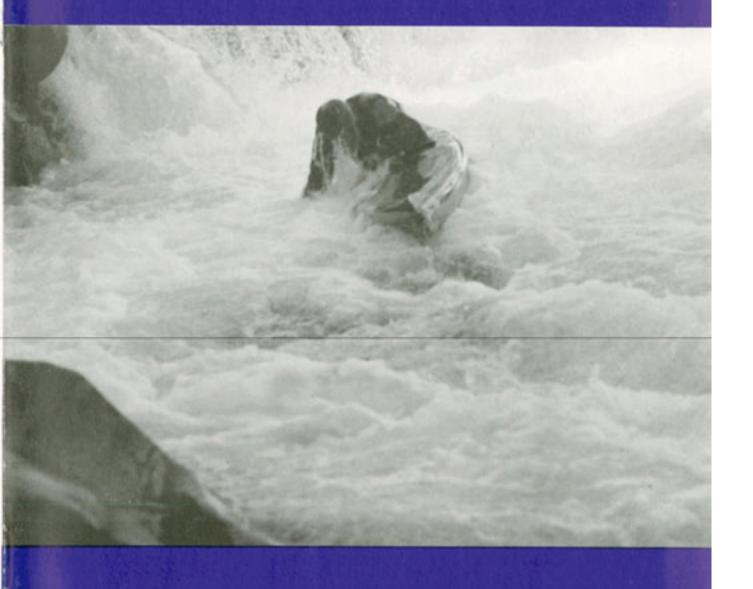
American

WHITEWATER

the Journal of the American Whitewater Affiliation



JAN/FEB 1977

Vol. XXII, No. 1

HAHN'S HONCHOS



ΓEWAΊ

Sponsored by The **American Whitewater** Affiliation Vol. XXII, No. 1 **JANIFEB 1977**



The American Whitewater Affiliation

Executive Director JAMES C. SINDELAR 264 East Side Dr. Concord. NH 03301

Board of Directors

President J. Calvin Giddings 1425 Perry Ave. Salt Lake City. UT 84103

Vice President Paul Davidson 4200 Pine St. Philadelphia. PA 19104

1972-76

David O. Cooney 21 Haggerty Rd. Potsdam NY 13676

Ann Schafer 22406 DeKalb Dr. Woodland Hills. CA 91364

1976-78

Scott Arighi 19697 S. Falcon Drive Oregon City. OR 97045

Robert Burrell 1412 Western Ave Morgantown. WV 26505

O.K. Goodwin 1240 Moyer Rd. Newport News. VA 23602

George Larsen 456 Hawthorne Ave. San Bruno. CA 94066

Treasurer

Rose Mary Gabler 10 Boulder Rd. Lexington. MA 02173

Contents

Moving the Peaks to the Valleys Fern Steams	6
How to Rescue a Broached Canoe	
R. Steve Thomas	10
1976 Open Canoe Championships	12
Strainers & Sweepers	16
Friends	18
What Do You Say, John Muir? WPRF	21
Recapping Neoprene Spray Skirts	
Charlie Walbridge	24
Wild River Still Untamed Dr. Kay Swanson	28
DEPARTMENTS	
Hahn's Honchos 2 Dean's Voyageurs	26
Letters 4 Classified	33
Try This 24 Affiliates	34

Editorial Chairman and Editor: Iris Sindelar. P.O. Box 321. Concord. NH 03301.

Midwest Regional Editor: Gary E. Myers, 28 W 136 Hillview Dr., Route 1, Naperville, IL 60540

Editorial Committee: Ed Alexander. O. K. Goodwin, Rose Mary Gabler, Geo. Larsen, Ray Gabler.

Gary E. Myers, Bob Lantz, Fred Dietz, Kerry Heidenis. Joel Freund. Business Manager: Rose Mary Gabler, 10 Boulder Rd., Lexington, MA 02173

Circulation Manager: Kerry Heidenis, P.O. Box 51, Wallingford, CT 06492

Membership Chairman; Surfing Reporter: Geo. Larsen, Box 1584. San Bruno. CA

Midwest Membership Chairman: Fred Dietz, 1590 Sleepy Hollow. Coshocton, OH43812

Advertising Chairman: Joel Freund. 440 Mission Blvd, Fayetteville, AR 72701

Conservation Chairman: Robert Lantz. Sunbright. TN 37872

Safety Chairman: O. K. Goodwin, 1240 Moyer Rd.. Newport News. VA 23602

Racing Editor: Ray Gabler. 10 Boulder Rd.. Lexington. MA02173

How to Write to American Whitewater: Deadlines for all material. including **advertising**, are the 25th of **Dec.**, Feb., Apr.. June. Aug.. and Oct., for Nos. 1, 2, 3, 4, 5 and 6 respectively.

Send Race Schedules and results to the Racing Editor. Ray Gabler.

Send membership subscription payments, changes of address. non-receipt of copies to Circulation manager. Kerry Heidenis. P.O. Box 51, Wallingford. CT 06492.

Send advertising copy and proofs to the Editor, iris Sindelar.

Send Payments for Advertising and requests for advertising information to the Adverticing Manager, Joel Freund.

American Whitewater is mailed to all members of the American Whitewater Affiliation, an affiliation of boating clubs and individuals interested in whitewater paddle sport. Membership \blacksquare open to interested individuals at S6.00 per year and to clubs at \$11.00 per year. Club membership

Publication is planned at 6 times yearly. Single copies., \$1.30 each. Surplus back copies are available at reduced prices. Write Geo. Larsen. P.O. Box 1584, San Bruno, CA 94066.

The Staff and committee members listed above are unpaid Whitewater enthusiasts who volunteer their time and efforts to bring affiliate/member subscribers this journal. Your contribution of contribution of the states reactive and schedules, photos and straight surplus as a second of the states. articles, letters, race results and schedules, photos and drawings are essential for their continued efforts and the timely publication of the American Whitewater Journal.

Vol. XXII, No. 1 © 1977 American Whitewater Affiliation. All rights resewed.

COVER: Ron Frye rolls after a spill during exploration of the Clarks Fork of the Yellowstone (Montana). Story on p. 28. Photo by Dr. Kay Swanson.

HOW TO RESCUE A BROACHED CANOE

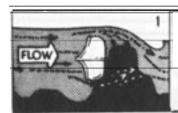
"The Appomattox Rope Trick"

by R. Steve Thomas, illustrations by Les Fry

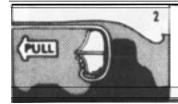
(The following rescue technique is standard in the repertoire of most of the Coastal Canoeists' experienced open boat paddlers. It is often referred to as the "Steve Thomas Rope Trick" since he is the person who introduced its use to the club, and is considered the system's most experienced practitioner. Steve says the technique has been used hundreds of times by club members, and that it is standard to practice it during lunch stops on club trips. Our thanks to the Coastal Canoeists of Virginia for permission to reprint this information.—Ed.)

Stated simply, the "Appomattox Rope Trick" helps the boat roll, dump itself and come up empty, thus avoiding the necessity of lifting any water. The trick is in getting the line in the proper position to do the most good (and the least damage) most easily. The more quickly rescue can be effected, the better are the chances of success.

