

WHITEWATER STREAM INVENTORY
AND
STREAMFLOW SUITABILITY FOR WHITEWATER
CANOEING AND KAYAKING

by

Gilbert C. Bortleson

prepared under Contract No. 74-003

STATE OF WASHINGTON DEPARTMENT OF ECOLOGY

January 1974

State of
Washington
Department
of Ecology



STATE WATER PROGRAM



SPECIAL NOTICE

The attached report was prepared under contract for the Department of Ecology to provide data and information for the State's minimum flow program. This study was determined necessary for water resource management purposes relating to determining instream flow requirements for canoeing and kayaking under the provisions of State statutes RCW 90.22 and RCW 90.54. These statutes declare that recreational uses of water are beneficial and give the Department of Ecology the authority to consider instream recreational values in establishing minimum flow regulations.

Stream location maps, referred to on page 5, were not reproduced with this report but are available for inspection at the Department of Ecology headquarters in Olympia.

WHITEWATER STREAM INVENTORY
AND
STREAMFLOW SUITABILITY FOR WHITEWATER
CANOEING AND KAYAKING

by
Gilbert C. Bortleson

Prepared in cooperation with State of Washington Department of Ecology

January 1974

TABLE OF CONTENTS

| | <u>page</u> |
|--|-------------|
| INTRODUCTION | 1 |
| PROCEDURES AND METHODS | 1 |
| DATA | 5 |
| EXHIBIT A - Whitewater Resource Inventory Areas | 7 |
| EXHIBIT B - Whitewater Stream Rating and Minimum Preferred Low Streamflow | 9 |
| EXHIBIT C - Streamflow Data | 52 |
| EXHIBIT D - Comparison of Rating Values for Whitewater Streams Inventoried | 68 |

ACKNOWLEDGEMENT

The author would like to express appreciation for the valuable assistance received from fellow whitewater paddlers of the Washington Kayak Club. Special acknowledgement is given to Terry Slatten of Tacoma for diligent cooperation.

I agree that the Department of Ecology shall make copies available for inspection. I further agree that copying of this manuscript is allowable only for water management-related purposes. It is understood, however, that any copying of this manuscript for commercial purposes, or for financial gain, shall not be allowed without my written permission.

Signed: Gilbert C. Bortleson

Date: January 22, 1974

INTRODUCTION

The purpose of this report is to: (1) conduct a partial inventory of streams and/or reaches of streams suitable for whitewater canoeing and kayaking in designated inventory areas, (2) establish a priority ranking for whitewater streams and/or reaches of streams and rating them according to desirability for canoeing and kayaking, and (3) provide, where sufficient data can be obtained, a minimum and most preferred low streamflow (in cubic feet per second) suitable for canoeing and kayaking. Whitewater streams were partially inventoried in the drainage basins indicated with red circles in Exhibit A.

PROCEDURES AND METHODS

Whitewater Stream Criteria

The partial inventory of whitewater streams or segments thereof are those streams considered "favorites" among canoers and kayakers. "Whitewater canoeing and kayaking" are those boating activities done on streams with appreciable turbulence or rapids. The boats used are decked (completely enclosed), lightweight, responsive, portagable and powered by paddle. "Favorite" whitewater streams in Washington generally meet most of the following criteria: suitable flows, aesthetic river environs, challenging but not too difficult rapids, and proximity to user. Often the "favorite" whitewater rivers are located in mountainous or semi-mountainous reaches of the stream which have a gradient in excess of 15 feet per mile and a preferred low streamflow in excess of 700 cfs (cubic feet per second). Most "favorite" whitewater rivers or reaches thereof would be in the Boulder Zone (IV) or Floodway Zone (III) (Interagency Committee for Outdoor Recreation, 1972).

