Rapid name (s)	River, section (s)	State	Level
Rigormortis West Coast	Clear Cr. Cyn	CO	900
Jacob's Ladder	Payette, N. Fk.	ID	3500
Nutcracker	Payette, N. Fk.	ID	1800-2000



American Whitewater was organized in 1957 to protect and enhance the recreational enjoyment of whitewater sports in America. American Whitewater is dedicated to safety, education, access, and the preservation and conservation of America's Whitewater Rivers.

For more information or to join, contact American Whitewater P.O. Box 636 Margaretville, NY 12455 914-586-2355

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FOR ON-THE-SCENE RESCUE INFORMATION

American Whitewater Safety Flashcards are compact, waterproof and cover a wide variety of whitewater rescue/emergency wilderness procedures. They can really make a difference in a crisis. Each set is \$8.95 + \$1 postage. Bulk discounts are available.

Be Prepared — Carry A Set In Your Boat!

Safety Code of American Whitewater

(Formerly, The American Whitewater Affiliation)

Four Decades of Service to the Paddlers of America



Our mission is to conserve and restore America's whitewater resources and to enhance opportunities to enjoy them safely.

Adopted 1959 Revised 1998

Lee Belknap Safety Chairman

Charlie Walbridge Safety Vice-chairman

> Mac Thornton Legal Advisor

Rich Bowers

Executive Director

This code has been prepared using the best available information and has been reviewed by a broad cross section of whitewater experts. The code, however, is only a collection of guidelines; attempts to minimize risks should be flexible, not constrained by a rigid set of rules. Varying conditions and group goals may combine with unpredictable circumstances to require alternate procedures. This code is not intended to serve as a standard of care for commercial outfitters or guides.

For additional copies please write to: American Whitewater PO Box 636, Margaretville, NY 12455 email: 74663.2104@compuserve.com

I. PERSONAL PREPAREDNESS AND RESPONSIBILITY

- Be a competent swimmer, with the ability to handle yourself underwater.
- Wear a life jacket. A snugly-fitting vest-type life preserver offers back and shoulder protection as well as the flotation needed to swim safely in whitewater.
- Wear a solid, correctly-fitted helmet when upsets are likely. This
 is essential in kayaks or covered canoes, and recommended for
 open canoeists using thigh straps and rafters running steep drops.
- Do not boat out of control. Your skills should be sufficient to stop
 or reach shore before reaching danger. Do not enter a rapid unless
 you are reasonably sure that you can run it safely or swim it without injury.
- Whitewater rivers contain many hazards which are not always easily recognized. The following are the most frequent killers:
 - A. HIGH WATER. The river's speed and power increase tremendously as the flow increases, raising the difficulty of most rapids. Rescue becomes progressively harder as the water rises, adding to the danger. Floating debris and strainers make even an easy rapid quite hazardous. It is often misleading to judge the river level at the put in, since a small rise in a wide, shallow place will be multiplied many times where the river narrows. Use reliable gauge information whenever possible, and be aware that sun on snowpack, hard rain, and upstream dam releases may greatly increase the flow.
 - B. COLD. Cold drains your strength and robs you of the ability to make sound decisions on matters affecting your survival. Cold water immersion, because of the initial shock and the rapid heat loss which follows, is especially dangerous. Dress appropriately for bad weather or sudden immersion in the water. When the water temperature is less than 50 degree F., a wetsuit or drysuit is essential for protection if you swim. Next best is wool or pile clothing under a waterproof shell. In this case, you should also carry waterproof matches and a change of clothing in a waterproof bag. If, after prolonged exposure, a person experiences uncontrollable shaking, loss of coordination, or difficulty speaking, he or she is hypothermic, and needs your assistance.
 - C. STRAINERS. Brush, fallen trees, bridge pilings, undercut rocks or anything else which allows river current to sweep through can pin boats and boaters against the obstacle. Water pressure on anything trapped this way can be overwhelming. Rescue is often extremely difficult. Pinning may occur in fast current, with little or no whitewater to warn of the danger.
 - D. DAMS, WIERS, LEDGES, REVERSALS, HOLES, AND HYDRAULICS. When water drops over a obstacle, it curls back on itself, forming a strong upstream current which may be capable of holding a boat or swimmer. Some holes make for excellent sport. Others are proven killers. Paddlers who cannot recognize the difference should avoid all but the smallest holes. Hydraulics around man-made dams must be treated with utmost respect regardless of their height or the level of the river. Despite their seemingly benign appearance, they can create an almost escape-proof trap. The swimmer's only exit from the "drowning machine" is to dive below the surface when the downstream current is flowing beneath the reversal.
 - E. BROACHING. When a boat is pushed sideways against a rock

by strong current, it may collapse and wrap. This is especially dangerous to kayak and decked canoe paddlers; these boats will collapse and the combination of indestructible hulls and tight outfitting may create a deadly trap. Even without entrapment, releasing pinned boats can be extremely time-consuming and dangerous. To avoid pinning, throw your weight downstream towards the rock. This allows the current to slide harmlessly underneath the hull.

