reduces heat build-up).

290 **\$2.75**
GACO N450-11 THINNER/CLEANER — Pint

291 **\$3.75**
GACO N-450-11 THINNER/CLEANER — Quart

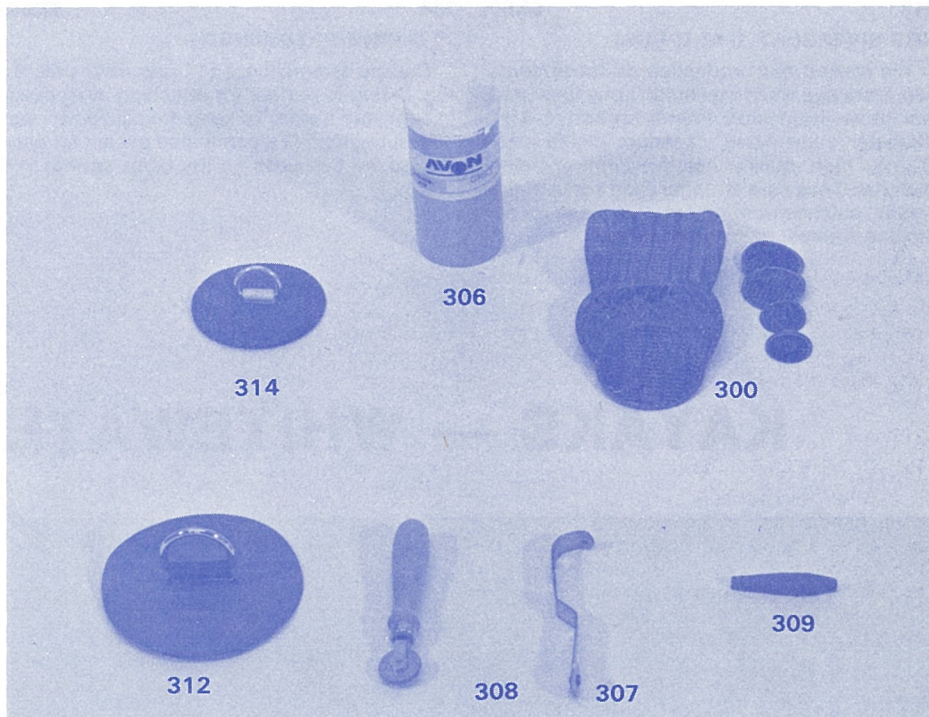
295 **\$7.50**
GACO N-700A ALUMINUM PAINT — Quart

Two quarts of paint thinned with 1 quart of thinner/cleaner will normally cover a 14-man raft.

296 **\$25.00**
GACO N-700A ALUMINUM PAINT — Gallon

297 **\$4.25**
GACO N-700A NEOPRENE PAINT — Pint

We offer this size for lettering purposes, state your color: Aluminum, Gray, or Black.



PATCHING ITEMS

300 **\$2.50**
NYLO-FLEX PATCHES

These patches are excellent for neoprene boats. The nylon reinforced patches are the best thing for a sturdy patch of a small hole. The nylon reinforcement on the larger patches keeps them from tearing. Can be used with any of the adhesives we offer.

301 **\$6.00**
AVON HYPALON FABRIC

Good material for patching most any boat, 57" wide, cost per running foot.

302 **\$2.00**
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 contains needles and thread (and conceals them within the handle for easy stowage).

303 **\$4.00**
16 OZ. NEOPRENE MATERIAL

60" wide, cost per running foot. This is the material to use for neoprene rafts.

305 **\$7.25**
CAMPWAYS MATERIAL

55" wide, cost per running foot.

306 **\$4.80**
AVON REPAIR KIT

Includes round patches, glue, abrasive, etc. Very handy and compact — good for day trip use.

307 **\$1.35**
ROLLER WITH RASP

These are used to roll a patch down to get a good bond, use the rasp to rough up surface after it's clean.

308 **\$2.50**
PROFESSIONAL ROLLER

Wooden handle gives a better feel and is not as tiring to use as the #307 roller.

309 **\$2.00**
SAND STONE

A really fine idea for roughing up material before patching. Shaped to fit your hand, coarse enough to scrape yet won't cut or tear material.

310 **\$5.00**
DUCT TAPE 2" X 60 YDS

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 water resistant, better than the cheap stuff at the discount stores.



312

\$5.00

NRS RIVERBOAT 1 3/4" D-RING

We started our production on these items two years ago when we couldn't buy them and we have improved them steadily. 6 1/2" diameter outer patch, cadmium plated steel D-ring, high quality heavy weight hypalon material. These are stronger than some of the "giant" patches from others. Use these for attaching frames, gear, or bow lines.

314

\$3.50

1" D-RING-UNFINISHED

Due to its smallness (1" ring, 4 1/2" patch), this D-ring is perfect for attaching everything except your frame. To keep the cost down, we offer it unglued (it's completed except for gluing, so we can pass on the labor saving).

316

\$10.00

NRS RIVERBOAT 3" D-RING

This is our super patch with extra webbing, 11" outer patch, etc., etc. You probably only need the #312 model, but we suppose there are some times when you might want something like this.

KAYAKS — WHITEWATER BOATS



Dick Held is a real craftsman who believes in providing a top quality boat at a reasonable price. He used to make Javelins, but sold out to one of the big conglomerates a few years ago. Prior to then, many national and world records were set with his Javelins. He now applies his superior fiberglass manufacturing knowledge to his kayaks and is improving these already fine boats every year. They have four layers of glass cloth saturated with Isotholic Resin and extra reinforcements in the bow, stern, and cockpit rim. The top mold is specially constructed so the rim can be an integral part of the deck. The boats use the excellent foot braces by Yakima Industries and knee pockets for bracing to keep you snug in a roll or in heavy water. The seats are removable and adjustable. We have looked at all the fine fiberglass boats available in the West, and these are the best buys. Other boats of this quality are much more expensive, and the other boats in this price range do not have the design or high quality of the Dick Held boats. We try to keep a large color selection in Moscow. For more information, write us for Dick's brochure, which lists his complete line. Because of the freight problems all boats must be picked up in Moscow, Idaho.

320

\$295.00

SALMON

The Salmon is very maneuverable and has the high volume so desirable for use in big water. The boat has a slight "shovel" shape in front which keeps it from diving when surfing or riding big water. This may be the best surfing kayak in the country. You can carry all your gear on a river such as the Salmon (guess where he found the name) and still not feel like you are paddling a log. This model was called the DH2 last year. Some big water boaters won't use any other model. Length: 13'2", beam: 23 3/4", weight: 30-33 lbs.

321

\$285.00

LOCHSA

A new smaller volume version of the Salmon in a fast medium/low volume boat. Has the same hull as the Salmon, but superior ability to slice through "stoppers". If you don't need the carrying capacity of the Salmon, this boat may be the best answer. Length: 13'2", beam: 23 3/4", weight: 28-31 lbs.

CANOES—GRUMMAN

Of all our products, these are probably the most well known. These canoes are light, very well designed and excellent quality. Product tests made by others and reported in **Canoe** magazine indicated Grumman first among aluminum canoes in quality, maneuverability, etc. Same freight problems as kayaks so you must pick these up in Moscow, Idaho.

325

\$359.00

GRUMMAN'S 17' WHITEWATER CANOE

This model is made of .050 6061 aluminum alloy, has a beam of 36" and a weight of 81 pounds. Seven ribs provide extra strength and the shallow shoe heel gives excellent maneuverability.

326

\$365.00

GRUMMAN SQUARE STERN 17' CANOE

This model is suitable for cruising with or without a small motor. Weighs 85# and has good cruising characteristics. Prefer this model only if you expect to use a motor more often than a paddle.

INFLATABLES

SEA EAGLE EXPLORERS

At last, an inflatable canoe/kayak we can really recommend! Canoe/Kayak?? They're open like a canoe but should be paddled like a kayak with a double bladed paddle. They handle more like a kayak than a canoe, but can anyone out there do an Eskimo roll in one? Leisure Imports has developed a new, stonger, supported PVC material for use in the Explorer line of boats. Relatively high strength and low expansion factors are ob-

tained by using a polyester scrim between two vinyl layers. The seams are now overlapped $\frac{3}{4}$ " which promises exceptionally dependable service. In the past, holes could always be patched, but seam leaks and splits rendered many boats useless. This new material should mean the end to seam problems.

We really like this design and for years have thought they were more fun than any other boat for playing in rivers without needing the

skill level demanded for a kayak. We think the ribbed inflatable floor is the key to their success. We are pleased to be able to offer this design and will carry them in 2 models. (The third model, #380 is too big and clumsy for whitewater.)

330

\$215.00

SEA EAGLE EXPLORER 340

If you usually have two people in a boat or one very big person and all the gear for a week, then the 340 is the boat for you. Length: 11', width: 2'9", weight: 34#. Three main air compartments. (Sides and inflated floor).

331

\$200.00

SEA EAGLE EXPLORER 300

This is my idea of a boat for running rapids and even playing in big waves! More maneuverable and more fun for one person than the 340 above. Take one along on your next rafting trip and find out how much more thrilling the ride can be. 9'6" long, 2'9" wide, weight: 27#, three main air compartments.