Whitewater Stream Rating Value

The criteria used to evaluate whitewater streams is shown in Exhibit B. The criteria used are dependent to a degree on boater attitude objectives and boater experience. For example, boaters may be broadly grouped into two categories (1) those who prefer the riverscape environment for its own sake and the technical challenge of the river is secondary and (2) those intrigued primarily by the technical challenge of the whitewater and the riverscape environment is of secondary importance. The design criteria set forth in Exhibit B reflects both boater objectives; however, emphasis given to the former boater objective. The river criteria used to rate whitewater streams are riverscape interest, river channel interest, shore modification, river channel modifications, pollution evidence, people seclusion opportunity, streamflow, proximity to population center, and accessibility. A high assigned weighting factor was given to riverscape interest and river channel interest because the quality of these characteristics is the most important to the whitewater boater experience. Equal weight is given to shore and river channel modifications which are most often irreversible changes imposed on the natural riverscape and detract from quality boater experience. Pollution evidence is assigned a weight of moderate importance. Although forms of pollution may be highly intrusive to boater experience it is often a corrective situation. Moderate importance is also given to people seclusion opportunity and streamflow. Slight importance is given to proximity to population center and accessibility since these factors are largely a reflection of boater convenience rather than to the welfare and intrinsic value of the river.

The columns in the inventory table show nine criteria for evaluating streams related to whitewater boating. A rank value of relative importance is determined for each of the nine categories and then recorded in the heavy-

lined boxes. A value 3 indicates great importance, 2 moderate importance, and 1 slight importance. Mechanically the ranking is accomplished by drawing a diagonal line from left to right through the appropriate box. 25 data-criteria are separately ranked on a basis of 5 to 1. A value of 5 indicates high quality or a very small departure from the most desired characteristic. A value of 1 indicates low quality or a large departure from the most desired characteristic. The rank of the data-criteria is then recorded in the lower left hand corner. Each indicated data rank is multiplied by the assigned rank. This value is recorded in the upper right hand corner of each box. Next, these values are summed vertically and the total is placed in the far-right column. Thus, the total score provides an index of the relative quality of stream from a whitewater canoe and kayak standpoint.

Whitewater Streamflow Suitability

There is no single streamflow which is optimum for all whitewater boaters. Some whitewater enthusiasts, for example, are attracted to the tumbling, rushing waters of a high gradient stream during peak runoff periods. Other whitewater enthusiasts are attracted to calmer waters during the summer low flows. It is difficult, if not impossible, to establish a flow or a range of flows which will meet the approval of all concerned. It is logical, however, to establish an approximate minimum low flow which would interfere with the normal boating experience and rapids negotiation. For a small stream segment of similar character, a minimum low flow assessment would not be especially difficult to determine. However, under the practical circumstance of a typical 5 to 12 mile river trip, the character of the rapids, shallows and width of the river may vary considerably over the stream reach. Therefore, for a given streamflow within a stream reach with diverse

channel characteristics, the streamflow suitability for canoeing and kayaking may vary considerably for different parts of a stream reach. Secondly, different points along the stream may change with time since rivers are always either eroding or depositing materials. Normally the profile of a river is relatively steep near the headwaters and relatively flat near the lower reaches. However, this general relation is modified within any given section by the geology of the river basin. Where topographic permits, local steepening of gradient occurs where the river cuts across exposed bedrock or beds of aggraded gravel and boulders. Where the gradient of a river increases, the velocity of streamflow increases and the cross-sectional area (depth x width) decreases. Thus, shallow or narrow channels of steep gradient are critical to the canoeability. Portions of the stream where the channel is deep and velocities slow, low flows are of little concern to the boater. Low gradient streams usually have suitable flows for a longer period during the year than high gradient streams.

The criteria for a minimum low flow is the minimum discharge necessary for a whitewater kayak or canoe to float freely over the rapids without dragging bottom. The following also applies to the minimum low flow definition: 1) the boater expertise in rapids negotiation is intermediate-to-advanced. 2) the boat must float freely over the rapids and shallows for nearly 100 percent of the run. 3) usually a 10 to 25 percent reduction in minimum streamflow would result in difficult or impossible river navigation due to bottom dragging of boat in the shallows, rapids, or riffles. 4) the minimum low flow discharge needed for 2-man whitewater canoe instead of a one-man canoe or kayak probably would be increased, but only marginally. The minimum low flow needed for whitewater canoeing and kayaking is by definition only marginal. Therefore, the preferred low flow is the discharge

in excess of the minimum flow which is often ideally suited for rapids negotiation. The streamflow is often sufficient to cover most of the rocks which make the rapids negotiation easier, but the flow is not high enough to raise the river difficulty rating. The preferred low flow is often 25 to 200 percent higher than minimum low flow.