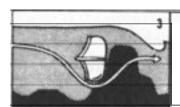
The illustrations below show the boat fully submerged (such luck). This technique, however, is effective in any situation in which the boat is deep enough or the water has force enough to preclude simply lifting the boat out.



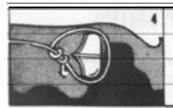
How to position a line for rolling out a broached canoe ... without fighting your way upstream to get the line under the canoe.



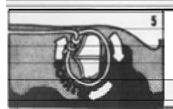
It's necessary to get the line into this position, tied securely to the low end of a thwart, so that pull is exerted on the whole canoe...to let keel, gunwales, hull, as well as the thwart share the strain of the pull.



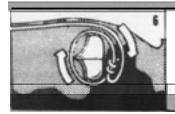
Here the force of the water works for you as you lower the running end of a half-inch line downstream and push it beneath the canoe...on whichever side of the rock or other obstruction offers the best chance of release (usually the side with the most canoe overhanging).



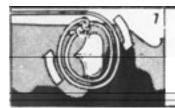
Take the running end of the line back upstream over the top of the canoe and tie it to the standing end with 2½ hitches.



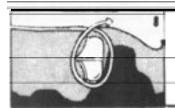
Pull running end over the top...downstream...rotating the loop right around the canoe.



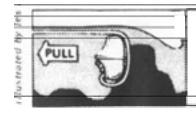
Continue rotating...right on around...and up the upstream (open) side of the canoe.



When the hitch reaches the surface on the upstream side, untie it and hold the running end securely.



Pull the running end up over the boat and get a few feet of free line.



Tie the line to the thwart nearest the rock with a clove hitch. Shove it as far down the thwart as possible... and PULL! Canoe will barrel roll and pop free. It's well to tie a second line from a substantial tree or rock to the end of the canoe most likely to be the upstream end when released.

VOL. **XXII/1** 11

1976 OPEN CANOE CHAMPIONSHIPS

(Because of space limitations we are publishing the results of only those classes consisting of five or more boats.)

327.92 331.51

ACA NATIONAL AMATEUR OPEN CANOE SLALOM CHAMPIONSHIPS

Hoback River, Jackson Hole, Wyoming September 2,1976

OC-2 (11 boats)	Time	Pen	Score
 D. Emory/T. Johnson P. Kennedy/Marshai H. Baxter/D. Baxter 	278.15 286.13 298.17	10 10 0	288.15 296.13 298.17
OC-2M (12boats)			
I. G. West/P. Kennedy 2. B. Johns/E. Weatherby 3. S. Tingey/D. Emory	322.52 307.31 305.15	10 30 50	332.52 337.31 355.15

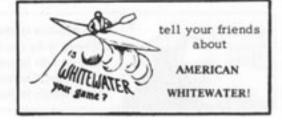
OC-1 (15 boats)

1. Mike Rainey	
2. Rick Rigg	
3. Robert Harrison	





Open Canoe Slalom Championships, 1976. ABOVE: Photo by Bob Woodall, Jackson Hole Guide. AT LEFT: Photo by Richard Murphy, Jackson Hole News.



American WHITEWATER





ABOVE: Off and running. Photo by Steve Beedle, Jackson Hole Guide. AT LEFT: Quick switch of paddling sides. Photo by Bob Woodall.

ACA NATIONAL AMATEUR OPEN CANOE WILDWATER CHAMPIONSHIPS

Snake River, Jackson Hole, WY (Wilson Bridge to West Table Creek. 33 miles)

September 3,1976

Schreinner 2,1	710
OC-2 Med. (12boats)	Time
Crozier/Treibold Block/David Waddle/Waddle	2:43:4 2:46:5 2:47:5
OC-2 Short (7 boats)	
1. Walsh/Mendes 2. Hornbeck/McNett 3. Williams/Kennedy	2:55:2 2:57:4 3:04:4
OC-2M (17boats)	
I. Rademaker/Rademaker 2. Stasz/Stasz 3. Schleuter/Schleuter	2:47:2/ 2:49:4 2:49:5
OC-2W (5boats)	
1. Phillips/Shelton 2. West/Johns 3. Johnson/Pealer	3:11:50 3:26:3
OC-1(9 boats)	
1. Tracy 2. Vincent 3. Hunter	2:55:3: 3:00:0 3:00:5:

VOL. XXII/1

WYOMING GOVERNOR'S CHALLENGE CUP

(Same course as Wildwater Championships) September 4,1976

The Governor's Cup race was limited to three canoes from each state, chosen by the governor of that state. The governor sponsoring the winning team had his name engraved on the traveling trophy.

Fifteen states competed for a total of 39 boats and 37 places (two ties).

Each boat received points equal to the place it earned (#9 got 9 points, etc.), the scores of the three boats from each state were totaled, and the lowest score won. Teams with fewer than three boats received 38 points for each nonexistent boat.

Points

 Wisconsin 	8
(Trebold/Crozier, Blo	ck/David, Schleuter/Schleuter
2. Wyoming	29
(Baxter/Baxter, Tsche	etter/Jensen, Birr/Dixon)
Montana	35 (total time 8:09:51)
4. Oregon	35 (total time 8:09:52)
5. Texas	44
Nebraska	56
7. Washington	59
8. Utah	78
N. Carolina	80
10. Florida	86
II. Vermont	89
12. Colorado	94
Colorado	94

NATION'S WHITEWATER CLASSIC Snake River Canyon, Jackson Hole, WY (West Table Creek to Alpine Jct.,

12 miles)
September 5,1976

Classic (9boats)	Time
1. H. Baxter/D, Baxter	1:08:06
2. M. Fennimore/S, Adams	1:10:50
3. J. Martin/D, Pearce	1:11:09
OC-2 (7 boats)	
1. Kennedy/Marshal	1:12:21
2. East/Roundtree	1:13:17
3. Sullins/Webster	1:14:15

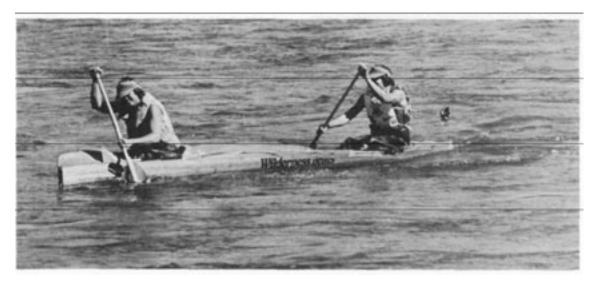
Individual overall point scores (points awarded to place finishers in all events in all four days of competition)

1st = 5 pts., 2nd = 3 pts.. 3rd = 1 pt.

Men (28 total)	Points
1. D. Emory	19
2. Tom Johnson	15
3. P. Kennedy	14

BELOW: Product of racing evolution in Governor's Cup race: AT RIGHT TOP: The bowperson has more fun (Whitewater Classic). BOTTOM: Classic upstream flip in whitewater classic. Photos by Bob Woodall, Jackson Hole Guide.