TAHITIS

332

\$100.00

TAHITI K-77

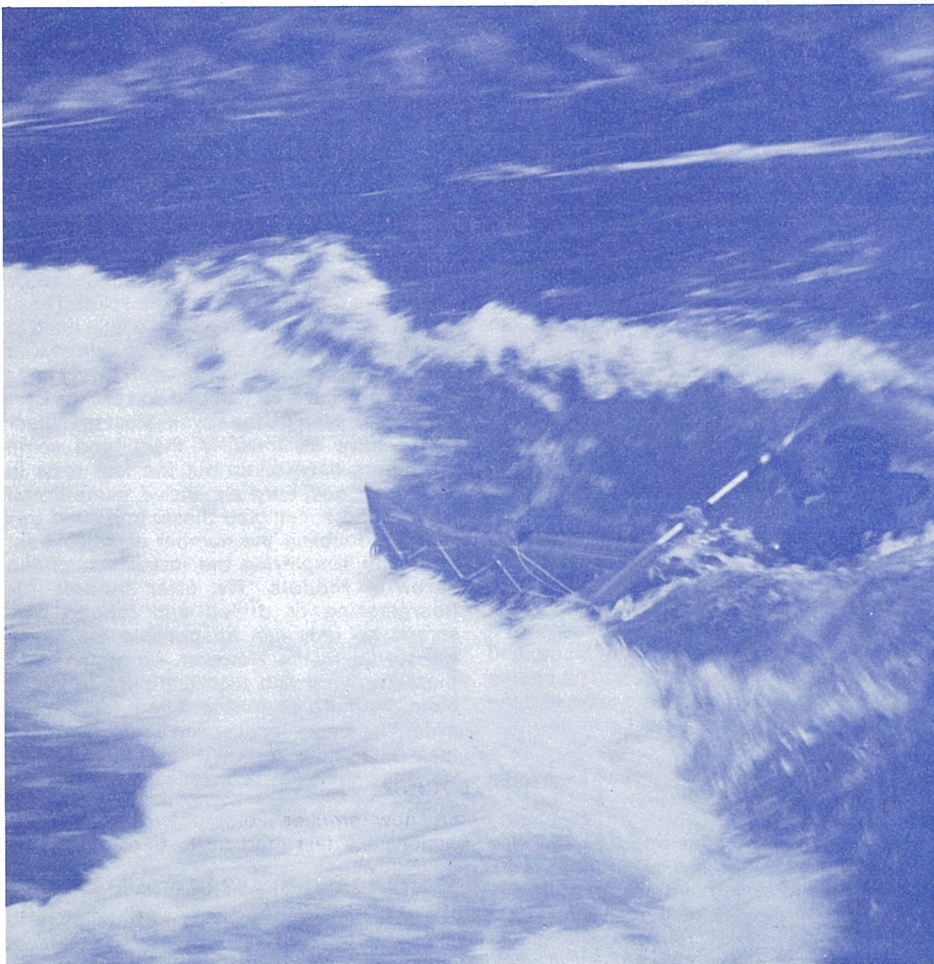
Although this boat is made of unsupported PVC material, Sevylor has assured us they have the seam problem corrected. These boats are covered by a limited use (no rental or professional use) 12 month warranty. Since the design is nearly the same as the Sea Eagle Explorer, yet the price is half as much, these boats could turn out to be an exceptional buy. Beware of much cheaper boats, they are usually very poor quality and don't last. Dimensions: 11' long, 2'10" wide, weight 23#. 3 air chambers.

333

\$2.50

PVC REPAIR KIT

We tried a number of kits this year and this one really works. Contains 1 tube of adhesive and enough material (both unsupported and supported PVC) to patch just about any hole you could tear.



KAYAK AND CANOE ACCESSORIES

KAYAK PADDLES

335 **\$60.00**

ILIAD PADDLE: 82", 84", 86"

The Iliad is not only the best and most durable paddle we know of, but has been improved even more by covering the shaft with neoprene. The neoprene makes a really great grip, and it doesn't take away the heat from your hands in the cold weather; however, it can give blisters to the unwary. Truly, this is the best paddle we have ever used and its widespread popularity is deserved. Iliad gives a price break for ordering early and in large quantities, and we have passed the savings on. For most people, 82" or 84" is the correct length. Yes, Iliad has a new cheaper model, but they don't seem to hold up nearly as well.

336 **\$22.00**

NRS KAYAK PADDLE - 84"

These are our own design, and after recommending them last year, we found some drawbacks. Now we use a heat shrink vinyl grip and integral caps to stop leakage. The vinyl gives an excellent grip and keeps your hands warm. We use Cannon Magnum blades and an Alcoa 6061 T6 aluminum shaft. Shipped unassembled.

337 **\$25.00**

NRS KAYAK PADDLE - 108"

Same as #336, but much longer. Bill Rollins, who persuaded us to make these double bladed canoe paddles, says they are far superior to single bladed paddles for canoeing and solo raft use. A recent Wilderness Camping article explains the technique, but the advantages are obvious the first time you try them. Shipped unassembled.

338 **\$27.00**

CARLISLE AUSABLE BREAKDOWN PADDLE

This heavy duty, 7' kayak paddle has a 6061 T6 vinyl covered shaft, and a very secure snap-lock joint. Since it's stronger, we prefer it to the #339 and #340, but it is heavier, too!

339 **\$20.00**

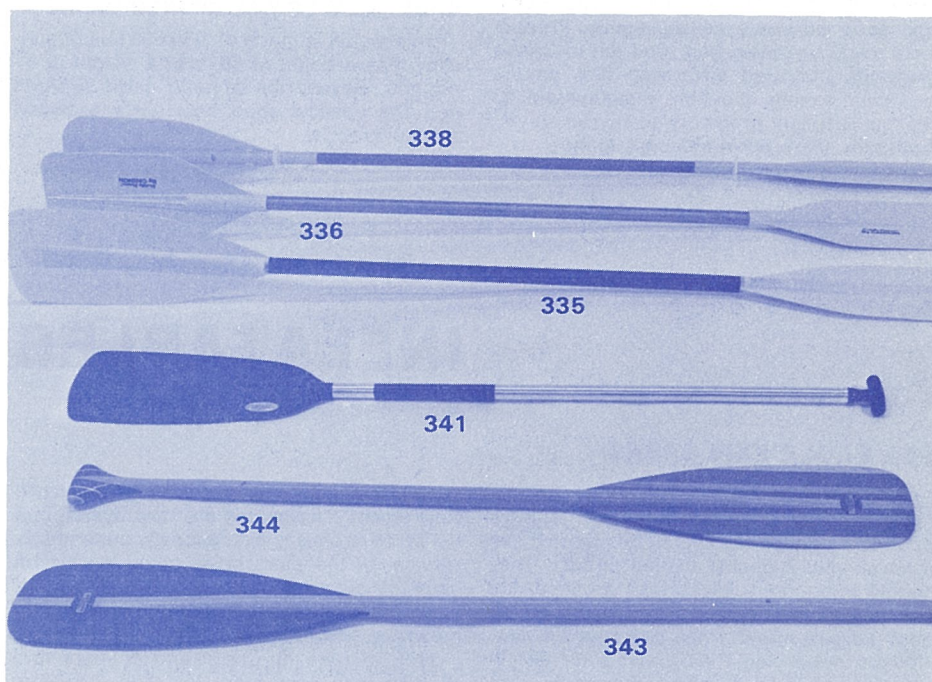
BREAKDOWN KAYAK PADDLE — 7'

An excellent light weight spare paddle. The snap-lock joint in the middle allows you to break it down and slide it under your float bags. However, for heavy use we prefer the #338 paddle because the shaft is stronger and the snap-lock joint will not develop play after use.

340 **\$20.00**

BREAKDOWN KAYAK PADDLE — 8'

Same as above but longer for use with the wide inflatable canoe/kayaks.



CANOE PADDLES

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 or forehead stuff. Choose a shorter, more comfortable length. Rafter will need the slightly longer lengths, particularly in a raft with large tubes.

341 **\$6.95**

MOHAWK PADDLE: 57", 60", 63"

After we sent for one of these paddles, I spent a Thursday evening trying it out in the bathtub! They have produced an amazing paddle for the price. It's smaller, 1 1/4" diameter, but tougher aluminum shaft has a heat shrink polyethelene shaft grip, and a molded plastic top T grip which is pretty comfortable and gives good control. The blade is made of a tough plastic with a metal insert. It can take a 90 degree bend in the blade, and seemingly it suffers no ill effects. The paddle and T grip are forced inside the tube, and the result is a waterproof (it floats) paddle.

343 **\$14.00**

SAWYER S-8

If you love the feel, flex and look of a fine wood paddle, Sawyer has a model for you. These are paddles you can use for a full day without feeling the strain. T grip with quality shaft, 8" x 23" blade reinforced with two fiberglass layers. Sizes: 56", 60", 63".

344 **\$17.00**

SAWYER C-8

A truly beautiful paddle with laminated grip and blade. Fiberglass reinforced blades should keep these looking new for a long time. Sizes: 56", 60", 63".

YAKIMA FOOT BRACES

If you are making your own kayak, or have bought one without braces, these individually adjustable foot rests are just the ticket. These are the new model with a simple little latch to adjust them easily. You can even adjust with your foot while sitting in the kayak! They have a neoprene covered foot pad and are the best we've ever seen in any kayak. Most manufacturers have switched to them, and some customers have taken out the foot rests in their new and very expensive name-brand kayaks and substituted these. Improved this year by doubling the number of adjustment slots and simplifying the installation of the screw-in models. We offer models for fiberglassing or drilled and tapped with screws so they can be put into the kayak without fiberglass. However, we prefer to do the extra work and use fiberglass to install them. Be extra careful not to get resin in the slide! The longer lengths and adjustments are ideal if you have several different size people using the same kayak, such as for rental use.