The reference point for the flow data is the U.S.G.S. gage that reflects as closely as possible the streamflow under consideration. It is essential to recognize that the flows given for minimum and preferred low streamflow in most cases are referenced to a U.S.G.S. streamflow gage which is located a considerable distance downstream or upstream of the stream reach of interest. Only in the latter case does the discharge given represent actual conditions of canoe or kayak suitability.

Stream Location

The location of each stream reach inventoried is shown on U.S.G.S. 1:125,000 maps by a yellow line. The starting and ending point for each stream reach is given by a blue and red circle, respectively. Where the ending location of the kayak and canoe trip corresponds to the beginning of the next trip a half circle in blue and red is shown. Each stream reach is given a code number.

DATA

The whitewater stream rating for each river or river segment and minimum low flow data are shown in Exhibit B. Where sufficient data are not available, no flow data are given. The river segments run by canoe and kayak groups are determined mainly by rapids difficulty rating, length

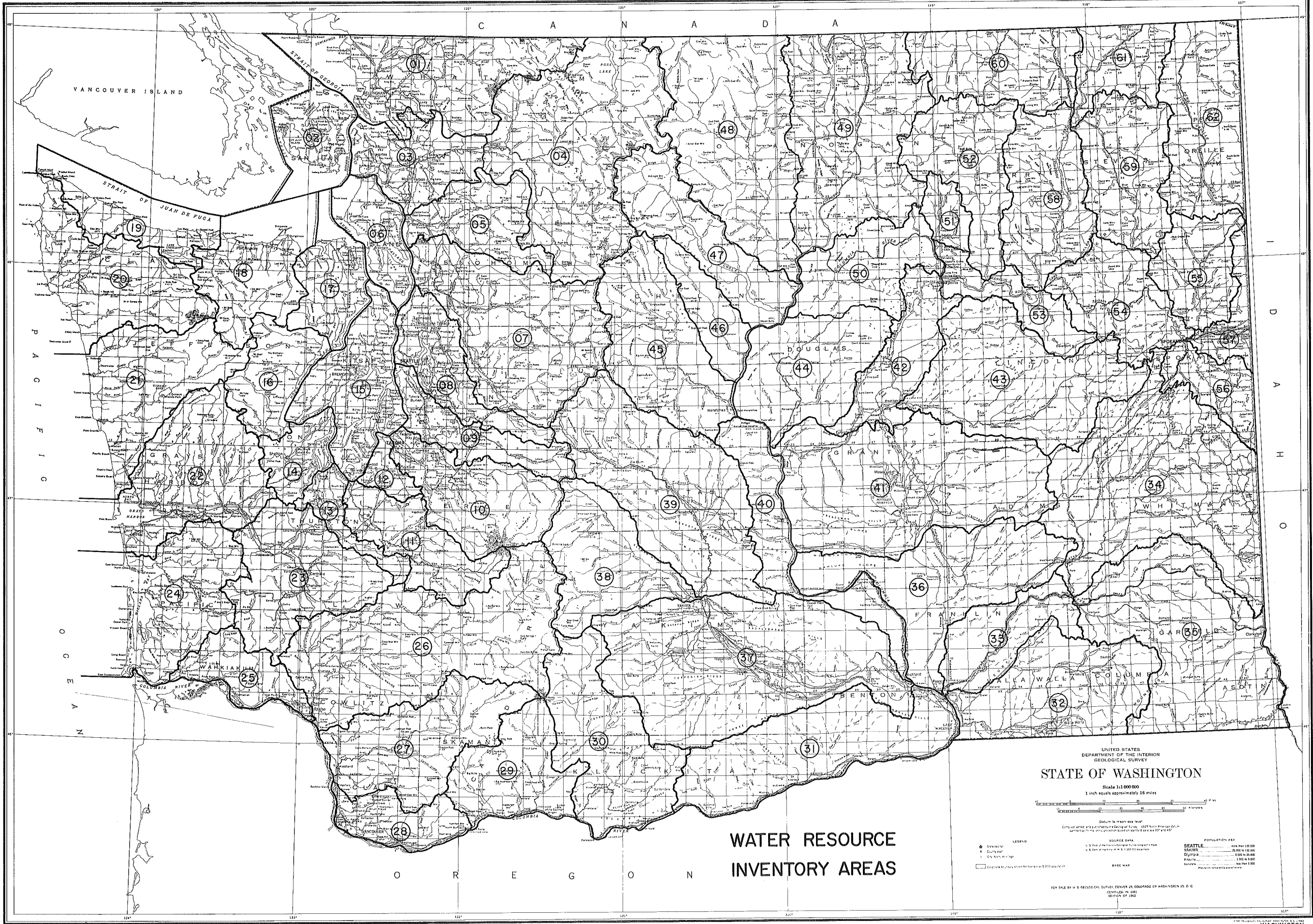
of run, and availability of put-in and take-out points. Understandably, the rating assigned to each criteria represent an average value for the stream segment rather than a reflection of the best or worse features for any part of the stream segment.