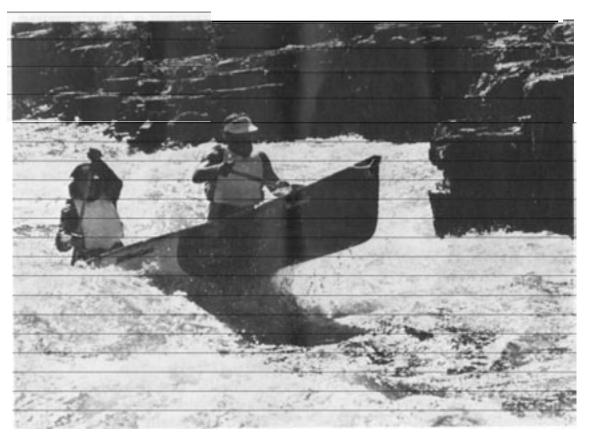
(Sorry, no participants' names accompanied the photos. If you know these folks, let us know!)

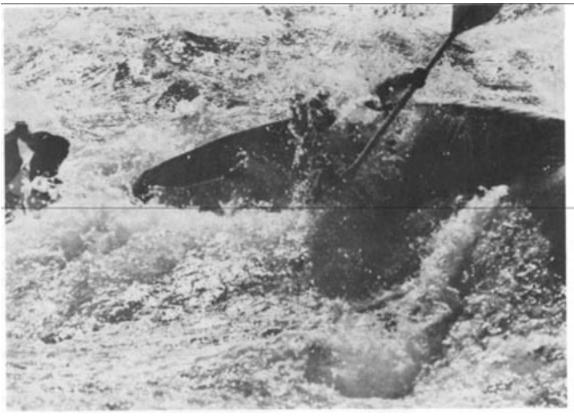


State

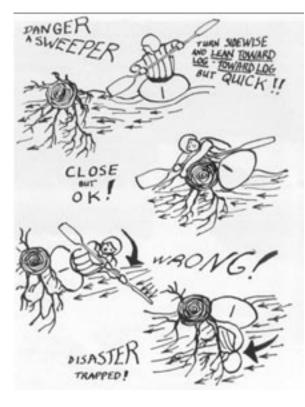
13. N. Dakota

14. Kansas15. New Jersey





VOL. XXII/1 15





STRAINERS & SWEEPERS

These terms are used variously in different areas of the country to refer to a *log* or *tree* sticking out into the current, posing the threat of entrapment to passing boaters (or swimmers). Most boating instruction (we hope!) includes strong warnings to stay well away from these river hazards. But at times even the best boaters may find themselves inescapably confronting a sweeper/strainer.

The Washington Kayak Club, which has always been very safety-conscious, last summer published sketches on what to do if approaching a sweeper a) in the boat and b) swimming. We reprint the sketches here with permission from the WKC Safety Chairperson, Dave Hamilton.

Ironically, shortly after the sketches were published, Dave's best friend, Jack Tucker, was fatally trapped by an underwater log, part of a log jam on a relatively shallow (but very swift) section of the Snoqualmie R.* Those present theorized that Jack had tipped, had possibly hit the bottom and been momentarily stunned (since he didn't even attempt to roll), came up downstream of his boat and was immediately wrapped around the log with the boat subsequently crushing him against it. The force of water and boat apparently asphyxiated Jack even though his face was above water for some time. In spite of prompt and knowledgeable help from his companions, his body was so securely pinned that they could not budge him; it took a diver, three other men and a 150-foot, ½" line to recover the body the next day. (The log since been removed.)

Steve Thomas of Virginia's Coastal

^{*}The made account of this tragedy was published in the Washington Kayak Club newsletter.

Canoeists was luckier. Though an expert canoeist, he came upon a strainer/sweeper (big, ugly, branchy tree) with no time to maneuver away from it.** The canoe broached and the bow caught the bank, locking the boat in the broach position—otherwise it would probably have pivoted off the tree. The boat was pinned almost upside down, and the impact had knocked Steve's leg under a thwart, where it hung up and trapped him in the canoe. Steve was barely able to hold his head above water and could find no means of improving his situation. Worse yet, the trip had become somewhat strung out and he knew that it would be virtually impossible for anyone to see that he was pinned in the boat. Larry Gross, the sweep, arrived and saved the day (and Steve) by immediately asking other boaters where the paddler of the broached boat was, then finding out for himself and organizing an instant rescue effort. Steve was rushed to the hospital for treatment of shock and torn knee cartilage. He considers himself fortunate that that was all the damage he incurred, but would like to share the following thoughts with the paddling community.

"This was a **flukey** accident. People seldom get caught in open boats, and the "lever lock" broach was unusual. Yet, we can improve water safety as a result of this mishap. I recommend the following:

"1) Limit group size to six to ten boats on heavy-water rivers. The lead should know the river, but the most skilled paddlers should sweep. Use two sweeps. If a boat broaches and the group is not large enough to rescue it,

**Steve's own detailed account appears in the Coastal Canoeists' Nov. 1976 CaNEWS, a superlative newsletter edited and illustrated b. Les Fry; and also in the Canoe Cruisers Assoc. (of Washington. DC) Cruiser. Dec. 1976.

leave it and come back later.

"The lead should **stop** at least once each mile, group up and account for all hands. Paddlers within the group must not only try to keep the boat behind in sight, but be prepared and alert to rescue the paddler just ahead. All hands should stop at any broach or gather to the whistle indicating a spill and ask, as Larry did, 'Where is the paddler?'

- "2) Wear a highly visible life jacket and helmet. I was wearing a black wet suit but had a safety orange jacket. Larry's spotting my jacket helped save me.
- **"3)** Wear a whistle and blow it when a rescue is needed. I had one around my neck, but didn't think to blow it to attract attention.
- "4) Wear snag-proof footwear. I later examined my right tennis shoe and am convinced that I was caught by the rubber toe cap at the base of the tongue. Henceforth, on heavy water I will either wear toe-capless tennis shoes or (wet suit) booties which have no caps."



VOL. XXII/1

FRIENDS

There is a place where I often go, to share with friends that you might know. To the "put in" drive our dedicated band, We go to the river with boats and paddles in hand, dressed individually but always with pride, to once more begin our joyful and perilous ride.

The call of the river is a powerful thing. It makes my mind and body sing. It is a personal experience which touches my soul. The river cleanses my body and renews my spirit as well. As anybody who has joined me there can tell, that "running" rivers makes the heart swell.

To dance and play upon the waves, to go forward, backward, and sideways, and sometimes even upside down in awkward ways, to dump and roll again and again, I feel, brings me closer to that endless circle in life, in my struggles and in my strife, to touch the river of life, to be renewed again.

I don't remember how many times I've dumped and swum, before I learned to roll at the skill level where I am. To charge out of an eddy in three foot waves, is still a thrill in many waves. To ferry across to the other side, provides a most exhilarating and rewarding ride. To surf in a hole and do "pop ups" is great fun, and "enders" I have sometimes done.

To maneuver in rock gardens does take some skill, to negotiate drops makes the heart stand still. They call forth acute awareness to avoid a spill. To brace in holes is a challenging thing, especially when friends are looking on with a grin. Sweepers I always approach with dread, they force the cobwebs from my head.