346 **\$9.50**

9" STANDARD GLASS-IN MODEL

These have holes bored in base plate to help the fiberglass bond. 6 1/4" adjustment slide.

347 **\$10.00**

10 5/8" SCREW-IN MODEL, 8" SLIDE

2 screws and the foot brace is in the boat.

348 **\$11.00**

12" GLASS-IN MODEL, 9 3/8" SLIDE.

Longer version of the #346.

349 **\$11.50**

13 5/8" SCREW-IN MODEL, 11" SLIDE

Longer version of the #347.

FLOATATION BAGS

350 **\$28.00**

VOYAGEUR STORAGE/FLOATATION KAYAK BAGS

We have switched to Voyageur after seeing it in use in some boats and are impressed with these blue laminated 20 mil. vinyl bags. They have a positive closure that resists the pressure of big water on the deck. However, they are a little more difficult to get your gear in and out of than the A.B. Sea Sto-Float bag below. Includes repair kit and patch material.

351 **\$27.50**

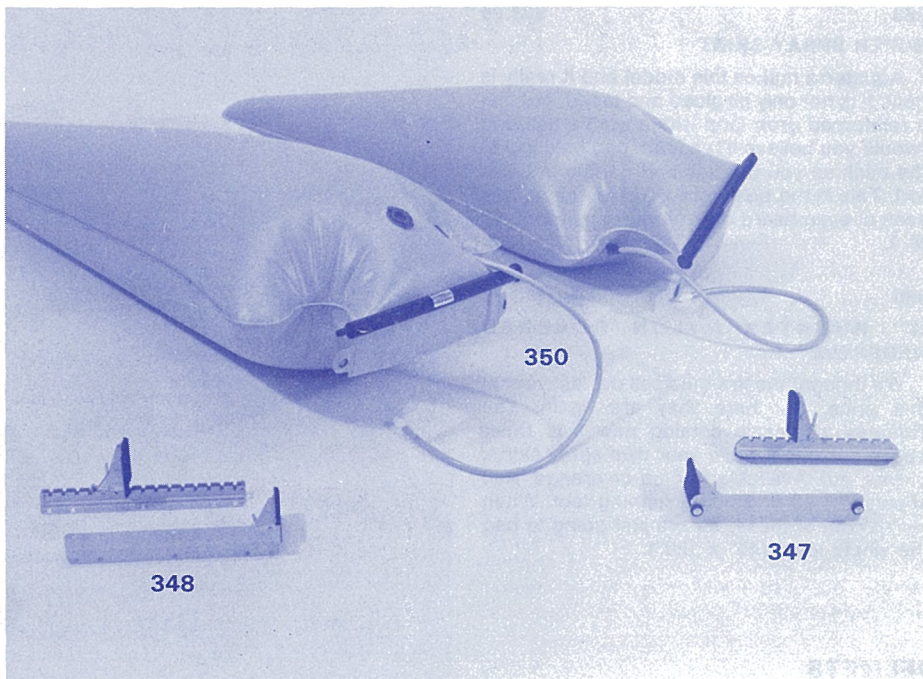
A.B. SEA STO-FLOAT KAYAK BAGS

These bags are easy to put your gear into and get it out, too. 20 mil. vinyl with plastic pipe clamp closures. When really heavy water tries to flatten your deck, the closures can pop with disastrous results. Use these if you stay out of that crazy stuff, or buy the heavy water locks below.

352 **\$7.00**

HEAVY WATER LOCKS FOR STO-FLOATS

Cash in advance on these please! A new item that we haven't tried out yet (would you kayak in Northern Idaho in December?).



353 **\$15.00**

KAYAK FLOATATION BAGS

Why risk it? These are a great help in keeping your kayak healthy. 20 mil. vinyl, high quality seams, inflation tube and large deflation valve.

354 **\$21.00**

KAYAK SPLIT FLOATATION BAGS

If you have a Hollowform boat with foam pillars or for any other reason, these 20 mil. vinyl bags are what you need.

356 **\$16.00**

C-1 FLOAT BAGS

20 mil. vinyl bags to keep your boat healthy if you should decide to leave it suddenly.

357 **\$22.00**

C-2 FLOAT BAGS

Same 20 mil. vinyl bags as above except 3 bags: bow, stern and a center bag.

358 **\$1.25**

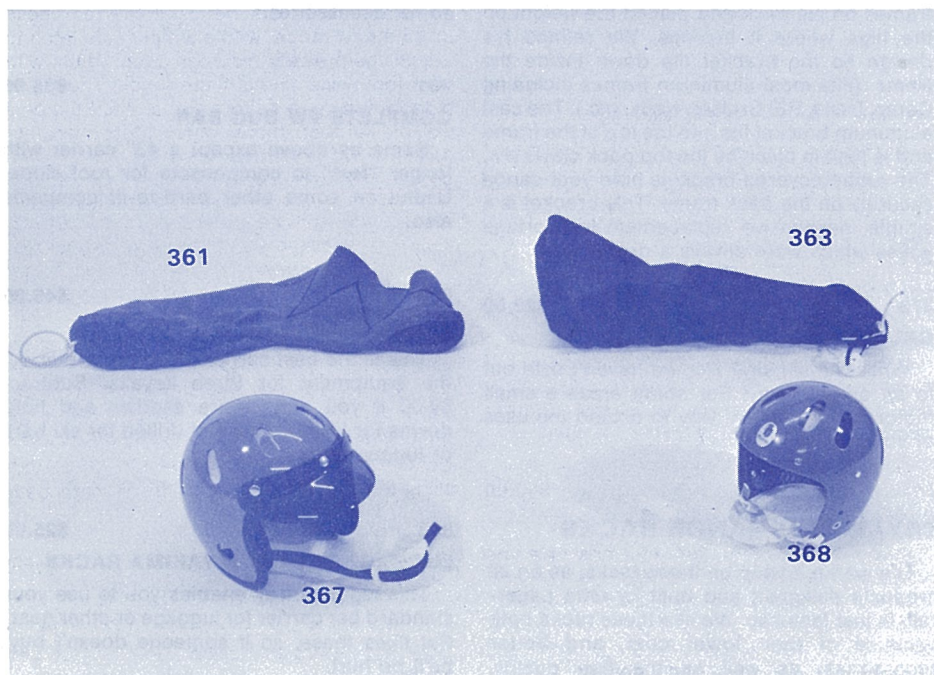
VOYAGEUR VINYL REPAIR KIT

This kit isn't as extensive as some. Basically just a tube of vinyl cement and some scrap vinyl in a foam pouch (handy) but it's a lot less expensive than the bigger ones and adequate for any repair job we ever had. Voyageur light blue 20 mil. patches.

359 **\$12.00**

SEDA FIBERGLASS REPAIR KIT

Most other kits are just resin, hardener and cloth, but Seda took the time and effort to put in all those little extra items like brushes and stirrers, that really help simplify a repair job especially on a trip. Contains 1 pint resin, hardener, cloth, etc., etc., etc.



SPRAY SKIRTS

361 **\$18.00**

NYLON COVERED NEOPRENE KAYAK SPRAY SKIRT

This is a good but not outstanding spray skirt. It fits most kayaks very well. Run a rope around the cockpit rim groove; if it measures 71" or less, use this model. Sewn and glued seams. They last. Waist sizes: S, M, L.

362 **\$19.00**

NEOPRENE TOURING KAYAK SPRAY SKIRT

Same as above but for 72" and larger diameter cockpits.

363 \$24.00

SUPER SPRAY SKIRT

Aquaterra makes this model and it really is neat. It is not only all glued and taped, but has a reinforced grab loop with a whiffle ball and (would you believe it?) a foam pad built inside the back so you can roll and paddle in comfort. This is the best spray skirt we have ever seen or even heard of. Well worth the price. S, M, L.

365 \$43.00

1/8" RUBATEX NYLON COVERED NEOPRENE

We thought these would sell out last year at this price, but here they are again. The Rubatex wholesale catalog now lists these above our price! Build your own spray skirts, gloves, etc. Available in blue or orange. Half sheets \$24.00 or \$5.00 a running foot. When we run out of these, we are just going to bag the whole idea! (40" x 120").

HELMETS

367 \$32.00

NONA HELMET

As you may recall, we weren't very satisfied with the helmets available last year. Nona put a lot of time and effort into the problem and has produced a superior helmet. They started with a good shell, but at first the suspension system was difficult to fit. They kept experimenting with new ideas (borrowing a few) and finally came up with a superior product. High impact orange shell, styrofoam lined with extra velcro-backed foam sizing pads. Complete with chin strap and detachable visor. Sizes: S/M=7 and smaller. L/XL=7 1/2 and up.

368 \$23.00

ROMER HELMET

Here is a suspension helmet designed for kayaking, big drain holes, good side protection, high impact plastic shell. Improved this year with styrofoam liner, but still not the quality of the Nona Helmet above.

MISCELLANEOUS

370 \$9.50

BONNIE HOT POGIES — KAYAK

These neat little items attach to your paddle shaft and you then put your hands through an opening to grasp the paddle. Coated nylon, elastic wrist bands, velcro adjustments to fit paddle shaft.