- Boating Alone is discouraged. The minimum party is three people or two craft.
- Have a frank knowledge of your boating ability, and don't attempt rivers or rapids which lie beyond that ability.
 - A. Develop the paddling skills and teamwork required to match the river you plan to boat. Most good paddlers develop skills gradually, and attempts to advance too quickly will compromise your safety and enjoyment.
 - B. Be in good physical and mental condition, consistent with the difficulties which may be expected. Make adjustments for loss of skills due to age, health, fitness. Any health limitations must be explained to your fellow paddlers prior to starting the trip.
- Be practiced in self-rescue, including escape from an overturned craft. The Eskimo Roll is strongly recommended for decked boaters who run rapids Class IV or greater, or who paddle in cold environmental conditions.
- Be trained in rescue skills, CPR, and first aid with special emphasis on the recognizing and treating hypothermia. It may save your friend's life.
- 10. Carry equipment needed for unexpected emergencies, including foot wear which will protect your feet when walking out, a throw rope, knife, whistle, and waterproof matches. If you wear eyeglasses, tie them on and carry a spare pair on long trips. Bring cloth repair tape on short runs, and a full repair kit on isolated rivers. Do not wear bulky jackets, ponchos, heavy boots, or anything else which could reduce your ability to survive a swim.
- 11. Despite the mutually supportive group structure described in this code, individual paddlers are ultimately responsible for their own safety, and must assume sole responsibility for the following decisions:
 - A. The decision to participate on any trip. This includes an evaluation of the expected difficulty of the rapids under the conditions existing at the time of the put-in.
 - B. The selection of appropriate equipment, including a boat design suited to their skills and the appropriate rescue and survival gear.
 - C. The decision to scout any rapid, and to run or portage according to their best judgment. Other members of the group may offer advice, but paddlers should resist pressure from anyone to paddle beyond their skills. It is also their responsibility to decide whether to pass up any walk-out or take-out opportunity.
 - D. All trip participants should consistently evaluate their own and their group's safety, voicing their concerns when appropriate and following what they believe to be the best course of action. Paddlers are encouraged to speak with anyone whose actions on the water are dangerous, whether they are a part of your group or not.

II. BOAT AND EQUIPMENT PREPAREDNESS

- Test new and different equipment under familiar conditions before relying on it for difficult runs. This is especially true when adopting a new boat design or outfitting system. Low volume craft may present additional hazards to inexperienced or poorly conditioned paddlers.
- Be sure your boat and gear are in good repair before starting a trip. The more isolated and difficult the run, the more rigorous this inspection should be.
- Install flotation bags in non-inflatable craft, securely fixed in each end, designed to displace as much water as possible. Inflatable boats should have multiple air chambers and be test inflated before launching.
- Have strong, properly sized paddles or oars for controlling your craft. Carry sufficient spares for the length and difficulty of the trip.
- Outfit your boat safely. The ability to exit your boat quickly is an essential component of safety in rapids. It is your responsibility to see that there is absolutely nothing to cause entrapment when coming free of an upset craft. This includes:
 - A. Spray covers which won't release reliably or which release prematurely.
 - B. Boat outfitting too tight to allow a fast exit, especially in low volume kayaks or decked canoes. This includes low hung thwarts in canoes lacking adequate clearance for your feet and kayak footbraces which fail or allow your feet to become wedged under them.
 - C. Inadequately supported decks which collapse on a paddler's legs when a decked boat is pinned by water pressure. Inadequate clearance with the deck because of your size or build.
 - D. Loose ropes which cause entanglement. Beware of any length of loose line attached to a whitewater boat. All items must be tied tightly and excess line eliminated; painters, throw lines, and safety rope systems must be completely and effectively stored. Do not knot the end of a rope, as it can get caught in cracks between rocks.
- Provide ropes which permit you to hold on to your craft so that it may be rescued. The following methods are recommended:
 - A. Kayaks and covered canoes should have grab loops of 1/4" + rope or equivalent webbing sized to admit a normal sized hand. Stern painters are permissible if properly secured.
 - B. Open canoes should have securely anchored bow and stern painters consisting of 8 - 10 feet of 1/4" + line. These must be secured in such a way that they are readily accessible, but cannot come loose accidentally. Grab loops are acceptable, but are more difficult to reach after an upset.
 - C. Rafts and dories may have taut perimeter lines threaded through the loops provided. Footholds should be designed so that a paddler's feet cannot be forced through them, causing entrapment. Flip lines should be carefully and reliably stowed.
- Know your craft's carrying capacity, and how added loads affect boat handling in whitewater. Most rafts have a minimum crew size which can be added to on day trips or in easy rapids. Carrying more than two paddlers in an open canoe when running rapids is not recommended.
- Car top racks must be strong and attach positively to the vehicle.
 Lash your boat to each crossbar, then tie the ends of the boats

directly to the bumpers for added security. This arrangement should survive all but the most violent vehicle accident.