The river is often white with foam, with high-peaked waves and strong eddy currents roam. There are headwalls and boils in high water too, and potential danger lurks there for me and you.

The lunch spot is always a popular place, where those who are tired can rest with grace, and where friends can share stories of the day, past, present, and future in their own special way.

My paddle is the most important thing to bring, besides my skill and courage in the Spring. When rivers are high or when they are low, down to the river I must go.

My boat is important of course, I couldn't use a horse.

When the "take out" is in sight, I paddle with all my might, and when I stumble from my boat in pain, I feel renewed in spirit, even in the rain.

Good companions all, we have shared this day, and tested our skills in no small way.

The mighty river flows still along, singing its own ageless song.
that we all hear in different ways.

It lures us to return again on sunny days, and in the rain, and sleet and snow, the river always seems to know, that we are sometimes afraid but still we go.

One of my friends the other night, While "running" the river within my sight, gave his all in his personal fight. He touched the earth and sky by day and night. He flew with the eagles in the sky, and flowed with the river in days gone bye.

He was filled with laughter to the very end, before he rounded that last river bend. He lived with courage and died the same. He was my best friend by any name.

And so my friends as you can see, to the river again we go with glee, and sing and dance upon the waves, and share our stories of bye gone days. To catch the spray in our face, and sponge the water from that special place, to paddle hard in the drop, and hope we will be able to stay on top. To hear the roar of the rapid below, and see the blue herring and the winter's snow,

VOL. XXII/1

and the ducklings in the awakening Spring, and to feel Summer's sun that comforts everything. All these things make my heart sing.

During the drive back home we might agree, that the river humbles both you and me, and reminds us of our limited mortality. To be alive is a precious gift I say, and I do try in my own way, to live each day as if it were my last, to throw off the ghosts of the past, to fly with the eagles in the sky, and boat with my friends until the day I die.

by: Dave Hamilton Wash. Kayak Club-Seattle

(Written in memory of Jack Tucker, for his infant daughter)

GET THE WHOLE PICTURE

of American river conservation developments in the monthly ARCC newsletter and support national conservation efforts at the same time. Send \$10 or more to:

American Riven Conservation Council 324C St. S. E. Washington, DC 20003

YOU WON'T GET YOUR JOURNAL

change of address. Third class mail is NOT forwarded and we can't afford to send it any other way.

Kerry Heidenis

AWA Circulation Mgr. P.O. Box 51 Wallingford, CT 06492

HOW TO BUILD—Reprints:from AMERICAN WHITEWATER Journals

- **(B-1)** Neoprene (wet suit material) kayak spray cover
- (B-2) Neoprene C-1 or C-2 cockpit spray cover
- (B-3) Neoprene gloves and booties
- (B-4) Fiberglass kayak paddle
- (B-5) Kayak paddle modification and wood shaft care
- **(B-6)** Making and hanging slalom gates
- (B-7) Raft rowing frame
- (B-8) Repairing aluminum canoes
- (B-9) Open canoe flotation
- (B-10) Stuff-bag rescue rope

Please order by code number, at \$1.00 per reprint, 5 or more 90c each.

AMERICAN WHITEWATER (**AWA**) **also offers you:** AWA embroidered shoulder patches, \$1.20 each; AWA Decals, 2 for \$1.00; Back Issues: Vol. 17, 4 issues of 1972, \$3.50; Vol. 18, 4 issues of 1973, \$3.50; Vol. 19, 6 issues of 1974, \$5.00; Vol. 20, 5 issues of 1975, \$4.50. Mail your check to: AWA, Box 1584, San Bruno, CA 94066.

WHAT DO YOU SAY, JOHN MUIR?

Would You Have Wanted to Pay A Commercial Guide In Order to Walk the High Sierra?

Dear Citizen:

Sound a bit far fetched? Perhaps. But if he were alive today, John Muir would walk with less freedom through his beloved mountains, to "get t eir good tidings." Times are fast changing. Public preserves are in danger of recreational overuse in different parts of the nation. Already, big corporations have moved in on food, lodging and other franchises in our National Parks. Now, as much-needed use ceilings are established for fragile places, there is the threat that packaged and programmed guide services will come to dominate a wide range of activities. Free access may be in jeopardy for such outdoor experiences as canoeing on the Quetico-Superior Boundary Waters, backpacking on the Appalachian and Cascade Crest Trails, climbing in the Tetons, ski-touring in New England, hunting in the Rockies, bird-watching in the Okefenokee and, yes, even fishing or camping in the High Sierra.

Consider a real example. In 1972, to protect the environment, it was necessary and proper for the National Park Service to impose overall use ceilings on the Colorado River in its white water run through the vast Grand Canyon. But the Park Service allocated 92 percent of all user-days to commercial companies who provide (for a fee and at a profit) a guide service for tourists wishing to visit this unique scenic wonder. Only 8 percent was reserved for qualified non-commercial persons seeking to explore and enjoy these public lands quite independent of guided-tour commercial organizatons. These allocations have been maintained since 1972 in spite of a dramatic increase in the numbers of qualified non-commercial applicants—now eight times the 8 percent allocation.

These applications are submitted by non-profit, share-the-expense groups

that comply with all regulations as to safe equipment, expertise, sanitation and environmental protection. River rafts and equipment that once were scarce are now widely sold. Whitewater skills are now practiced safely by an ever-increasing number of persons. Schools and universities are forming a variety of outing groups to cooperate in capital costs and share in the expenses of a wide range of activities across the country, from river-running to skitouring. Many people want to join with their friends to share expertise and cut costs in outdoor vacations, whether it be backpacking in Alaska or canoeing the St. John River in Maine.

Yet a glimpse of the future may be seen in National Park Service figures revealing that, for the 1976 season, at least 4,000 qualified persons wanting to participate in non-commercial Colorado River float trips through Grand Canyon already have been denied free access. These same persons can go as often as they want with commercial concessioners—at about twice the per day cost.

Some 17,000 persons now pay fares for a four million dollar gross business in the heavily advertised commercial guide services on this one river each year. Since the 92/8 percent system went into effect, no changes have been made in the commercial allocations even though, as a group, the outfitters are not using all the spaces available to them.

Park Service Act Of 1916

"... no natural curiosities, wonders or objects of interest shall be leased, rented or granted to anyone on such terms as to interfere with free access to them by the public..."

(16 USC Sec.3)

The National Park Service's continuing enforcement of the arbitrary and discriminatory 92/8 percent allocation of user-days contravenes existing public law and deprives you of a legislative right.

A deeply concerned group has established the Wilderness Public Rights Fund, a non-profit corporation, chartered for the purpose of giving strength and substance to the argument that, in sustaining its 92/8 percent allocation of user-days, the National Park Service has discriminated unfairly and illegally against those qualified users of public lands who do not need concessioner services. WPRF believes that the Park Service's 92/8 percent policy in Grand Canyon, if not challenged, will set a dangerous precedent adversely affecting public participation on public recreational areas throughout the nation. After denial of a legal Petition asking for a revision of use-allocation policy, WPRF, in order to protect a public right, has taken its case against the Department of the Interior to the U.S. District Court in San Francisco (Case No. C76-187). The suit asks the Court, on Constitutional grounds, to direct N.P.S. to immediately revise its permit allocations under limited capacity river management policies.