371 \$9.50

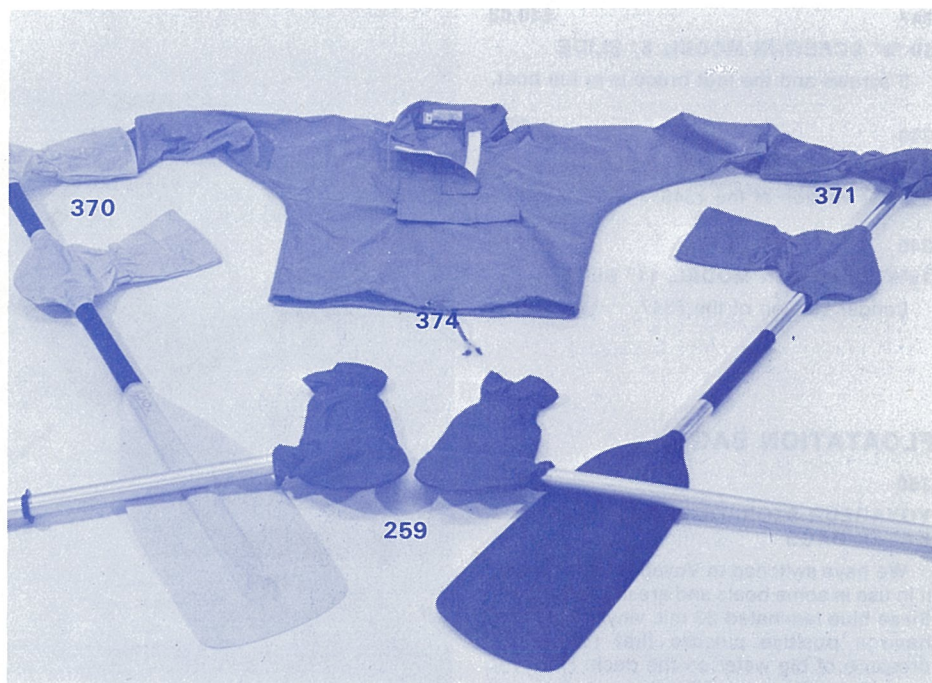
BONNIE HOT POGIES — CANOE

Same as above, except one Pogie has single hole to fit over end of canoe paddle.

372 \$14.00

UNIVERSAL BONNIE HOT POGIES

Two kayak and one canoe Pogie for real fanatics



374 \$25.00

A. B. SEA PADDLING JACKET

I've been wearing this jacket ever since a boatman borrowed mine to run the Salmon last March. (You know who you are so send it back!!) Anyway, though this jacket is a simple design, it is really warm, dry and comfortable. Blue coated nylon with neoprene/nylon - 2 cuffs, velcro neck closure and collar and waist drawstrings. Kangaroo pouch with velcro closure. Sizes: S, M, L, XL.

377 \$11.00

CANOE CARRIER

Although pack design has improved tremendously over the past few years, canoes are still carried inefficiently and painfully on the shoulders. Chris Tapfer mounted little frames on his pack and placed the weight on the hips where it belongs. We refined his design so the bracket fits down inside the frame. (Fits most aluminum frames including Camp Trails, REI Cruiser, Kelty, etc.). The cast aluminum bracket fits into the top of the frame and is held in place by the top pack clevis pin. The rubbercovered brackets hold your canoe securely on the pack frame. This bracket is a simple inexpensive replacement for portage yokes which were always a drag to use.

378 \$22.00

GRUMMAN MOTOR MOUNT

What can we say? No, we haven't sold out to an oil company! For some areas a small motor is an excellent way to extend the uses of your canoe.

KAYAK AND CANOE RACKS

The workmanship on these racks, as on all products designed and built by Otto Lagerwall, is just fantastic. We like these racks both because of their lower cost, and better accessories, as well as the fine quality.

Yakima racks have a 1 1/2" anodized aluminum bar with two quality "feet" on each side padded by 1/4" neoprene. The saddles for the boats are also padded with nylon-lined neoprene. You can also order a cargo tray to go with the basic rack, and also special accessories to convert the rack for ski use. We goofed on our prices last year, so this years large price increases are our fault, not Otto's.

380 \$35.00

COMPLETE STANDARD 54" BAR CARRIER

Includes bar with attachments, saddles for two kayaks, rubber belts with plastic covered hooks for securing kayak to rack, bow and stern hooks, bumper clips, and nylon cord. This is a complete set-up for two kayaks. Drill-ed for accessories.

381 \$35.00

COMPLETE VW BUG BAR

Same as above except a 43" carrier with longer "feet" to compensate for roof slope. Useful on some other hard-to-fit compacts also.

382 \$45.00

COMPLETE 6' BAR CARRIER.

This is the best carrier for a van or bus. All the equipment for three kayaks. Subtract \$8.00 if you only desire saddles and hold downs for two kayaks. Not drilled for ski bars or luggage tray.

383 \$25.00

LUGGAGE TRAY FOR YAKIMA RACKS

This luggage tray enables you to use your standard bar carrier for luggage or other gear. Pat likes these, so if someone doesn't buy, he'll be hurt.

384 **\$6.00**

ONE SET NEOPRENE-LINED KAYAK SADDLES

Four Yakima Industries saddles to carry one kayak. You may have to shim them to fit some bars because the fittings are for a 1½" bar.

385 **\$1.00**

GUTTERLESS ADAPTERS

Set of Yakima Industries adapters for cars without rain gutters. Must drill a couple holes for these adapters.

386 **\$1.00**

YAKIMA SKI BARS

Ski Bars (pair) for one pair of skis. An easy way to convert your standard bar carrier for Winter use.

387 **\$4.00/boat**

KAYAK HOLD DOWN PACKAGE

Rubber belts with plastisol covered hooks, bumper clips, rope tighteners, braided nylon rope, and small bow and stern hooks. All the items necessary to fasten your kayak securely to your bumpers and rack. This package lets you secure a kayak on your rack in seconds without having to tie a single knot.

388 **\$4.50**

CANOE HOLD DOWN PACKAGE

Ditto for canoes.

389 **\$2.00 pr.**

KAYAK RUBBER BELTS WITH PLASTISOL COVERED HOOKS

Stronger than bungee cord and better hooks, too.

390 **2.50 pr.**

CANOE RUBBER BELTS

Ditto for canoes.

392 **\$.25 ft.**

MANTA LINE RUBBER ROPE — 7/16" DIAMETER

This is heavy-duty line. Use it with hooks below for securing canoes, etc. Sorry about the price increase, but we were inadvertently selling it below cost. Buy 11' and 4 hooks for front and back hold downs.

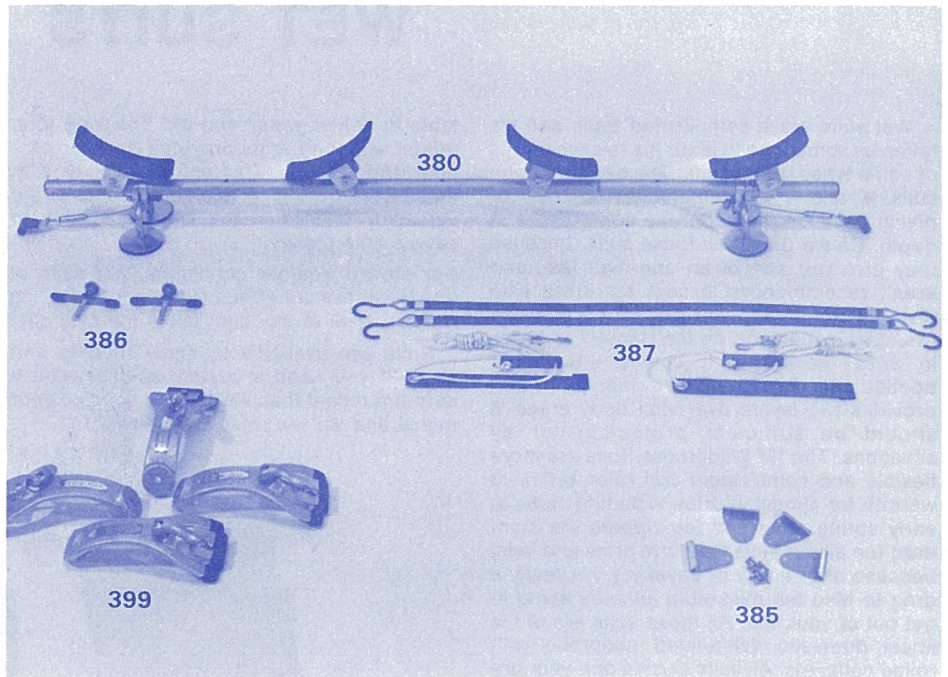
393 **\$.25 ea.**

STEEL HOOKS FOR MANTA LINE RUBBER ROPE

394 **\$27.00**

RANGER CANOE RACK 66" WITH BOAT CLAMPS

We have been told by several people that these racks are of good quality and less expensive than some others. Use on cars with rain gutters to carry canoes safely. The boat clamps go over the gunwale from the inside and are tightened to the rack. Use with hold down package #388 above.