III. GROUP PREPAREDNESS AND RESPONSIBILITY

- Organization. A river trip should be regarded as a common adventure by all participants, except on commercial instructional or guided trips as defined below. Participants share the responsibility for the conduct of the trip, and each participant is individually responsible for judging his or her own capabilities and for his or her own safety as the trip progresses. In other words, no person is responsible for the safety of other persons on the trip. Participants are encouraged (but are not obligated) to offer advice and guidance for the independent consideration and judgment of others.
- 2. River Conditions. The group should have a reasonable knowledge of the difficulty of the run. Participants should evaluate this information and adjust their own plans accordingly. If the run is exploratory or no one is familiar with the river, maps and guidebooks, if available, should be examined. The group should secure accurate flow information; the more difficult the run, the more important this will be. Be aware of possible changes in river level and how this will affect the difficulty of the run. If the trip involves tidal stretches, secure appropriate information on tides.
- 3. Group equipment should be suited to the difficulty of the river. The group should always have a throw line available, and one line per boat is recommended on difficult runs. The list may include: carabiners, prussick loops, first aid kit, flashlight, folding saw, fire starter, guidebooks, maps, food, extra clothing, and any other rescue or survival items suggested by conditions. Each item is not required on every run, and this list is not meant to be a substitute for good judgment.
- 4. Keep the group compact, but maintain sufficient spacing to avoid collisions. If the group is large, consider dividing into smaller groups or using the "Buddy System" as an additional safeguard. Space yourselves closely enough to permit good communication, but not so close as to interfere with one another in rapids.
 - A. A point paddler sets the pace. When in front, do not get in over your head. Never run drops when you cannot see a clear route to the bottom or, for advanced paddlers, a sure route to the next eddy. When in doubt, stop and scout.
 - B. Keep track of all group members. Each boat keeps the one behind it in sight, stopping if necessary. Know how many people are in your group and take head counts regularly. No one should paddle ahead or walk out without first informing the group. Paddlers requiring additional support should stay at the center of a group, and not allow themselves to lag behind in the more difficult rapids. If the group is large and contains a wide range of abilities, a "Sweep Boat" may be designated to bring up the rear.
 - C. Courtesy. On heavily used rivers, do not cut in front of a boater running a drop. Always look upstream before leaving eddies to run or play. Never enter a crowded drop or eddy when no room for you exists. Passing other groups in a rapid may be hazardous: it's often safer to wait upstream until the group ahead has passed.
- 5. Float plan. If the trip is into a wilderness area or for an ex-

tended period, plans should be filed with a responsible person who will contact the authorities if you are overdue. It may be wise to establish checkpoints along the way where civilization could be contacted if necessary. Knowing the location of possible help and preplanning escape routes can speed rescue.

- Drugs. The use of alcohol or mind altering drugs before or during river trips is not recommended. It dulls reflexes, reduces decision making ability, and may interfere with important survival reflexes.
- 7. Commercial instructional or Guided Trips. In contrast to the common adventure trip format, in these trip formats, a professional (i.e., paid) instructor or guide assumes some of the responsibilities normally exercised by the group as a whole, as appropriate under the circumstances. These formats recognize that commercial instructional or guided trips may involve participants who lack significant experience in whitewater, and who wish to place themselves under the care of professionals. However, as a participant acquires experience in whitewater, he or she takes on increasing responsibility for his or her own safety, in accordance with what he or she knows or should know as a result of that increased experience. Also, as in all trip formats, every participant must realize and assume the risks associated with the serious hazards of whitewater rivers. It is advisable for professional instructors and guides or their employers to acquire trip or personal liability insurance:
 - A. A "commercial instructional trip" is characterized by a commercial (i.e., for-profit) enterprise and a paid instructor, where the primary purpose of the trip is to teach boating skills, and which is conducted for a required fee. This does not include a non-profit organization conducting instruction with unpaid volunteers.
 - B. A "commercial guided trip" is characterized by a commercial enterprise and a paid guide conducting trips for a required fee.

IV. GUIDELINES FOR RIVER RESCUE

- Recover from an upset with an Eskimo roll whenever possible. Evacuate your boat immediately if there is imminent danger of being trapped against rocks, brush, or any other kind of strainer.
- 2. If you swim, hold on to your boat. It has much flotation and is easy for rescuers to spot. Get to the upstream end so that you cannot be crushed between a rock and your boat by the force of the current. Persons with good balance may be able to climb on top of a swamped kayak or flipped raft and paddle to shore.
- Release your craft if this will improve your chances, especially
 if the water is cold or dangerous rapids lie ahead. Actively attempt self-rescue whenever possible by swimming for safety.
 Be prepared to assist others who may come to your aid.
 - A. When swimming in shallow or obstructed rapids, lie on your back with feet held high and pointed downstream. Do not attempt to stand in fast moving water; if your foot wedges on the bottom, fast water will push you under and keep you there. Get to slow or very shallow water before attempting to stand or walk. Look ahead! Avoid possible pinning situations including undercut rocks, strainers, downed trees, holes, and other dangers by swimming away from them.
 - B. If the rapids are deep and powerful, roll over onto your stom-

ach and swim aggressively for shore. Watch for eddies and slackwater and use them to get out of the current. Strong swimmers can effect a powerful upstream ferry and get to shore fast. If the shores are obstructed with strainers or under cut rocks, however, it is safer to "ride the rapid out" until a safer escape can be found.