It is WPRF's contention that, when commercial and non-commercial user groups are required because of government edict to compete for the same public space, the qualified non-commercial category must be given priority.

It is not WPRF's objective to eliminate commercial outfitters on land and on water and thus abridge the rights of that portion of the public that has neither the time, inclination, or capability to organize and participate in a noncommercial wilderness trip. But once a capacity ceiling is placed on the use of preserves because of excessive demand by the combined commercial and non-commercial users, then priorities must be established and choices made between the two sectors. We feel that concessioners, profiting by use of public lands as their major capital re-

source, are legally obligated to be the first to prove how, when, and where their services are unique or essential. (For example, of the public demand they claim to serve, how much is in part artificially created by widespread, colorful advertising and intensive promotion?)

The law permitting concessioner services clearly limits those services to those that are necessary and appropriate (16 USC Sec. 20). Concessioners obviously are not necessary for that portion of the use-allocation for which qualified non-commercial parties have made timely application. So the government finds itself in the position of forcing a person to pay fees and profits to a private business entity in order to use public lands, when that person is ready and capable, safely and with full environmental protection, of using those lands without paying fees and profits. As we see it, this is simply and patently against the law.

The Wilderness Public Rights Fund is composed of numerous individual contributing members from all sections of the United States. Even though newly formed we already have the support of the American Canoe Association, the American Whitewater Affiliation and some of their member groups such as the Colorado White Water Association, and others, in the effort to secure the right to a more equitable allocation share for the non-commercial river user. WPRF is not in any way engaged in the organizing or operation of river trips or any other kind of guide services.

WPRF fully understands and accepts the establishment of use ceilings to protect special natural environments from overuse. We favor the limited use of fragile areas so that wilderness can support itself on its own terms, and we believe that man should enter and enjoy himself in these areas only if he accepts those terms. We endorse with full conviction the highest ecological and safety standards. We seek only an equitable use-allocation of precious out-

door recreational resources.

The substance and strength required of WPRF in bringing its case before government must be drawn not only from river-floating enthusiasts, but from you, the wilderness-loving general public. WPRF needs your help and it needs it urgently to raise funds to support this expensive action. That is why we hope you will join with us and send us your contribution of \$25.00 or of any sum prompted by your own concern, judgment, and generosity.

Yours very truly, Richard Saltonstall, Jr. President, WPRF

Wilderness Pub P.O. Box 308	lic Rights Fund
Orinda, Californ	nia 94563
	your campaign I would like to ociate Member of WPRF and I tribution for \$
Name	
Street	
City	
State	Zip

MOVING? LET US KNOW!



MISSOURI WHITEWATER CHAMPIONSHIPS

The 10th annual Missouri Whitewater Championships will be held March 19 & 20, 1977 on the St. Francis River at Silvermines Campground in the Mark Twain Nat'l. Forest. Information: Elaine Centofanti, 512 Clark, Webster Groves, MO 63119.

CORRECTION: The 1976 National Slalom Championships were held on the Kern River, Calif.; and Steve and Sue Chamberlin won in C-2M, with Ganz and Ganz second. These were incorrect in the SEP/OCT 1976 issue.

HAUTHAWAY KAYAKS

640 Boston Post Rd. Weston, MA 02193

Slalom, Downriver, Touring and Junior Models Surf Kayak, Lightweight Canoes Paddles Spray Covers Life Vests Floatation

USISCA

1977

	e to su			
States Canoe	Slalom Team.	and	Wi	ldwater

Name (pr Address_	(int)
Date	
Type of	Membership:
00000	\$100 Sponsoring 50 Supporting 25 Contributing 10 Associate 5 Paddling
Amount	enclosed \$
t s	pledged \$ JSISCA tate College, PA 16801 Box 921
	tributors will receive a decal.

TRY THIS

Recapping Neoprene Sprayskirts

When a neoprene spraycover gets old, it starts to fray where the rubber is stretched around the lip of the cockpit rim. Small tears can be carefully patched, but after a while it becomes a losing battle. Now you CAN throw the whole thing away, but with neoprene sprayskirts selling at close to thirty dollars and the top part, chances are, in good shape, it may be worth attempting some minor surgery.

To "recap" a neoprene sprayskirt, you'll need about 10" of 40" wide, 1/8" nylon backed material, which will cost about five bucks. A can of glue and some shock cord (if the old cord is frayed) completes the list. For tools, all you'll want is a piece of chalk and a pair of scissors. Here's what to do:

- 1. Cut the neoprene strip into two 5" x 40" strips.
- 2. Butt-join the ends of the two strips to make one 5" x 80" strip.
- 3. Swab the outside 2" on each side of the strip with wet suit glue, leaving a 1" wide dry strip down the center. HINT: In case you didn't already know this, sand the skin side lightly before applying the glue. This makes for better adhesion. Don't try to apply the glue to the nylon side; it just won't hold as well.
- 4. If you are installing a new shock cord, check length and tension on your cockpit rim and trim if needed. A sprayskirt should fit tight, and it is very hard to draw the cord too tight. If you have a choice, 1/4" nylon-wrapped shock cord is best. Smaller diameters and cotton-wraps don't last as well, and may snap at an inconvenient time!
- 5. Lay the shock cord down the "dry" center strip on the neoprene. Fold the neoprene widthwise over the shock cord so that the edges match up. HINT: The shock cord will be a good bit shorter

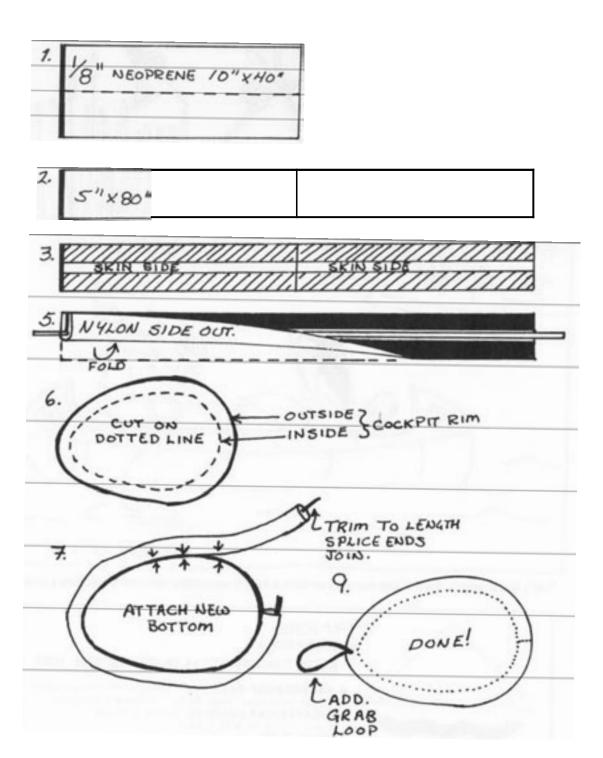
than the neoprene strip. As you finish one end, pull on the cord, and continue up the strip. The cord would be sticking out BOTH ends when you're ONE