398 **\$15.00**
GUTTERLESS FOAM BLOCK CANOE CARRIER

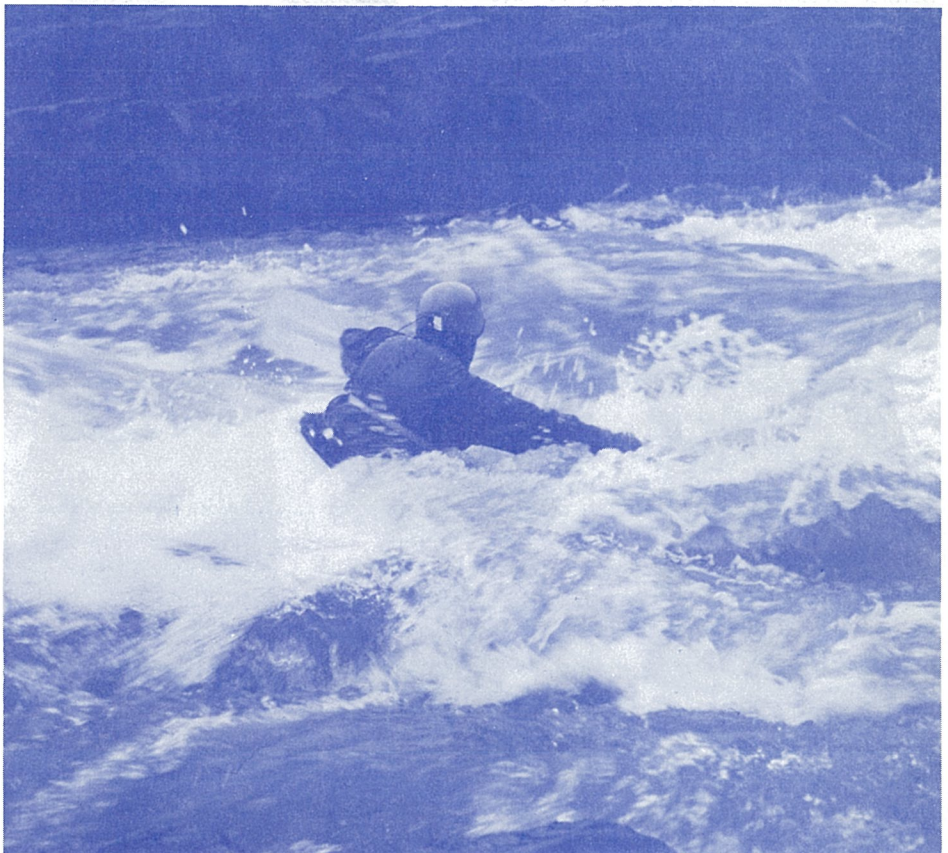
This carrier has been very carefully designed and beautifully made. Kit contains 4 foam blocks, fore and aft tie downs which use commercial-type hardware and webbing, two straps to go around canoe, etc. Putting a canoe right down on the car top has several advantages and this seems to be about the best of the kits available. Be careful you get the fore and aft ties on correctly. (The direc-

tions are slightly misleading, the handle should point up). Also the buckles on the wrap-around straps do not hold well and you should knot the free end of the webbing against the buckle as a safety precaution.

399 **\$17.50**

QUIK-N-EASY BRACKETS

These are those neat brackets that allow you to make your own rack (from 2x4's or plywood). Includes four brackets, so all you need is the wood.



WET SUITS

Wet suits are a complicated topic and it's taken us some time to learn the relative merits of some types of wet suits. The heavier gauge suits, $\frac{3}{16}$ " and $\frac{1}{4}$ " are sometimes necessary for diving because the neoprene compresses at depth. So we don't sell these suits, because they give you sort of an ape-man feel, and aren't recommended except for those who dive. If you get cold easily or go out in really traumatic conditions, try the Haney Pro series in $\frac{3}{16}$ " neoprene. It comes with hood, booties, etc. Because the farmer john pant provides two layers over vital body areas, it should be sufficient protection for all situations. The $\frac{1}{8}$ " Wilderness Suits are more flexible and comfortable and offer sufficient warmth for almost all trips including some in early spring. Arm and leg zippers are standard (on all our suits that have arms and legs) because after a day of kayaking, it's really a drag to take ten miserable minutes trying to get out of your suit. All these suits are of the finest domestic nylon-lined neoprene with rolled cuffs, etc. All suits carry a one-year unconditional guarantee against defects in material and workmanship.

Full suits offer the most protection, and are also the most versatile because you can wear the top or bottom alone. I wear a full suit for really cold weather, and either the top or the bottom alone the rest of the time. If the weather is nice, then the farmer john pant gives good protection without roasting. That way, you also have a top to loan out if someone doesn't have their own suit. The short john provides emergency protection for rafters, etc., and is a good kayaking suit for warmer weather. Because it doesn't have arms, it provides a lot of freedom and you don't have to worry about smelling like a goat at the end of the day. The model with short arms and legs gives a little more warmth than the short john and is therefore more comfor-

table in colder water and air. The long john model with long arms provides good protection, and warmth. This suit is popular with those who are willing to give up some of the versatility offered in the two-piece suits to save a little money.

For severe weather conditions, wet suits of any thickness are often cold, but just wearing a nylon shell of any kind takes the chill off.

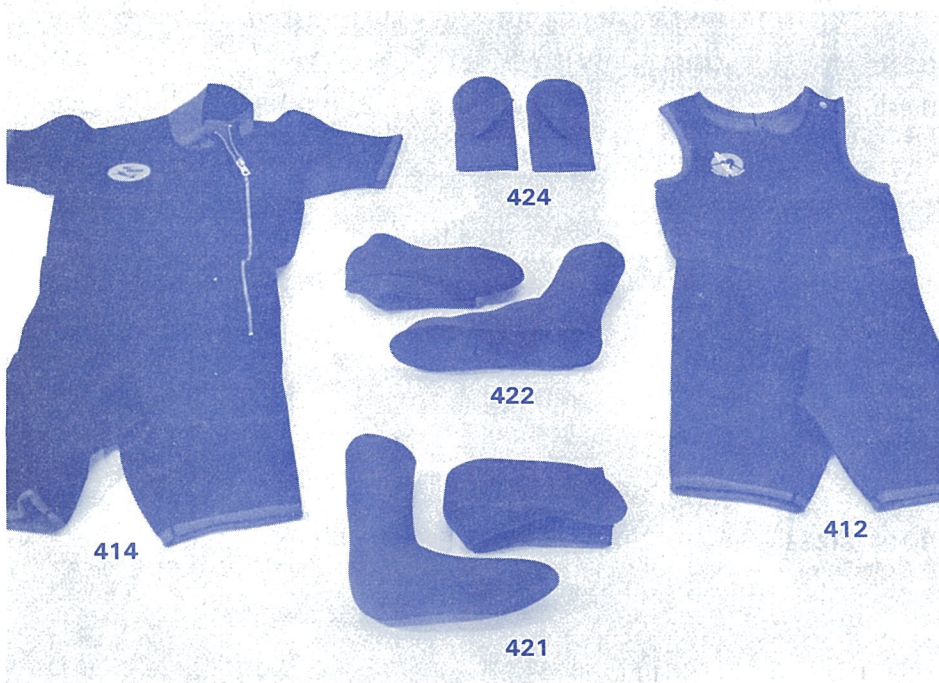
Suits are available in many models and sizes. If you need a custom suit, or want a different model than we list, just send us your needs and we will reply right away.

412 **SHORT JOHN** **\$32.50**

$\frac{1}{8}$ " neoprene, velcro shoulder entry with snap. Resembles a one-piece (and modest) bathing suit. Short legs and no arms. Is sometimes worn under other clothing by rafters for emergency protection.

414 **T-SHORTIE** **\$44.00**

A partial suit with short arms and legs, zipper entry, etc. $\frac{1}{8}$ ". This is a popular model for moderately cool water and weather.



415 **FARMER JOHN** **\$48.00**

$\frac{1}{8}$ " bib type with leg zippers. An ideal rafters suit. Keeps your legs and body warm though wet, yet doesn't bind the upper body and arms.

416 **LONG JOHN** **\$65.00**

$\frac{1}{8}$ " Long John with sleeves, 5 zippers, nylon-lined.

Shaped like the old one-piece Union suit, except much better looking. These suits have rolled cuffs, knee pads, etc., and are a good three-season suit.

425 **WETSUIT NEOPRENE GLUE, 4 OZ., BRUSH TOP CAN** **\$1.50**

Really a black liquid neoprene in some sort of solvent base. Use for making your own spray skirts, fixing wet suits, spray skirts, etc. Also useful for repairing rafts.

419 \$90.00

WILDERNESS SUIT

When you go to a complete suit, these 1/8" suits offer more freedom of movement than the 3/16" suits. They have the standard rolled cuffs and knee pads, but the cut is fuller and the soft feel is something else. Also, the 6 suit sizes offer a much better fit than the normal 4 (S, M, L, XL) sizes — almost a custom suit without the extra cost.

This suit has farmer john pants, and an extra long (6") jacket. The extra long jacket provides about the same protection and yet more freedom than a beaver tail type jacket. These are made of Rubatex Nitrogen Neoprene in 1/8" nylon-1.

420 \$110.00

HANEY PRO SUIT

These 3/16" suits are top quality, and they come with soft-soled boots, deluxe cold-water hood, arm and leg zippers, beaver tail with twist locks, rolled cuffs, knee pads, etc. The arm and leg zippers are standard, as well as farmer john pants. As mentioned earlier, we think most people will be happier with the 1/8" suit, but if you dive, kayak in super cold weather and water or just get cold easily, this may be the suit for you.