- 4. If others spill and swim, go after the boaters first. Rescue boats and equipment only if this can be done safely. While participants are encouraged (but not obligated) to assist one another to the best of their ability, they should do so only if they can, in their judgment, do so safely. The first duty of a rescuer is not to compound the problem by becoming another victim.
- 5. The use of rescue lines requires training; uninformed use may cause injury. Never tie yourself into either end of a line without a reliable quick-release system. Have a knife handy to deal with unexpected entanglement. Learn to place set lines effectively, to throw accurately, to belay effectively, and to properly handle a rope thrown to you.
- When reviving a drowning victim, be aware that cold water
 may greatly extend survival time underwater. Victims of hypothermia may have depressed vital signs so they look and feel
 dead. Don't give up; continue CPR for as long as possible without compromising safety.

V. UNIVERSAL RIVER SIGNALS

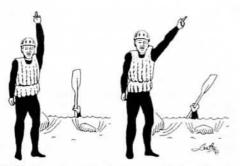
These signals may be substituted with an alternate set of signals agreed upon by the group.



STOP: Potential hazard ahead. Wait for "all clear" signal before proceeding, or scout ahead. Form a horizontal bar with your outstretched arms. Those seeing the signal should pass it back to others in the party.



HELP/EMERGENCY: Assist the signaler as quickly as possible. Give three long blasts on a police whistle while waving a paddle, helmet or life vest over your head. If a whistle is not available, use the visual signal alone. A whistle is best carried on a lanyard attached to your life vest.



ALL CLEAR: Come ahead (in the absence of other directions proceed down the center). Form a vertical bar with your paddle or one arm held high above your head. Paddle blade should be turned flat for maximum visibility. To signal direction or a preferred course through a rapid around obstruction, lower the previously vertical "all clear" by 45 degrees toward the side of the river with the preferred route. Never point toward the obstacle you wish to avoid.



I'm OK: "I'm OK and not hurt, are you?" While holding the elbow outward toward the side, repeatedly tap the top of your head. Whenever this signal is seen, it should be answered with the same signal so that all involved know that everything is OK.

VI. INTERNATIONAL SCALE OF RIVER DIFFICULTY

This is the American version of a rating system used to compare river difficulty throughout the world. This system is not exact; rivers do not always fit easily into one category, and regional or individual interpretations may cause misunderstandings. It is no substitute for a guidebook or accurate first-hand descriptions of a run.

Paddlers attempting difficult runs in an unfamiliar area should act cautiously until they get a feel for the way the scale is interpreted locally. River difficulty may change each year due to fluctuations in water level, downed trees, recent floods, geological disturbances, or bad weather. Stay alert for unexpected problems!

As river difficulty increases, the danger to swimming paddlers becomes more severe. As rapids become longer and more continuous, the challenge increases. There is a difference between running an occasional Class IV rapid and dealing with an entire river of this category. Allow an extra margin of safety between skills and river ratings when the water is cold or if the river itself is remote and inaccessible.

THE SIX DIFFICULTY CLASSES:

Class I: Easy. Fast moving water with riffles and small waves. Few obstructions, all obvious and easily missed with little training. Risk to swimmers is slight; self-rescue is easy.

Class II: Novice. Straightforward rapids with wide, clear channels which are evident without scouting. Occasional maneuvering may be required, but rocks and medium sized waves are easily missed by trained paddlers. Swimmers are seldom injured and group assistance, while helpful, is seldom needed. Rapids that are at the upper end of this difficulty range are designated "Class II+".

Class III: Intermediate. Rapids with moderate, irregular waves which may be difficult to avoid and which can swamp an open canoe. Complex maneuvers in fast current and good boat control in tight passages or around ledges are often required; large waves or strainers may be present but are easily avoided. Strong eddies and powerful current effects can be found, particularly on large-volume rivers. Scouting is advisable for inexperienced parties. Injuries while swimming are rare; self-rescue is usually easy but group assistance may be required to avoid long swims. Rapids that are at the lower or upper end of this difficulty range are designated "Class III-" or "Class III+" respectively.

Class IV: Advanced. Intense, powerful but predictable rapids requiring precise boat handling in turbulent water. Depending on the character of the river, it may feature large, unavoidable waves and holes or constricted passages demanding fast maneuvers under pressure. A fast, reliable eddy turn may be needed to initiate maneuvers, scout rapids, or rest. Rapids may require "must" moves above dangerous hazards. Scouting may be necessary the first time down. Risk of injury to swimmers is moderate to high, and water conditions may make self-rescue difficult. Group assistance for rescue is often essential but requires practiced skills. A strong Eskimo roll is highly recommended. Rapids that are at the upper end of this difficulty range are designated "Class IV-" or "Class IV+" respectively.