For each stream segment, the date, gaging station location, stream flow in cfs (cubic feet per second), and adequacy of the streamflow are given in Exhibit C. The data presented are the basis for the establishment of minimum and preferred low streamflow suitability for whitewater canoeing and kayaking.

A comparison of ranking values for all whitewater streams evaluated is shown in Exhibit D. The stream values include riverscape interest, river channel interest, freedom from shore and river channel modifications, and human use factors.

EXHIBIT A

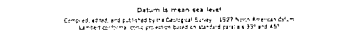
Water Resource Inventory Areas



**WATER RESOURCE
INVENTORY AREAS**

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
STATE OF WASHINGTON

Scale 1:1,000,000
1 inch equals approximately 16 miles



LEGEND

- ★ Sinkhole
- City well
- City water supply
- Edge of 100-foot contour for 500-foot elevation

SOURCE DATA

U.S. Geological Survey, 1952
U.S. Geological Survey, 1952
U.S. Geological Survey, 1952

BASE MAP

POPULATION PER

| | |
|----------|------------------|
| SEATTLE | POP. PER 100,000 |
| TACOMA | POP. PER 100,000 |
| SPokane | POP. PER 100,000 |
| Everett | POP. PER 100,000 |
| Bellevue | POP. PER 100,000 |

FOR SALE BY U.S. GEOLOGICAL SURVEY, CENTER 25, GOLDEN CO. WASHINGTON, D.C.
GPO: 1952 O-500-000
SECTION OF 1952

EXHIBIT B

Whitewater Stream Rating and
Minimum and Preferred Low Streamflow

MINIMUM AND LOW PREFERRED STREAMFLOW FOR WHITEWATER CANOEING AND KAYAKING

| River No | River | Gaging Station | | Minimum flow | Preferred low flow |
|----------|-------------------------------|----------------------|-----|--------------|--------------------|
| | | U.S.G.S. | No. | | |
| 088.0 | Nisqually, Middle | 12088400 | | 900 - 1100 | 1100 - 1800 |
| 105.0 | Green, Upper | 12105900 | | 550 - 650 | 650 - 1500 |
| 105.1 | Green, Upper Gorge | do | | 700 - 800 | 700 - 1500 |
| 105.2 | Green, Lower Gorge | do | | 450 - 550 | 550 - 1700 |
| 105.3 | Green, Lower | do | | 400 - 500 | 500 - 1500 |
| 119.0 | Cedar | 12119000 | | 350 - 450 | 450 - 1300 |
| 134.0 | North Fork Skykomish | 12134500 | | 2800 - 3000 | --- |
| 134.1 | Skykomish, Sunset Falls | do | | 900 - 1200 | 1200 - 3000 |
| 134.2 | Skykomish, Big Eddy | do | | 1400 - 1700 | 1600 - 3000 |
| 141.0 | Middle Fork Snoqualmie, Upper | 12141300 | | 500 - 700 | 700 - 1200 |
| 141.1 | do, Middle | do | | 700 - 800 | 800 - 1800 |
| 142.0 | North Fork Snoqualmie | 12142000 | | 350 - 450 | 450 - 800 |
| 161.0 | South Fork Stillaguamish | 12161000 | | 800 - 900 | 900 - 1600 |
| 186.0 | Sauk, Upper | 12186000 | | 800 - 900 | 900 - 1500 |
| 189.0 | Sauk, Middle | 12189500 12188400 | | 1200 - 1400 | 1400 - 2200 |
| 449.1 | Methow, Middle | 12449950 | | 600 - 900 | --- |
| 449.2 | Methow, Lower | do | | 500 - 800 | --- |
| 459.0 | Wenatchee, Lower | 12459000 | | 1500 - 2000 | --- |

River: Canyon River (035.0)