- 6. Put your old ratty spraycover on your boat. With the chalk, mark the IN-SIDE of the cockpit rim (not the edge). Remove the sprayskirt and cut along this line. Go slowly so as to leave a clean, unfrayed edge.
- 7. Coat the edge of the spraycover, and the edge(s) of the folded neoprene, with glue. Two to three coats will do. Start at the center of the back, and butt-join these two pieces. Work your way around to the front, and on to the back.
- 8. Chances are there's some neoprene which will have to be cut back for the new sprayskirt bottom to fit. Trim away with scissors. Join the two ends together by sewing, or with stainless steel clips. Allow a minimum of 1" overlap.
- 9. Push the overlap into one end or the other of the new bottom. Coat these edges with wet sut glue and join when dry. Add a grab loop at the front by threading parachute cord through the tip of the spraycover, around the shock cord, and tie securely. This arrangement will need to be periodically reglued unless you can sew the seam (cotton thread), but it will give you many more outings with the same old spraycover.

EXTRA HINT: *Knead* (press together and work) all seams from both sides. Go over every inch carefully for added strength.

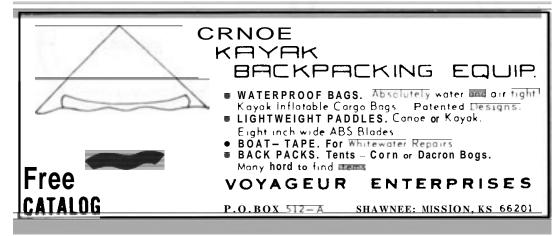
Charlie Walbridge Wildwater Designs Kits Penllyn, Pa. 19422

MOVING? LET US KNOW!





"Let's keep going, Pierre. Maybe we can find a better campsite on Little Mosquito Lake."





Direct hand to paddle contact

- Quick drying Floatability
- Lightweight,,
 Choice of: antique rose," red,
 orange, raspberry or yellow
 Send fist size if ordering

bonnie hot pogie

Dealer Inquiries Invited ! WE HAVE IT

Lined 1/8" Nitrogen Domestic Material

Sewn Seams

New Design Makes Easier Fit on Cockpit Rim

Old Design Still Available

* FLOTATION

Electronically Sealed with 1-Year Guarantee 20 Mil Vinyl with convenient valves and tube lengths

riangular Shape - 5 Sizes Rectangle - 2 Sizes

*NEW ITEMS

insolite Flotation Buoyancy Jacket with Nylon Shell

₩ind Jacket with Nylon Shell, Adjustable Wet Suit Garments Cuffs and Neck

DAUBER CANOE AND KAYAK P.O. Box 59 W

Washington Crossing, Pa. 18977 TELEPHONE (215) 493-5959

WRITE OR CALL FOR MORE INFORMATIO





replacable ABS tips for kayak or canoe paddles 8½ wide or less.

PADDLES

the original dihedral kayak paddle.

Glass canoe with wooden 7

GEAR-BAGS

reinforced viny/ fold down and with velcro

MOVING?

LET US KNOW!



FREIGHT SPECIAL ON A N EASY RIDER K-1 OR C-1 \$25 SHIPPING COSTS ANYWHERE IN THE U.S.

Our Shark, Augsburg I and Augsburg II kayak models and Edge and Sting C-1 models are the most refined on the U.S. market, highly recognized for excellence in construction, appearance, comfort, and particularly for built-in safety features providing for easy entry and exit.

Easy Rider Fiberglass Boat Co. P.O. Box 88108, Tukwila Branch A Seattle, Wash. 98188 206-228-3633

FREE 1977 Color Brochure

We offer all models in Kevlar® 49 construction

27 VOL. XXII/1

AWA Affiliates

ALASKA
Knik Kanoeri & Kayakers
Ed Swanson

3014 Columbia Anchorage. AK 99504

UONA
Dry Wash Canoe & Kayak Club
Keith Jacobson
MPE Bldg INTRAM Arizona State University Tempe. AZ 85281

ARKANSAS

Arkansas Canoe Club Phil **Colwell** 1595 **Woodbrook** Fayetteville. AR 72701

The Bow & stem Joel S. Freund 440 Mission Blvd. Fayetteville, AR 72701

Ozark Mountain Owe Club

Les Long Star Rt. I Russellville, AR 72801

CALIFORNIA
Southern Calif. Owe Assoc. Ron Ceurvorst
3906 Menlo Ave.
Angeles, CA 90037

LERC Voyageurs Canoe & Kayak Club Leon Hannah

12814 Arminta St. N. **Hollywood**, CA 91605

Lorien Canoe Club J. A. Rose P.O. Box 1238 Vista. CA 92083

Chasm Outing Club P.O. Box 5622 Orange, CA 92667

Lera Canoe Club Harold Black 200 Almond Ave Los Altos, CA 94022

Sierra Club Loma Pricta Paddlers
Joe Kilner
185 Loucks Ave.
Los Altos, CA 94022

National Friends of the River Marcel M. Hernandes

1964 Menalto Ave. Menio Park. CA 94025

Idlewild Yacht Club Bob Symon, Rep. 800 Market St. San Francisco CA 94102

Sierra Club River Touring Bay Chapter Joel DeYoung 1455 Union St.

San Francisco. CA 94109 Outdoor Adventures

Robt. J. Volpert 688 Sutter St. San Francisco CA 94102

Antioch Whitewater Club Max Young. Pres. 44 N. Lake Dr. Antioch. CA 94509

Whitewarn **Expeditions/** River Exploration Ud. Wm. McGinnis 1225 Liberty St. El Crrrito. CA 94530

Anhinga Boating Club 727 **S.** 3rd St. Richmond. CA 94804

CALIFORNIA (Cont.)

Mike Eschenbach P.O. Box 468 Pt. Reyes Station. CA 94956 Mother Lade Outdoor School Pacific High School Ken Brunges 581 Continental Dr. San lose. CA 95111

West Coast Canoe/Kayak School

Gary Gray 437 E. Fremont Box 3 Stockton. CA 95202

RAF1 Kayak School Mike Snead P.O. Box 176

Vallecito. CA 95251 Humboldt River Touring Club 650 Tenth St. Arcata, CA 95521

> Alpine West Tom Lovering 1021 R St. Sacramento. CA 95814

COLORADO

Colorado White Water Assoc. 4260 East Evans Ave. Denver. CO 80222

CSU Whitewater Club James Stohlquist. Rep. Activities Ctr. Box 411 Colo. State University Ft. Collins. CO 80523

Aspen Kayak School P.O. Box 1520 Aspen. CO 81611

CONNECTICUT

Riverrun Outfitters, Ioc. Falls Village. CT 06031

Appalachian Mt. Club Appalachian Mt. Club
Connecticut Chapter
David Sinish. Chmn. WW Comm.
20 Dyer Ave.
Collinsville. CT 06059
Great World
W. B. Haskell, Jr.
250 Farms Village Ret