Class V: Expert. Extremely long, obstructed, or very violent rapids which expose a paddler to added risk. Drops may contain large, unavoidable waves and holes or steep, congested chutes with complex, demanding routes. Rapids may continue for long distances between pools, demanding a high level of fitness. What eddies exist may be small, turbulent, or difficult to reach. At the high end of the scale, several of these factors may be combined. Scouting is Recommended but may be difficult. Swims are dangerous, and rescue is often difficult even for experts. A very reliable Eskimo roll, proper equipment, extensive experience, and practiced rescue skills are essential. Because of the large range of difficulty that exists beyond class IV, Class 5 is an open ended, multiple level scale designated by Class 5.0, 5.1, 5.2, etc... Each of these levels is an order of magnitude more difficult than the last. Example: Increasing difficulty from class 5.0 to class 5.1 is a similar order of magnitude as increasing from class IV to Class 5.0.

Class VI: Extreme and Exploratory. These runs have almost never been attempted and often exemplify the extremes of difficulty, unpredictability and danger. The consequences of errors are very severe and rescue may be impossible. For teams of experts only, at favorable water levels, after close personal inspection and taking all precautions. After a Class VI rapids has been run many times, Its rating may be changed to an appropriate Class 5.x rating.

Safety Code of American Whitewater INTERNATIONAL SCALE OF RIVER DIFFICULTY -STANDARD RATED RAPIDS

Below is a list of examples of commonly run rapids that fit each of the classifications. Rapids of a difficulty similar to rapids on this list are rated the same. Rivers are also rated using this scale. An overall river rating should take into account many factors including the difficulty of individual rapids, remoteness, hazards, etc. Each rapid is rated at a specific range of levels. Note that under some circumstances a paddler may find that similarly rated rapids seem to differ an extraordinary amount due to unusual factors that may include boat type, weather, fatigue, and limited experience on certain types of whitewater.

Rating Scale Committee:

Safety Chairman
Safety Vice-Chairman
Legal Advisor
Executive Director
Rating Scale Committe

Joe Greiner	Rating Scale Committe					
Rapid name (s) Class I	River, section (s)	State	Level			
North East						
Ramcat	Youghiogheny, Middle	PA	1.8-2'			
Piddley	Youghiogheny, Lower	PA	1.8-2'			
South East						
Powhite Ledges	James, Downtown Richmond	VA	5'			
Class II						
North East						
Staircase	Shenandoah	WV	3.5'			
Lambertville Rapid	Delaware	PA/NJ	Sum-2'			
Rocky Mountain						
Salida	Arkansas, Salida Race Course	CO	med			
South East						
Delabar's Rock	Nantahala, Gorge	NC	3.25			
Needmore	Little Tennessee River	NC	1000			
Pony pasture	James, Downtown Richmond	VA	5			
West Coast						
New or Main Play Wave	Payette, Main	ID	reg			
San Juan Class II+	American, Lower	CA	Normal			
North East						
Camel-Walrus	Youghiogheny, Lower	PA	1.8-2*			
Bull falls	Shenandoah	WV	3.5			
Skinner's Falls	Delaware	PA/NJ	Summer (1200)			
Rocky Mountain						
Thibodeau	Blackfoot	MT	1'			
Access No. 10 Rap	id Green	WY	.5'-1'			
Fool Hen	Flathead, N. Fk.	MT	1'-1.5'			
Spotted Horse	Hoback	WY	3"-6"			