River segment: Bridge 4 mi. above confluence of Canyon and W. Fork of Satsop to bridge on Cougar Smith Rd. on W. Fork of Satsop (U.S.G.S. Wynoochee Valley and Gridale)

Gaging station: Satsop River near Satsop (12035000)

Minimum flow:

Preferred low flow:

Remarks:

The Canyon River is a very narrow river bordered by rock walls and cliffs of tilted sedimentary beds. Moss-covered trees and waterfalls make a scenic shore environs. The water flow and gradient are low, so the river is easy to paddle; however, log debris is common along the stream.

| WHITEWATER STREAM INVENTORY CRITERIA | | | | |
|---|------|---|--|------|
| RIVERSCAPE INTEREST | | 3 | SHORE MODIFICATIONS | 3 |
| 1. Shore upland primarily undeveloped, forestry or limited agriculture | 5/15 | 5 | 14. Compatible developments blending with surroundings or screened from river view | 5/15 |
| 2. Scenic shore environs (i.e. gorge, cliffs, canyon, forest, primitive setting) | 5/15 | 5 | 15. Roadways not a visual or audible intrusion | 5/15 |
| 3. Diverse views and scenes | 4/12 | 4 | 16. No or limited degree of environmental intrusions (i.e. power lines, quarries, excavation, clearcut shore, bridges) | 5/15 |
| 4. Flora diversity and interest | 5/15 | 5 | RIVER CHANNEL MODIFICATIONS | |
| 5. Outstanding features (i.e. water falls, snow-capped mountains, pastoral views) | 5/15 | 5 | 17. Freedom from riprap, diking, filling, bulkheads, levees, dams | 5/15 |
| 6. Scenic backdrops and views of far places | 3/9 | 3 | POLLUTION - EVIDENCE | |
| RIVER CHANNEL INTEREST | | 3 | 18. Freedom from waste effluents, trash, dumping, odors | 5/10 |
| 7. Pools and rapids in relative short succession | 2/6 | 2 | PEOPLE SECLUSION OPPORTUNITY | |
| 8. Frequent rock and boulder beds with relatively deep channel passage | 2/6 | 2 | 19. Human-use activity near streamway light | 5/10 |
| 9. Channel diversity (i.e. river bends, accretion bars, islands, boulder drops, shoals, confined channel) | 3/9 | 3 | 20. Setting, topography, shore, and channel characteristics conducive to seclusion opportunity | 5/10 |
| 10. Shore-waterway intimacy (i.e. stream width generally 300 ft wide or less during moderate to low flows) | 5/15 | 5 | STREAMFLOW | |
| 11. High stream bank usability for water contact activities | 5/15 | 5 | 21. Streamflow adequate for boating year-round | 2/4 |
| 12. Rapids difficulty rating II, III during low to moderate flows | 3/9 | 3 | 22. Streamflow variation minimal | 2/4 |
| 13. Rapids generally within same difficulty rating at given flow | 5/15 | 5 | PROXIMITY TO POPULATION CENTER | |
| Relative ranking shown in heavy boxes Value 3 - Great importance Value 2 - Moderate importance Value 1 - Slight importance | | 23. Within 100 miles or closer of major population center | | 3/3 |
| | | ACCESSIBILITY | | 1 |
| | | 24. Vehicular access adequate | 2/2 | |
| | | 25. Vehicular access limited and screened from river | | 5/5 |
| RANKING SCORE | | | | 264 |

River: West Fork of Satsop River (035.1)
 River segment: Bridge at Cougar-Smith road to footbridge at Franklin Park (U.S.G.S. Wynoochee Valley and Grisdale).
 Gaging station: Satsop River near Satsop (12035000)
 Minimum flow:
 Preferred low flow:

Remarks:

The West Fork of Satsop is a placid river with scenic wooded shore environs, mostly deciduous trees. The low gradient and large pools allow the river to be floated much of the year. The many gravel bars make ideal picnic and camping sites.