W. B. Haskell, Jr.
250 Farms Village Rd.
W Simsbury, 106092
Greenwich High School Kayak Club
David J. Muxhay. Adv.
10 Hillside Rd.
Grounish CTO(8.20) Greenwich. CT06830 Main Stream Canoes

Joe & Jack Casey Rt. 44 Barkhamstud. CT 06059

DELAWARE

Buck Ridge Ski Club Mark Fawcett R.D. I Box 426 E Arthur Dr.. Wellington Hills Hockessin, DE 19707

Wilmington Trail Club Fred Pickett. Canoe Inverness Circle, Apt. M-9 Newcastle. DE 19720

EU FOOK HOTA

Indian Farm Ramone S. Eaton P.O. Box 395 Anthony. FL 32617

GEORGIA
Georgia Canoeing Association
Box 7023
Atlanta. GA 30309

Camp Mark-Wood 3245 Nancy Creek Rd. N.W. Atlanta. GA 30327 IDAHO

Idaho State University Outdoor Program Ron Watters Box 9024 ISU Pocatello. ID 83209 Idaho Alpine Club Whitewater Coordinator P.O. Box 2885 Idaho Falls. ID 83401

ILLINOIS

Northern Prairie Outfitters Randy Hendee 206 N. W. Highw**ay** Fox River Grove. **IL 60021**

> Chicago Whitewater Assoc. Pamela Allen
> 5460 S. Ridgewood Ct.
> Chicago, IL 60629
> Belleville

Linda Seaman Tansil, Rep. No. 3 Oakwood Belleville, IL 62223

Wildcountry Wilderness Outfitters 516 N. Main St. Bloomington, IL 61701

INDIANA Hoosier Canoe Club Dave Ellix 4770 Kessler N. Dr. Indianapolis, IN 46208

Kekionga Voyageurs E. Hrinz Wahl 1818 Kensington Blvd. Ft. Wayne. IN 46805

KENTUCKY
The Viking Canoe Ray Hinton 1951 Lewiston Dr. Louisville. KY 40216

Four Rhm Cance Club Brad & Betty Arterburn 523 Alben Barkley Dr. Paducah. KY 42001

SAGE—School of Outdoors 209E High St. Lexington, KY 40507

LOUISIANA Bayon Haystackers Susie Latham 624 Moss St. New Orleans. LA 70119

MALNE

Mattawamkeng Wilderness Park Robt. Kelly. Park Mgr. P.O. Box 104 Mattawamkeag. ME04459

Penobscot Paddle & Chowder Society William F. Steams Box 121

Stillwater. ME04489 Sunrise County Cance Exped. Grove. ME04638

Terrapin Trail Club Bx. 18 Student Union Bldg. U. of Maryland College Park. MD 20742

Potomac River Paddlers Sea Scout 1775 lim Hill 18505 Kingshill Rd Germantown, MD 20767

Baltimore Kayak Club Al Karasa 1099 Tollgate Rd.. Belair, MD 21014

American WHITEWATER

AWA Affiliates, continued

MARYLAND (Cour.

Monocacy Owe Club Box 1083 Frederick, MD 21701

Mason-Dixon Canoe Cruisers Ron Shanholtz 222 Pheasant Ti Hagerstown, MD 21740

MASSACHUSETTS Hampahire College Outdoors

Eric M. Evans Amherst, MA 01002

Experiment with Travel Inc. Box 2452 281 Franklin St

Springfield. MA 01101 Kayak & Canoe Club of Boston Harry Zane 156 High St. Medford, MA 02155

MICHIGAN

Raw Strength & Courage Kayakers Jerry Gluck 2185 Mershon Dr. Ann Arbor. MI 48103

MINNESOTA BIG Water Associates Rick Gustafson 10009 Oxborough Rd. Bloomington, MN 55437

Cascadors Canno & Kayak Club 3128 W. Calb

Minneapolis. MN 554

MISSISSIPPI

MSUBEE Canoe Club 3 Prospect Pl. Starkville, MS 39759

Arnold Whitewater Assoc. John J. Schuh, Pres. 490 Pine Ct. Arnold, MO 63010

Meramec River Canoe Club Earl G. Biffle 26 Lake Rd. Fenton, MO 63026

Central Missouri State University Outing Club Dr. O. Hawkstey, Re Warrensburg. MO 64093

Ozark Wilderness Waterways Club Janet Alexander 4510 N.E. 50th Kansas City. MO 64119

Kamikaze Canoe & Kayak Club Dave Smallwood Box 1261 Jefferson City. MO 65101

Student Life Wilderness Adventures 18 Read Hall University of Missouri Columbia. MO 65201

NEW HAMPSHIRE

Appalachian Mt. Club New Hampshire Chapter Holly Anderson 167 Berkdale Rd. Bedford, NH 03102

Ledyard Canoe Club Steve Ruhle Robinson Hall Hanover. NH 03755

NEW HAMPSHIRE (Cont.)

Nulhegan Paddle Co. David Hawkins Box 381 N. Stratford, NH 03590 Mt. Washington Valley Canoe & Kayak Club Box 675

N. Conway, NH 03860

NEW JERSEY

Murray Hill Canoe Club Carol Maclennan Bell Labs. Rm. 1 E-436 Murray Hill. NJ 07974

> Mohawk Canoe Club Dartery Lewis 455 W. State St. Trenton, NJ 08618

Rutgers University Outdoor Club RPO 2913 New Brunswick. NJ 08903

NEW YORK

Appalachian Mt. Club New York Chapter Emilie Pentz 145 Sheridan Ave. Roselle Park. NJ 07204

Kayak and Canoe Club of New York Ed Alexander. Rep. 6 Winslow Ave. East Brunswick. NJ 08816

> Sport Rites Club Inc. K. T. LeClair Brayton Park Ossining, NY 10562

Adirondack Mt. Club Schenectady Chapter Betty Lou Bailey Schuyler 16, Netherlands Village Schenectady. NY 12308

Niagara Gorge Kayak Club Doug Bushnell 41-17th St. Buffalo. NY 14213

Adirondack Mt. Club **Genesee** Valley Chapter John A. Robertson. Jr. 581 Lake Rd. Webster. NY 14580

NORTH CAROLINA

Carolina Canoe Club Tom Erikson Box 9011

Watauga Whitewater Club Richard Furman, M.D. State Farm Rd. Boone. NC 28607

Nantahala Outdoor Center Payson Kennedy

Star Rt. Bx 68 Bryson City. NC 28713

River Transit Authority Amber Alley Chapel Hill. NC 27514 & 700 West Market Greensboro. NC 27402

Haw River Paddle Shop 211 E. Main St. Carrboro. NC 27510

River Runners' Emporium 3535 Hillsboro Rd. Durham, NC 27705

Venture Program John B. Griffin Cone Univ. Ctr. UNCC Charlotte, NC 28223 SOUTH CAROLINA USC Whitewater Club Box 80090