Rapid name (s)	River, section (s)	State	Level
South East			
Patton's Run	Nantahala, Gorge	NC	3.25 (800)
West Coast			
S-Turn	Mokelumne, Electra Run	CA	600-2000
Row Boat	Cache Cr., Ramsey Run (Bear Cr. to Ramsey)	CA	450+
Class III -			
North East			
Dartmouth	Youghiogheny, Lower	PA	1.8-2'
Eddy Turn	Youghiogheny, Lower	PA	1.8-2'
Rocky Mountain	AND		
Smelter Rapids	Animas, Durango	CO	1000
Yankee Jim's Revenge	e Yellowstone	MT	3000-5000
South East			
Roller Coaster	Nolichucky Gorge	NC	1500-2000 (2-2.2')
Nemo	Emery	TN	1500-2000
Powerline	James, Downtown Richmond	2000	5'
West Coast			
Row Boat	Cache Cr., Ramsey Run	CA	450+
	(Bear Cr. to Ramsey)	C.i.	1501
Class III	, , , , , , , , , , , , , , , , , , , ,		
North East			
Dimple-Swimmers	Youghiogheny, Lower	PA	1.6-2
Railroad	Esopus Esopus	NY	Summer
Slalom Rapids	Tohickon cr.	PA	1.8
Entrance	Youghiogheny, Lower	PA	1.8'-2'
Zoar Gap	Deerfield, Fife Brook Sect.		900-1000
Railroad	Youghiogheny, Lower	PA	1.8'-3.5'
Rocky Mountain	roughlogheny, Lower	in	1.0-5.5
Raft Ripper	Arkansas, Browns Canyon	CO	1000-3"
Seven Steps	Arkansas, Browns Canyon	CO	2500
Pinball	Arkansas, Browns Canyon	CO	2500
Government Rapids	San Juan	UT	5000
Lunch Counter	Snake, Alpine Canyon	WY	10,000
Split Rock Rapid	Yellowstone	MT	3000-5000
South East	Tellowstolic	IVII	3000-3000
Nantahala Falls	Nantahala, Gorge	NC	3.25
Double Trouble	Ocoee, Middle	TN	1200-1600
Diamond Splitter	Ocoee, Middle	TN	1200-1600
Narrows	Chattooga, Sect. III	GA/SC	1.8'-2.3'
Grumpy/Snow White/		TN	1200-1600
Entrance	Georgi, Middle	111	1200-1000
Double Suck	Ocoee, Middle	TN	1200-1600
On the Rocks	Nolichucky Gorge	NC	1500-2000
On the Rocks	Nonemacky Gorge	NC	(2-2.2')
Wooten's Folly	Clear Creek	TN	2000-3000
Dick's Creek Ledge		GA/SC	
(First Ledge)	Chattooga, Sect. III	UNISC	1.8'-2.3'
West Coast			
Meat Grinder/	American, S. Fk.,	CA	1800
Quartermile	Chili Bar Run	CA	1000
Quarternine	CIIIII Dai Kuii		

Rapid name (s)	River, section (s)	State	Level	Rapid name (s)	River, section (s)	State	Level
Wolf Creek	Selway	ID	2.8'	Double Z	New River Gorge	WV	1-2.5'
Railroad Bridge Drop	Green River Gorge, Upper	WA	low-mod				(3500-5100
(Meadworks)				Wonder Falls	Big Sandy Cr., Lower	WV	6- 6.5
Trouble Maker,	American, S. Fk.,	CA	1000	(including approach			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
S Turn	Chili Bar Run			Rocky Mountain	,		
Oak Creek Falls	Deschutes	OR	mod	Zoom Flume	Arkansas, Browns Canyon	CO	2500
Rubber	Salmon, Middle Fork	ID	2'	Jaws	Flathead, M. Fk.	MT	.5'
Badger	Colorado, Grand Canyon	AZ	15-22000	Lunch Counter	Snake, Alpine Canyon	WY	6000
Triple Threat	American, S. Fk.,	CA	900-5000	Big Kahuna	Snake, Alpine Canyon	WY	10,000
	Chili Bar Run			Spotted Horse	Hoback	WY	1.5'
Rock and Roll /	Wenatchee, Lower	WA	6000	South East	- Tooler		1.0
Satan's Eyeball				Entrance	Chattooga, Sect. IV	GA/SC	1.8'-2.3'
				Frank Bell's	French Broad, Sect. 9	NC	2000-300
Class III+				Rattlesnake / Fang	Daddy's Creek Canyon	TN	700-3500
North East	CIC	11/1/	2525	Boat Buster	Wilson's Creek Gorge	NC	1-3"
Maze	Cheat Canyon	WV	2.5-3.5	West Coast	Wilson's Creek Gorge	INC	1-3
River's End	Youghiogheny, Lower	PA	1.8'-3.5'	Ned's Gulch	Merced, Red bud to	CA	1500
Big Nasty	Cheat Canyon	WV	3'-5'	Ned 8 Guich		CA	1500
Fayette Station	New River Gorge	WV	1-2.5'	Marsum	Suspension Bridge	33.7A	2000 220
CONTROL PROPERTY.			(3500-5100)	Mercury The Nozzle	Green River Gorge Green River Gorge, Upper	WA	2000-220
Gap Falls	Youghiogheny, Upper	MD	2-2.2	Rubber		WA	2000
Rocky Mountain	10000 A200 DA20				Salmon, Middle Fork	ID	5000
Zoom Flume	Arkansas, Browns Canyon		1000-3'	House Rock	Colorado, Grand Canyon	AZ	15-22,000
Snaggletooth	Delores	CO	med	Blossom Bar	Rogue R., Grave Cr.	OR	3000
Santa Rita Hole	Animas, Durango	CO	6000	CI IV	to Foster Bar		
Smelter Rapids	Animas, Durango	CO	6000	Class IV			
Black Mountain	Hoback	WY	3"-1.5"	North East		92.912042 F	122 (7272 a.c.)
South East				Fayette Station	New River Gorge	WV	0' (2600)
Broken Nose	Ocoee, Middle	TN	1200-1600	Sweet's Falls	Gauley, Upper	WV	2400-320
(Veg-O-Matic)				Mash (upper & lowe		WV	2800-320
Rooster Tail	Nolichucky Gorge	NC	2400-3000	Pure Screaming Hel		WV	2000-320
Quarter Mile	Nolichucky Gorge	NC	1500-2000	S Turn or Z-Drop	Tygart Gorge	WV	4.5'
S S S S S S S S S S S S S S S S S S S			(2-2.2')	Middle Keeney	New River Gorge	WV	1-2.5'
Table Saw	Ocoee, Middle	TN	1200-1600				(3500-510
Double Drop	Cumberland, Big South	TN	2000-2500	Rip Gorge	Penobscot R., W. Br.,	ME	2000-300
10 Develop Department - State (40)	Fork Gorge			(Ripogenoius Gorge) Ripogenoius Gorge		
The "El"	Cumberland, Big South	TN	2000-3000	Bastard	Youghiogheny, Upper	MD	2-2.2'
	Fork Gorge		(2.5')	Heinzerling (Pillow	Youghiogheny, Upper	MD	2-2.2'
West Coast				route)			
Trouble Maker,	American, S. Fk.,	CA	1800-2000	Rocky Mountain			
S Turn	Chili Bar Run			Number Four	Arkansas, The Numbers	CO	1000 (<3'
Blossom Bar	Rogue R., Grave Cr.	OR	1500	Sunshine	Arkansas, Royal Gorge	CO	2000-320
	top Foster Bar			Pine View Falls	Cache La Poudre,	CO	1500
Guard Rail	Skykomish, N. Fk.	WA	1500		Pine View Run		
House Rocks	Snoqualmie, M. Fk.,	WA	1500	Skull	Colorado, Westwater Cyn	UT	3500-500
House Rocks	Middle-Middle			Zoom Flume	Arkansas, Browns Canyon	CO	3000
Ledge 1	Green River Gorge	WA	1200	Number Three	Arkansas, The Numbers	CO	2000-250
Hance	Colorado, Grand Canyon	AZ	15-22,000				(3.5-4')
	op Skykomish, S. Fk.	WA	2-3000	Number Two	Arkansas, The Numbers	CO	2000-250
	Green River Gorge	WA	3000	S-01/2/4/1/5/5/5/5/5/5/5/5/5/5/5/5/5/5/5/5/5/5		0.3050	(3.5-4')
Pipeline Class IV	Green Kiver Gorge	WA	5000	South East			(2,2,1)
Class IV -				Corkscrew	Chattooga, Sect. IV	GA/SC	1.8'-2.3'
North East	It day Diverge	NV	5.5'	Seven Foot Falls	Chattooga, Sect. IV	GA/SC	1.8'-2.3'
Blue Ledge	Hudson River Gorge	NY	5.5'	Jared's Knee	Tellico, Ledges	TN	500-800
Staircase	Swift River	NH	1.5'-2'	Jaren S Kilee	reflico, Leuges	IIN	2'-3'
High Falls	Cheat Canyon	WV	3'-5'				2-3