421 \$10.00

SURF BOOTS

Soft-sole without zippers. S, M, L, XL. The best way to keep your feet warm and also protect your feet from stickers and sharp rocks is to wear a pair of soft-sole boots and then wear a pair of tennis shoes a couple of sizes too large over them. Make sure the shoes have a rubber sole instead of vinyl. Some people glue indoor-outdoor carpeting on the soles of the tennis shoes to give them better traction on rocks.

422 \$13.00

HARD-SOLED BOOTS

The soles are thicker than they were in the past so there is less chance of rock bruises. Keep your feet warm with these. We can't understand why outfitters don't either rent or loan these to their passengers for cold weather or water. Sizes: XS, S, M, L, XL.

423 \$6.50

MILITARY SURPLUS BOOTS

Smalls only—fits women's sizes 7 and under. We bid on 102 pair of brand new divers boots, a good deal while they last. Soft soles available for \$4.00.

424 \$7.50

KAYAKING MITS

S, M, L, XL. These are more comfortable than the usual mits, and they seem to hold up pretty well, too. Sizes run about 1/2 size larger than most gloves so if in doubt, order next size smaller.



WILDERNESS SUITS SIZING CHART

MEN	CHEST	WAIST	HIPS	INSEAM	HEIGHT	WEIGHT
Small	36-39	29-32	31-34	26-29	5' 6"-5' 8"	135-150
S-Medium	38-40	30-33	32-35	27-29	5' 7"-5' 10"	140-160
Medium	39-41	31-34	33-36	27-30	5' 8"-5' 11"	155-170
M-Large	39-43	32-35	34-38	28-31	5' 9"-6'	160-175
Large	41-44	33-36	36-40	30-33	5' 11"-6' 2"	170-190
X-Large	44-46	35-39	40-44	32-34	6' 2"-6' 4"	195-220

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 upon request **

NORTHWEST RIVER SUPPLIES SUITS SIZING CHART

MEN	CHEST	WAIST	HIPS	INSEAM	HEIGHT	WEIGHT
Small	33-36	28-31	34-36	25-27	5' 4"-5' 6"	120-140
Medium	34-38	30-33	36-38	26-28	5' 7"-5' 10"	140-160
Large	36-41	32-36	38-41	27-30	5' 11"-6' 1"	160-190
X-Large	37-43	33-38	40-43	29-32	6' 1"-6' 3"	190-220

WOMEN	BUST	WAIST	HIPS	HEIGHT	WEIGHT
Small	32	24	34	5' 3"-5' 5"	110-120
Medium	33½	26	36	5' 5"-5' 7"	120-135
Large	35	28	38	5' 7"-5' 9"	135-150
X-Large	37	30	40	5' 9"-6' 0"	150-165

** Custom suit information upon request **

BOOT SIZES

Soft Sole

Boot Size

S

M

L

XL

Fits Shoe Size

5 to 6

7 to 9

10 to 11

12 to 14

Hard Sole

Boot Size

XS

S

M

L

XL

Fits Shoe Size

5 to 6

7 to 8

9 to 10

11 to 12

13 to 14

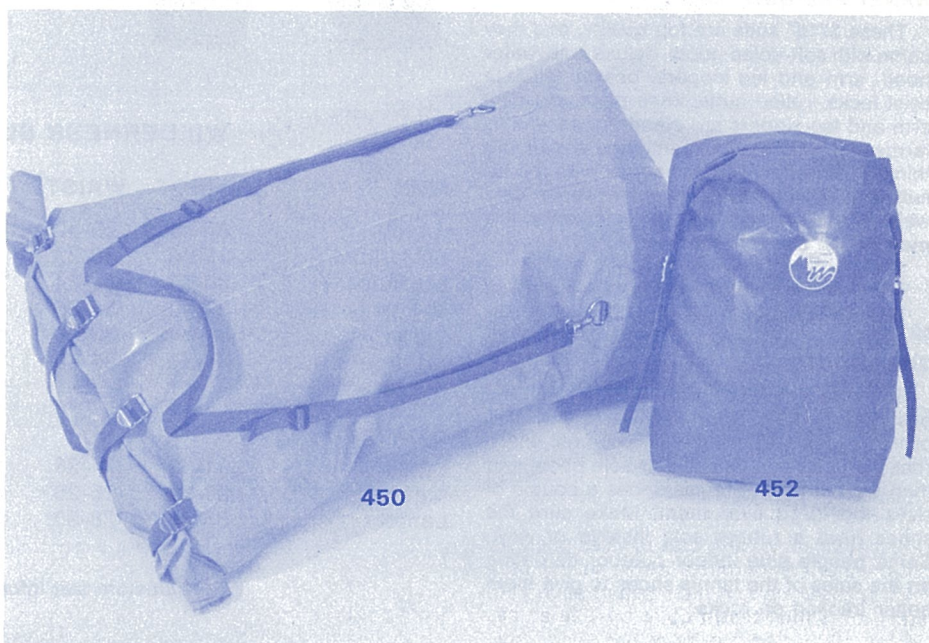
WATERPROOF BAGS

NORTHWEST RIVER SUPPLIES BAGS

For many years, military surplus bags were available in practically unlimited quantity and at reasonable or even cheap prices. As a result, we took them for granted and didn't plan for their demise. In early 1976, we finally woke up and after several false starts, many designs, much material, etc., we were fortunate enough to find Phil French and he helped in translating our unrealistic ideas into a quality product. His help allowed us to use superior material and still keep the cost relatively low. We use a PVC-covered nylon or dacron fabric which is extremely resistant to puncture, abrasion, and weathering. All buckles, D-rings, and snaps are nickel plated steel for longer life. We honestly believe these bags to be superior to any other bags on the market at any price. Both bags are guaranteed for one year against defects in materials and workmanship.

450 \$24.00 BILL'S BAG

These bags turned out even better than we hoped. Fill it with all your gear, roll the top down tightly and cinch down the four straps and buckles and you have a waterproof bag. It provides enough 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 bag has two pack straps on the back for carrying (or use the carrying handle). The straps or the handle can be un-snapped and wrapped around a thwart or frame member (and resnapped) to secure the bag. Material is a bright orange, PVC-covered 18 oz. nylon, dimensions are 20" x 10" x 48" high.



452 \$18.00 BLUE BAG

Same basic design as the #450, but with two side straps like the small black surplus bags, and a carrying strap. Because it's a little larger than those surplus bags, careful packers will find this an ideal size. Bright blue PVC-covered 16 oz. dacron. Dimensions: 15" x 8" x 26".

454 \$? UNIVERSAL PORTAGE PACK

Waterproof bag, pack frame and canoe carrier #377.

We were working on prototypes for our waterproof bags and the canoe carrier #377 and suddenly realized a completely waterproof pack with frame and canoe carrier would be perfect for longer canoe trips. The bag design is still being modified so price and some design specifications are still uncertain. Bag may be available separately. Write us for latest information.



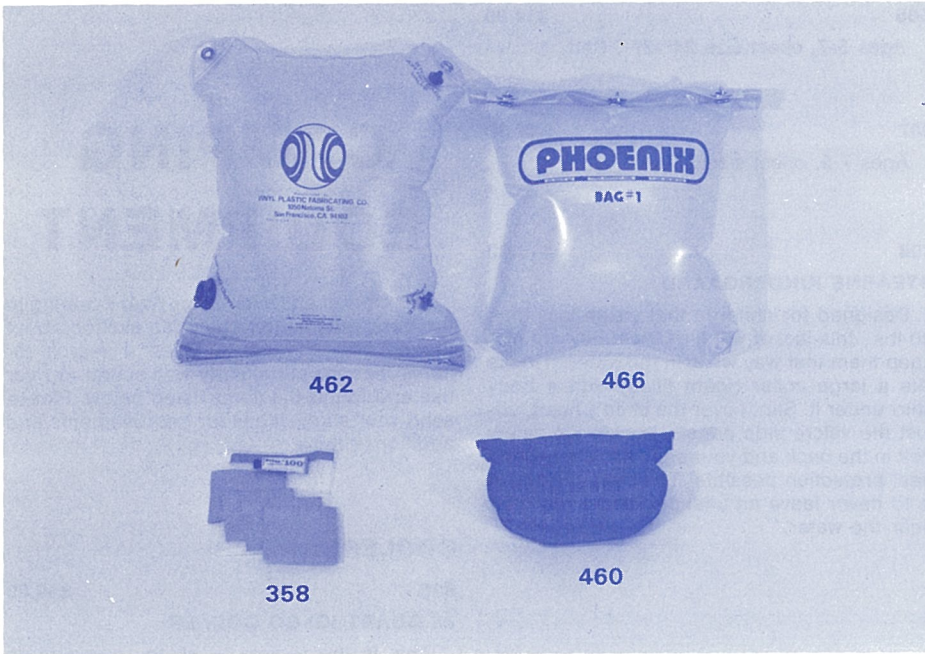
LIFE JACKETS

For lakes and quiet rivers, save some money and buy those cheap vests (bibs) at a discount house. For whitewater, get something good!