| WHITEWATER STREAM INVENTORY CRITERIA | | | |
|---|--------------------|--|--------------------|
| RIVERSCAPE INTEREST | 3 | SHORE MODIFICATIONS | 3 |
| 1. Shore upland primarily undeveloped, forestry or limited agriculture | 12 4 | 14. Compatible developments blending with surroundings or screened from river view | 15 5 |
| 2. Scenic shore environs (i.e. gorge, cliffs, canyon, forest, primitive setting) | 12 4 | 15. Roadways not a visual or audible intrusion | 15 5 |
| 3. Diverse views and scenes | 12 4 | 16. No or limited degree of environmental intrusions (i.e. power lines, quarries, excavation, clearcut shore, bridges) | 12 4 |
| 4. Flora diversity and interest | 12 4 | RIVER CHANNEL MODIFICATIONS | 3 |
| 5. Outstanding features (i.e. water falls, snow-capped mountains, pastoral views) | 9 3 | 17. Freedom from riprap, diking, filling, bulkheads, levees, dams | 15 5 |
| 6. Scenic backdrops and views of far places | 9 3 | POLLUTION-EVIDENCE | 2 |
| RIVER CHANNEL INTEREST | 3 | 18. Freedom from waste effluents, trash, dumping, odors | 10 5 |
| 7. Pools and rapids in relative short succession | 6 2 | PEOPLE SECLUSION OPPORTUNITY | 2 |
| 8. Frequent rock and boulder beds with relatively deep channel passage | 3 1 | 19. Human-use activity near streamway light | 8 4 |
| 9. Channel diversity (i.e. river bends, accretion bars, islands, boulder drops, shoals, confined channel) | 6 2 | 20. Setting, topography, shore, and channel characteristics conducive to seclusion opportunity | 8 4 |
| 10. Shore-waterway intimacy (i.e. stream width generally 300 ft wide or less during moderate to low flows) | 9 3 | STREAMFLOW | 2 |
| 11. High stream bank usability for water contact activities | 15 5 | 21. Streamflow adequate for boating year-round | 8 4 |
| 12. Rapids difficulty rating II, III during low to moderate flows | 6 2 | 22. Streamflow variation minimal | 6 3 |
| 13. Rapids generally within same difficulty rating at given flow | 15 5 | PROXIMITY TO POPULATION CENTER | 1 |
| Relative ranking shown in heavy boxes Value 3 - Great importance Value 2 - Moderate importance Value 1 - Slight importance | | 23. Within 100 miles or closer of major population center | 3 3 |
| | | ACCESSIBILITY | 1 |
| | | 24. Vehicular access adequate | 2 2 |
| | | 25. Vehicular access limited and screened from river | 5 5 |
| | | RANKING SCORE | 233 |

River: Wynoochee River (036.0)
 River segment: 2.5 miles above Save Creek to 3.5 miles above Schafer Creek (U.S.G.S. Wynoochee Valley and Gridale)
 Gaging station: Wynoochee River near Aberdeen (12036000)
 Minimum flow:
 Preferred low flow:

Remarks:

The trip starts with a one or two miles of canyon then breaks into a braided channel with numerous islands and shallow gravel bars. The river has few rapids and is mostly swiftly moving current. Lots of log debris is common along the streamway.

| WHITEWATER STREAM INVENTORY CRITERIA | | | |
|---|------|--|------|
| RIVERSCAPE INTEREST | 3 | SHORE MODIFICATIONS | 3 |
| 1. Shore upland primarily undeveloped, forestry or limited agriculture | 5/15 | 14. Compatible developments blending with surroundings or screened from river view | 5/15 |
| 2. Scenic shore environs (i.e. gorge, cliffs, canyon, forest, primitive setting) | 3/9 | 15. Roadways not a visual or audible intrusion | 5/15 |
| 3. Diverse views and scenes | 3/9 | 16. No or limited degree of environmental intrusions (i.e. power lines, quarries, excavation, clearcut shore, bridges) | 4/12 |
| 4. Flora diversity and interest | 3/9 | RIVER CHANNEL MODIFICATIONS | 3 |
| 5. Outstanding features (i.e. water falls, snow-capped mountains, pastoral views) | 3/9 | 17. Freedom from riprap, diking, filling, bulkheads, levees, dams | 5/15 |
| 6. Scenic backdrops and views of far places | 3/9 | POLLUTION EVIDENCE | 2 |
| RIVER CHANNEL INTEREST | 3 | 18. Freedom from waste effluents, trash, dumping, odors | 5/10 |
| 7. Pools and rapids in relative short succession | 1/3 | PEOPLE SECLUSION OPPORTUNITY | 2 |
| 8. Frequent rock and boulder beds with relatively deep channel passage | 1/3 | 19. Human-use activity near streamway light | 4/8 |
| 9. Channel diversity (i.e. river bends, accretion bars, islands, boulder drops, shoals, confined channel) | 2/6 | 20. Setting, topography, shore, and channel characteristics conducive to seclusion opportunity | 4/8 |
| 10. Shore-waterway intimacy (i.e. stream width generally 300 ft wide or less during moderate to low flows) | 3/9 | STREAMFLOW | 2 |
| 11. High stream bank usability for water contact activities | 3/9 | 21. Streamflow adequate for boating year-round | 3/6 |
| 12. Rapids difficulty rating II, III during low to moderate flows | 2/6 | 22. Streamflow variation minimal | 3/6 |
| 13. Rapids generally within same difficulty rating at given flow | 5/15 | PROXIMITY TO POPULATION CENTER | 1 |
| Relative ranking shown in heavy boxes Value 3 - Great importance Value 2 - Moderate importance Value 1 - Slight importance | | 23. Within 100 miles or closer of major population center | 3/3 |
| | | ACCESSIBILITY | 1 |
| | | 24. Vehicular access adequate | 2/2 |
| | | 25. Vehicular access limited and screened from river | 5/5 |
| | | RANKING SCORE | 216 |