Rapid name (s)	River, section (s)	State	Level	Rapid name (s)	River, section (s)	State	Level
Ten foot falls	Wilson's Creek Gorge	NC	6"	Tower	Russell Fork, Breaks	VA	800-1100
(Including Entrance)	Will Wild County Disch Schill Color and Schill			Watauga Falls	Watauga River Gorge	NC	-6"-0
West Coast							(200-400)
Chamberlain Falls	American, N. Fk.	CA	1000	Hydro, The Hole	Watauga River Gorge	NC	-6"-0
White Lightning	Cispus, Upper	WA	1200				(200-400)
Ned's Gulch	Merced, Red Bud	CA	2500	West Coast			
	to Suspension Bridge			Vortex	Kern, Forks of	CA	moderate
Granite	Colorado, Grand Canyon	AZ	15-22000	Starts with a bang	Cascade River	WA	mod
Hermit	Colorado, Grand Canyon	AZ	15-22000	and Bridge Drop			
Class IV+				Mushroom	Tuolumne, Cherry Cr.	CA	1200
North East				Lava Falls	Colorado, Grand Canyon	AZ	15-25,000
Pillow Rock	Gauley, Upper	WV	2400-3200	(Right Side)			
Meat Cleaver	Youghiogheny, Upper	MD	2-2.2'	Hounds Tooth	Payette, N. Fk.	ID	1800-2000
Rocky Mountain		EASTED 2		Screaming Left Turn	Payette, N. Fk.	ID	1800-2000
House Rock	Gallatin	MT	.5'-1'	<u>Class 5.1</u>			
Eye of the Needle	Piedra, Lower	CO	m/h	North East			
Number Four	Arkansas, The Numbers	CO	2000-2500	Big Splat	Big Sandy Cr., Lower	wv	6.2
rumoer rour	Timangus, The Trumbers		(3.5-4')	Rocky Mountain			
Sawtooth	Delores	CO	hi	Gore Rapids	Colorado, Gore Canyon	CO	1200
Number Five	Arkansas, The Numbers	CO	2000-2500	Double Suck	Clarks Fork	WY	1200
rumber 1 ive	Thankan The Transcers		(3.5-4')	Kirschbaum	Colorado, Gore Canyon	CO	1200
Number Six	Arkansas, The Numbers	CO	2000-2500	Pine Creek	Arkansas, Pine	CO	high-2900
rumber bix	rinansus, me rumbers		(3.5-4')		Creek Canyon		
South East			(5.5-17	Slaughterhouse Falls		CO	hi
Bull Sluice	Chattooga, Sect. III	GA/SC	1.8'-2.3'		Slaughterhouse run		
West Coast	Chattooga, Sect. 111	Orace	1.0 2.5	Lower Narrows	Cache La Poudre, Narrows	CO	2.5', 500
Husum Falls	White Salmon	WA	1200-1800	Upper Provo Falls	Provo	UT	300
Clavey Falls	Tuolumne	CA	900+	South East		.0.5.	= monton;
Lava Falls	Colorado, Grand Canyon	AZ	2000	Pinball	Little River Canyon	AL	6"-1"
(Right Side)	Colorado, Grand Canyon	AL	2000	Pinball	Overflow Creek	GA	1-1.5'
Boulder Drop	Skykomish	WA	5000	West Coast			
Surprise	Payette, S. Fk.	ID	2000	Straight Shot	American, S. Fk.,	CA	1000
Class V	rayette, S. rk.	110	2000		Golden Gate		
North East				Drain Pipe	American, S. Fk.,	CA	moderate
Insignificant	Gauley, Upper	wv	2400-3200	•.	Golden Gate	50.0	moderate
Lost Paddle	Gauley, Upper	wv	2400-3200	Jacob's Ladder	Payette, N. Fk.	ID	1200-2500
Cribworks	Penobscot R., W. Br.,	ME	2000-3000	Class 5.2		130000	1200 2000
CHOWOLKS	Ripogenoius Gorge	IVIL	2000-3000	Rocky Mountain			
Charlies Chaica the	Youghiogheny, Upper	MD	2-2.2'	Snolic Sister	Clarks Fork	WY	1200
National Falls (far lef		WID	2-2.2	Lower Barrel Springs	Colorado, Glenwood Cyn	CO	3000
Rocky Mountain	1)			Pine Creek	Arkansas, Pine	co	4.5
No Name	Animas, Upper	CO	2000		Creek Canyon		
Damnation Alley	Encampment	WY	1000-1200	Slurry Pipe	Eagle River, Gillman Gorge	CO	4'
	Animas, Upper	CO	2000-2500	South East			100.0
Broken Bridge	Arkansas, Pine	co	1500-	Gorilla Falls/Green	Green River Narrows	NC	1-4 tubes
Pine Creek		CO		Scream Machine	Sizeli Mirel Marions	110	1 4 tubes
D	Creek Canyon	NIM	2100(3.5')	Sunshine	Green River Narrows	NC	1-4 tubes
Rock Garden	Rio Grande, Lower Taos Box	NM	2000-3000	West Coast			1 Tubes
Canyon		CO	4000	Lumsden Falls	Tuolumne	CA	moderate
No Name	Animas, Upper	CO	4000	Juicer	Payette, N. Fk.	ID	4000
Big Drops	Colorado, Cataract Canyon	UT	30,000	Class 5.3	. ajemo, m. r K.		4000
South East	Chattagas Care IV	CAICC	1 0' 2 2'	Rocky Mountain			
Sock'em Dog	Chattooga, Sect. IV	GA/SC	1.8'-2.3'	S Turn	Lime Cr.	CO	
El Horrendo	Russell Fork, Breaks	W	800-1250	Upper Narrow	Cache La Poudre, Narrows	co	2.5', 500
(Right Side)				opper rantow	Cuene La i oudic, Naiiows	CO	2.5,500