500 \$34.00

STEARNS RIVER RAFTING JACKET

This jacket has a solid feel and performs well in the water. These type V jackets are becoming very popular, and their greater comfort and durability make them a good move up from the commercial #501 jacket. The two chest straps, a third, lower adjustable strap, and side adjustment cords provide security and a good fit. Has 22 lbs. of floatation, plus a foam collar to keep the head up and provide some protection. Coated nylon outer, foam floatation and nylon mesh inner liner. Large size fits 6', 180# and up. Medium fits down to about 5'6" and 140#. Small below that. We have a Stearns distributorship so we can afford the lower price to you.



OTHER BAGS

460 \$3.00

WATERPROOF POUCH

This one holds an instamatic or other small camera (but won't hold a 35mm SLR). It clips over your belt, or has loops for threading the belt through it. Surplus, but brand new in the original package.

462 \$10.00

PROTECTED CAMERA BAG

This "pillow" is very cleverly designed. It has an inner compartment with a sealing flap which is rolled up and then zipped shut. The outer bag is then blown up to provide an air cushion all around the inner bag (and your camera). For protection of those expensive cameras and lenses, this is the best bag we have seen. Inflated dimensions are 16" x 12" x 10" deep.

464 \$10.00

A. B. SEA DAY BAG

These have been a very popular item. We put it in the kayak above the rear floatation bag, blow the bag up around it, and have an instant (but small) stowage/floatation bag. It's also very practical as an easy-to-use stowage bag in rafts and canoes. Dimensions: 12" x 18".

466 \$10.00

SMALL PHOENIX DRY BAG

This is made out of 20 mil vinyl with fold-over lip that fastens to a watertight clasp. Also has two heavy-duty grommets for tying it into a canoe, raft, or kayak. Peter Sonderegger used these bags in the Northwest Territories last summer and says they're really nice. Dimensions: 13½" x 18".

468 \$12.50

LARGE PHOENIX DRY BAG

Same design as the small bag, same high quality, but larger. Dimensions are 18" x 24".

358 \$1.25

VINYL REPAIR KIT

What can we say, it hasn't changed since we described it the first time (see Canoe/Kayak bags).

501 \$16.00

For extra protection at a low cost, we offer the commercial all-vessel jacket ("Mae West" type). The new ones have a coated nylon fabric instead of cotton. These are the heavy-duty model with a 12-gauge vinyl pouch instead of the standard 8-gauge and have been improved this year with better closures (wrap around straps and a lower clasp instead of tie). These have vinyl pouches filled with kapok and provide more than the required floatation. All jackets of this type should be treated carefully (do not compress) to avoid puncturing the vinyl pouches.



502 \$28.00

STEARNS DELIVERANCE

What a crummy name for a good kayaking jacket. This jacket has ribbed foam floatation in a nylon shell. Bottom section may be worn up (probably should be) for comfort and so you won't mess up on your roll. Has a good zipper and cloth tie at break in waist. Gold or blue. Sizes: S(36-38), M(40-42), L(44-46), XL(48-50).

503 \$23.00

ADULT GATSBY CANOEING VEST

Evidently designed for some flake in a white suit to go midnight canoeing in. A very comfortable jacket with zipper and lower chain. Universal size and comfort make this a good vest for flatwater and mild whitewater only. Good jacket if you have trouble getting people to wear any protective vest. Colors: blue or gold.

506 \$14.00

Ages 5-7, chest size 24"-27", Red.

507 \$14.00

Ages 7-9, chest size 27"-30", Gold.

508 \$16.00

STEARNS KINDERGAARD

Designed for children that weigh less than 30 lbs., this jacket will turn them face up and keep them that way while in the water. It looks like a large collar (foam filled) with a body shirt under it. Slip it over the child's head, adjust the velcro side panels, buckle the safety belt in the back and your child has the second best protection possible. The best protection is to never leave an unsupervised child in or near the water.

CAMPING EQUIPMENT

We carried a few items for river camping in the past, but weren't really too excited about them. Last year we launched a search for items that are particularly well suited to river use and found the items listed below. Please send your suggestions for improvements and additional items.

COOLERS

615 \$65.00

86 QUART IGLOO COOLER

This is the freezer to all the competitors coolers. Having ice at the end of a week-long trip is only possible in these wonderful boxes. We know they cost a lot more than Coleman or Thermos, but the quality difference is there. These have Center Water Freezers, Salad Compartments and cutting boards. You can sit on them, and use them as seats in your frame. Buy it if you can afford it. Dimensions: 33½" (L) x 16" (H) x 16½" (W), red and white.

617 \$40.00

68 QUART IGLOO COOLER

Somewhat smaller, dimensions: 28¾" (L) x 16½" (H) x 15¼" (W), red and white.

618 \$30.00

48 QUART IGLOO COOLER

Smaller yet, dimensions: 24½" (L) x 14¾" (H) x 14¼" (W), red and white.

620 \$11.00

2 GALLON IGLOO WATER COOLER

Igloo and Gott both make superior coolers for mixing lemonade, etc., on the river. We were already ordering from Igloo so we went with their 2 gallon insulated cooler with the heavy-duty top you can sit on to make a stool. Includes spigot and 1 gallon plastic divider. Dimensions: 11" (W) x 13½" (H), red and white.

ALUMINUM DUTCH OVENS

A Dutch Oven is a wonderful cooking utensil for outdoor (and indoor) use. For years we couldn't locate an aluminum Dutch Oven manufacturer (and didn't try too hard because we were told hot spots are a problem). 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 of unusual cleaning methods make the Aluminum Dutch an ideal river accessory (watch the heat or burn the food).



504 \$22.00

YOUTH GATSBY CANOEING VEST

Same as above: gold only, for children who weigh 50-90 lbs.

STEARNS PEE WEE VESTS

A small version of the standard Sans Souci jacket, plus the added features of a body strap and leg straps. USCG approved type III with 7, 9, or 11 lbs. floatation depending on the size. Once your children are in these jackets the leg straps hold 'em in so there is no worry about the jacket coming off.

505 \$14.00

Ages 2-5, chest size 20"-24", Blue.

509 \$38.50

MARAVIA LIFE JACKET

This jacket was the first Type V approved by the Coast Guard for commercial use. Designed much the same as the #500 STEARNS jacket, it is foam filled, has 2 quick-release buckles on the front and 2 adjustable straps on the back. Its unique use of vinyl coated polyester mesh (high tear strength, exceptional resistance to UV) allows MARAVIA to guarantee this jacket for 2 years against any defect in workmanship or material. One size fits all (sort of the common problem with all universal sizes).

510 \$34.00

MARAVIA CHILDRENS JACKET

Same jacket as the #509, however this one is designed to fit the little people that weigh more than 50 pounds.

630 \$20.00

12" ALUMINUM DUTCH OVEN

Serious river cooks usually use this size Dutch for cooking main dishes, desserts and some breakfast menus. Weight including lid, 7 lbs.

632 \$15.00

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 larger Dutch. Weight including lid, 4 lbs.

634 \$2.00

ALUMINUM POT PLIERS OR TONGS

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 the tongs, try those slip groove waterpump-type pliers from your local hardware store. In fact, try the pliers anyway, because they are much better for most river uses than regular pliers.

640 \$25.00

THERMA-REST

Why didn't I think of this? Open cell foam makes a good pad but is bulky, and 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 and it's neat! You just unroll it, open the valve and it sucks the air in! Give it a couple of puffs if you want it a little firmer and close the valve. To pack, open the valve, roll it up tightly, and close the valve. It stays rolled and slips into a plastic case only 4" in diameter. I'm going to give up my nylon covered foam for this even though I prefer a full pad to a ¾ one. Coated nylon twill, 47" x 19" x 1½", weighs only 24 oz.

650 \$.40 or 4/\$1.00

SUN PROTECTIVE CREAM

Extra large family size of Zinc Oxide. Doesn't anybody out there burn?

712 \$4.95

RIVER RUNNING, BY VERNE HUSER

Verne has many years of experience in running and guiding river trips. He is also a contributing editor to Downriver. He has done some excellent writing, and his book has good information although he is somewhat oriented towards going on a commercial raft trip rather than taking your own trip. This widens the audience, but at the expense of some information for people who take their own boats. Like Whitewater Rafting above, this book slights the use of small and inexpensive rafts. However, in the paperback edition at \$4.95, this is an excellent buy.

714 \$8.95

WILDWATER TOURING, BY SCOTT AND MARGE ARIGHI

This was the first of the good books on river running. It has information on rafting, kayaking and particularly Northwest rivers. Lots of information for anyone interested in whitewater touring. Not only does it contain a wealth of information on all phases of river running, but also very detailed guides and maps for nine wilderness river tours of the Northwest. Besides, it makes good reading even if you never get to run a river in the Northwest. We also like the emphasis on inexpensive rafts!

716 \$14.50

WHITewater!, BY NORMAN STRUNG AND ETC, ETC, ETC.

This new and elaborate book combines rafting, kayaking, and canoeing. We haven't really had a chance to thoroughly appraise it yet, but it looks very promising.

718 \$4.95

KAYAKING, BY JAY EVANS AND ROBERT R. ANDERSON

Sub-titled The Whitewater Sport for Everybody, this is the first book to approach the quality and information necessary 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, and the book is well done and balanced.