University of South Carolina Columbia, SC 29033

OHIO

Columbus Council, AYH Joe Feiertag 1421 **Inglis** Ave. Columbus. OH43212

Toledo Area Canoe & Kayak John Dunn 5837 Elden St Sylvania. OH43560

> Pack & Paddle Ronald J. Morgan 4082 Erie St Willoughby, OH 44094

Keel-Haulers Canoe Club John A. Kobak, Rep. 1649 Allen Dr. Westlake. OH 44145

Cuyahoga Canoe Club Chuck A. Tummonds Box T Mantua. OH 44255

OREGON

Oregon Rafting Club Joe Chappell Rte. 1, Box 300 Hubbard, OR 97032:

Sundance Expeditions, Inc. 665 Hunt La. Grants Pass. OR 97526

Willamette Kayak & Canoe Club P.O. 1062 Corvallis, OR 97330

PENNSYLVANIA

Canoe, Kayak & Salling Craft Douglass Ettinger 701 Wood Street Wilkinsburg, PA 15221

Slippery Rock State College L. H. Heddleston. Director Student Activities & Recreation Slippery Rock. PA 16057

Allegheny Canoe Club Walter Pilewski 755 W. Spring St. Titusville, PA 16354

Penn State Outing Club Jonn R. Sweet 118 S. Buckhout St. State College. PA 16801

Wildwater Boating Club Robert L. Martin LD 179 Bellefonte. PA 16823

Conewago Canne Club George F. Figdore 2267 Willow Rd. York, PA 17404

Allentown Hiking Club Bill Bevan 124 S. 16th Sf Allentown. PA 18102

Appalachian **Trail** Outfitters 29 S. Main St. Doylestown. PA 18901

Appalachian Mt. Club Delaware Valley Chapter Fred Cox 476 Kerr La. Springfield, PA 19064

Philadelphia Canoe Club Dr. David Knight 4900 Ridge Ave. Philadelphia. PA 19128

AWA Affiliates, continued

PENNSYLVANIA (Cont.)

Dauber Canoe & Kayak Walter Daub Box 59 Washington Crossing, PA 18977

SOUTH CAROLINA USC Whitewater **Club** Box 80090 Univ. of South Carolina Columbia. SC 29033

TENNESSEE

Tennessee Scenic Rivers **Assoc** Box 3104 Nashville. TN 37219

Sewanee Ski & Outing Club Hugh Caldwell University of the Cnuth Sewance. TN 37375

The **Baylor** School Chattanooga, TN 37401

Tennessee Valley Canoe Cub Geo. M. Marterre Box 11125 Chattanooga. TN 37401

Footsloggers
P.O. Box 3865 CRS
2220 N. Roan St.
Johnson City, TN 37601

E. Tenn. WW Club Richard Cammage Oak Ridge. TN 37830

Chota Canoe Subsection Box 8270 University Sta. Knoxville, TN 37916

P.O. Box 4523 Memphis. TN 38104

TEXAS

Dorm River Club-Dallas Paul W. McCarty 3104 Wingren Irving. TX 75062

Greater Fort Worth Sierra Club River Touring **Section** P.O. Box 1057 Fort Worth. TX 76101

> Texas Explorers Club Bob Burleson. Rep. Box 844 Temple. TX 76501

Explorer Post 425 A. B. Millett 708 Mercedes Ft. Worth. TX 76126

Kayaks Limited Larry A. Dailey 4110 Markham St. Houston. TX 77027

R & M Outfitters Maurene Hufford 2534 Teague Houston, TX 77080

TMI Canoe **Club**Tom Sloan II
College Blvd.
San Antonio. TX 78204

Texas Whitewater Association Thomas B. Cowden P. O. Box 5264 Austin, TX 78763 TEXAS (Cont.)

Trinity **Univ.** Canoe Club Major Sharpe McCollough Bx 180. 715 Stadium Dr. San Antonio. TX 78284

UTAH

Wasatch Whitewater Assoc. Chris Arthur S elius 161 South 11 East Salt Lake City. UT 84102

VERMONT

Northeast Canoe Mfg. Ed Parenteau Sr. 284 Indian Point St. Newport, VT 05855

Mariboro College Outdoor Program Malcom Moore Marlboro. VT 05344

Northern Vermont Canoe **Cruisers**Edwin Amidon, Jr.
Hills Pt. Rd.
Charlotte. T15445

West River Canoe Route 100 South E. Jamaica. V'T 05343

Pamela C. Peckham Box 649 Johnson, VT 05656

Brattleboro Outing Club Donald L. Kinley 1 Dracon PI. Brattleboro. VT 05301

VIRGINIA

Canoe Cruisers Assoc. John C. Hefti 1515 N. Buchanan St. Arlington, VA 22205

Coastal Canoeists, Inc. Larry & Hope Gross P.O. Box 566 Richmond. VA 23204

Explorer Post 999

Blue Ridge Voyageurs Ralph T. Smith 8119 Hillcrest Dr. Manassas. VA 22110

WASHINGTON

Washington Kayak Club P.O. Box 24204 Seattle. WA 48124

White Water Sports Larry Innieson 6820 Roosevelt Way N.E. Seattle, WA 98115

The **Tacoma Mountaineers**Kayak & Canoe Comm.

Kayak & Canoe Comm. Bob Hammond 3512 Crystal Spg. Tacoma. WA 98466

Desert Kayak & Canoe Club Larry E. Thomas 450 Mateo Ct.. Richland. WA 99352 WEST VIRGINIA

West Virginia Wildwater Assoc. Idair Smookler 2737 Daniels Ave. S. Charleston. WV 25303

WISCONSIN

Wisconsin Hoofers Outing Club Wisconsin Union Directorate 800 Langdon St. Madison. WI 53706

Wolf River Canoe Club R: Charses Steed Wolf River Lodge White Lake, WI 54491

Fond Du Lac Voyageurs Canoe Club 114 Harrison PI. Fond Du Lac. W1 54935

Sierra Club John Muir Chapter Rosemary & David Wehnes 2604 N. Murray Ave., #107 Milwaukee. WI 53211

WYOMING

MING
Western Wyoming Kayak Club
Donald L. Hahn
General Delivery
Wilson, WY 83014

CANADA

Canadian Whitewater **Affiliation**Don Galbraith
436 Stinson Ave.
Burlington, Ontario
Canada L7R 2W9

Canot-Kayak-Camping L'Aval Jacques Cassista 1600 Rue St.-Denis Ste.-Foy Quebec, Canada

Edmonton Whitewater Paddlers P.O. Box 4117 S. Edmonton P.O. Edmonton. Alberta Canada T6E-458

Manitoba Kayaking **Assoc.**Wray Pearce
307 Nightingale Rd.
Winnipeg. Manitoba
Canada R3J 3G6

North West **Voyageurs** 10922 88th **Ave**. Edmonton. Alberta Canada

AUSTRALIA

Southern **Cross** Canoe Club Barry Ellis 11 **Hewish** Rd.. Croydon victoria. **Australia**

Riverina College of Adv. Educ. P.O. Box 588 Wagga Wagga N.S.W. 2650

NEW ZEALAND

Gisborne Canoe & Tramping Club, Inc. Tony Geard Box 289 Gisborne. New Zealand

SWITZERLAND

Kanu Club Zurich Otto Kosma 8008 Zurich Dufour Str. 3 Switzerland