Rapid name (s)	River, section (s)	State	Level
Rigormortis	Clear Cr. Cyn	CO	900
West Coast Jacob's Ladder	Payette, N. Fk.	ID	3500
Nutcracker	Payette, N. Fk.	ID	1800-2000



American Whitewater was organized in 1957 to protect and enhance the recreational enjoyment of whitewater sports in America. American Whitewater is dedicated to safety, education, access, and the preservation and conservation of America's Whitewater Rivers.

> For more information or to join, contact American Whitewater P.O. Box 636 Margaretville, NY 12455 914-586-2355

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Safety Code of American Whitewater

(Formerly, The American Whitewater Affiliation)

Four Decades of Service to the Paddlers of America



Our mission is to conserve and restore America's whitewater resources and to enhance opportunities to enjoy them safely.

Adopted 1959 Revised 1998

Lee Belknap Safety Chairman

Charlie Walbridge Safety Vice-chairman

> Mac Thornton Legal Advisor

Rich Bowers Executive Director

This code has been prepared using the best available information and has been reviewed by a broad cross section of whitewater experts. The code, however, is only a collection of guidelines; attempts to minimize risks should be flexible, not constrained by a rigid set of rules. Varying conditions and group goals may combine with unpredictable circumstances to require alternate procedures. This code is not intended to serve as a standard of care for commercial outfitters or guides.

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