720 \$10.00

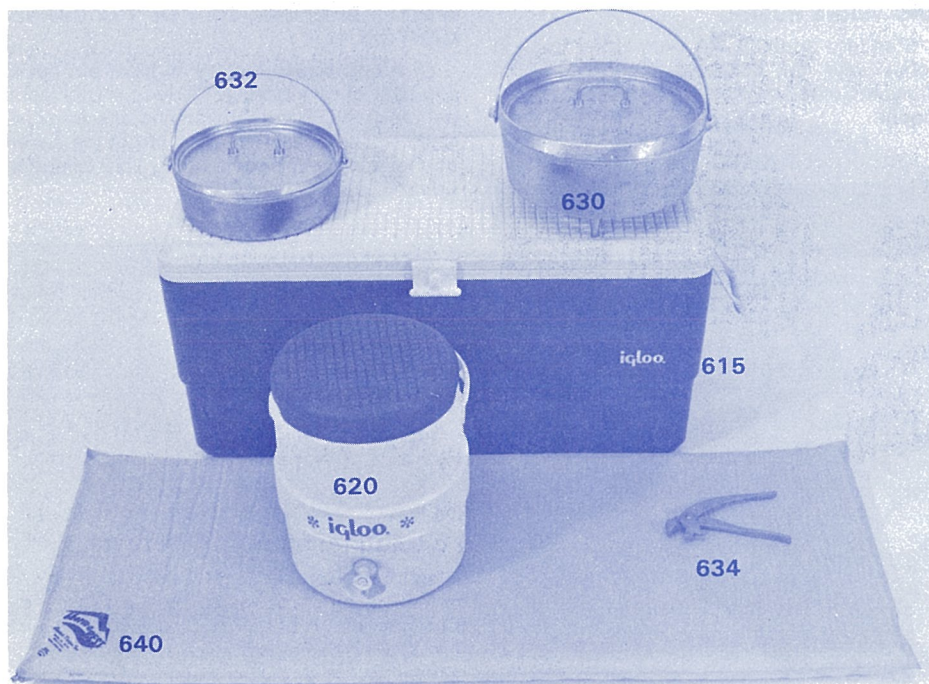
COMPLETE WILDERNESS PADDLER, BY JAMES DAVIDSON AND JOHN RUGGE.

This book combines a narrative account of an actual trip with step by step information and instruction. Get this book if you are into canoeing and want to think about longer trips. It is well written, too.

721 \$3.50

CANOEING WATERS OF CALIFORNIA, BY ANN DWYER

Written for those of you who use open canoes, this book sketches tidewater, lake and river runs in California.



BOOKS/MAPS/RIVER GUIDES

We much prefer (and only carry) books by accomplished River Runners. All items in this section will be shipped Post-Paid.

710 \$12.50

WHITewater RAFTING, BY WILLIAM MCGINNIS

This is the best book we have ever seen on rafting. It has more and better information than any other book including some very 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. Aside from this, we have to say this is the best book ever on the subject. If you can afford it, this should be your first choice.

723 **\$5.95**
WEST COAST RIVER TOURING GUIDE, ROGUE RIVER CANYON AND SOUTH, BY DICK SCHWIND

This is another amazing book. Written over several years, it has very fine descriptions and the reviews say it is an outstanding book for accuracy, and we can attest that it makes very interesting reading. The only river described in it that we have run is the Rogue and it is very interesting to read their description and and compare it with the Arighi book above, along with our recollections over several years and water levels.

724 **\$5.95**
SIERRA WHITEWATER, BY CHARLES MARTIN

Martin does for the Sierra Rivers what Schwind did for the coastal rivers.

725 **\$2.00**
WHITE WATER HANDBOOK FOR CANOE AND KAYAK, BY JOHN T. URBAN

A fine book for rafters as well as kayakers. Valuable information for all skill levels, but mostly for beginners.

726 **\$4.50**
BOATBUILDER'S MANUAL, EDITION II, BY CHARLES WALBRIDGE

This is just a fascinating book. If you have ever wanted to build a kayak, or just want to know how to go about it, this is the only book we found that really does the job. Interesting, too. Our only disagreement would be with the emphasis on the new flexible boats that won't break. We believe there are times when a boat can be trapped under high pressure against a rock and you want it to break apart like an egg; and release the "chick" — YOU!! Aside from that, everything makes good sense. We know people who built excellent boats from the earlier edition of this book.

730 **\$5.95**
GRAND CANYON RIVER GUIDE, BY BUZZ BELKNAP

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.

732 **\$3.95**
SNAKE RIVER GUIDE, BY BUZZ BELKNAP AND VERNE HUSER

Standard addition. An even better book in some ways for browsing than the Grand Canyon Guide . . . Not as interesting a river, though.

740 **\$4.00**
OREGON RIVER TOURS, BY JOHN GARREN

A book we discovered last year. It looks good with nice pictures and maps of 13 Oregon rivers. Well done, though the Arighi book above has better descriptions and directions of the rivers they both cover.

741 **\$4.50**
ROGUE RIVER MAP, BY MIKE DONLEY

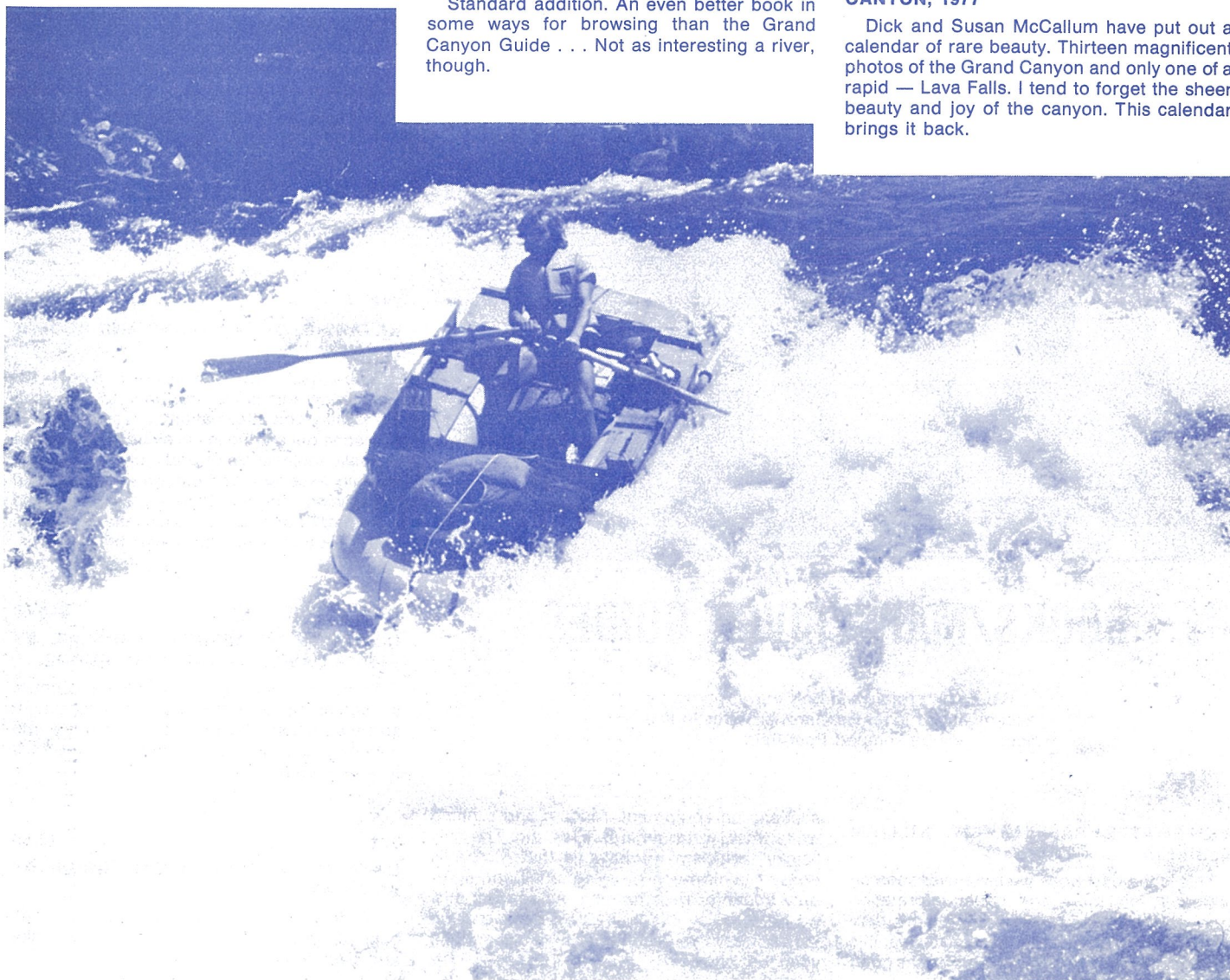
This is the way maps should be made. Colored contour map with all kinds of extra information, even including maps of each of the major rapids. A lot of work and thought went into this one. Waterproof edition, 4 colors, 24" x 36", etc.

742 **\$4.95**
MIDDLE FORK SALMON RIVER MAP, BY MIKE DONLEY

Although this map will not be available until after 1 May, 1977, we expect it to be just fantastic. Waterproof edition, 6 colors, 24" x 36", etc., etc.

750 **\$4.00**
A RIVER RUNNER'S VIEW OF THE GRAND CANYON, 1977

Dick and Susan McCallum have put out a calendar of rare beauty. Thirteen magnificent photos of the Grand Canyon and only one of a rapid — Lava Falls. I tend to forget the sheer beauty and joy of the canyon. This calendar brings it back.



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Moscow, Idaho 83843**

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Total

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Rush: Dated Material