River: Deschutes River (079.0)

River segment: Vail Loop Road at bridge near Lake Lawrence to bridge at Hy 507 near Rainier (U.S.G.S. Vail and Lake Lawrence)

Gaging station: Deschutes River near Rainier (12079000)

Minimum flow:

Preferred low flow:

Remarks:

The Deschutes is a narrow-channelled river with a dense growth of alder and shrubs growing close to shore. The run has some long stretches of flat gradient with slow moving water; few large rocks and boulders are found in the streambed. Riverfront houses are prevalent along the shore.

| WHITEWATER STREAM INVENTORY CRITERIA | | | | |
|---|---------|--|---|--------|
| RIVERSCAPE INTEREST | | 3 | SHORE MODIFICATIONS | 3 |
| 1. Shore upland primarily undeveloped, forestry or limited agriculture | 9 3 | 14. Compatible developments blending with surroundings or screened from river view | 6 2 | 6 |
| 2. Scenic shore environs (i.e. gorge, cliffs, canyon, forest, primitive setting) | 12 4 | 15. Roadways not a visual or audible intrusion | 12 4 | 12 |
| 3. Diverse views and scenes | 9 3 | 16. No or limited degree of environmental intrusions (i.e. power lines, quarries, excavation, clearcut shore, bridges) | 9 3 | 9 |
| 4. Flora diversity and interest | 9 3 | RIVER CHANNEL MODIFICATIONS | | 3 |
| 5. Outstanding features (i.e. water falls, snow-capped mountains, pastoral views) | 9 3 | 17. Freedom from riprap, diking, filling, bulkheads, levees, dams | 12 4 | 12 |
| 6. Scenic backdrops and views of far places | 6 2 | POLLUTION - EVIDENCE | | 2 |
| RIVER CHANNEL INTEREST | | 3 | 18. Freedom from waste effluents, trash, dumping, odors | 8 4 |
| 7. Pools and rapids in relative short succession | 3 1 | PEOPLE SECLUSION OPPORTUNITY | | 2 |
| 8. Frequent rock and boulder beds with relatively deep channel passage | 6 2 | 19. Human-use activity near streamway light | 6 3 | 6 |
| 9. Channel diversity (i.e. river bends, accretion bars, islands, boulder drops, shoals, confined channel) | 6 2 | 20. Setting, topography, shore, and channel characteristics conducive to seclusion opportunity | 6 3 | 6 |
| 10. Shore-waterway intimacy (i.e. stream width generally 300 ft wide or less during moderate to low flows) | 12 4 | STREAMFLOW | | 2 |
| 11. High stream bank usability for water contact activities | 6 2 | 21. Streamflow adequate for boating year-round | 6 3 | 6 |
| 12. Rapids difficulty rating II, III during low to moderate flows | 9 3 | 22. Streamflow variation minimal | 6 3 | 6 |
| 13. Rapids generally within same difficulty rating at given flow | 15 5 | PROXIMITY TO POPULATION CENTER | | 1 |
| Relative ranking shown in heavy boxes Value 3 - Great importance Value 2 - Moderate importance Value 1 - Slight importance | | 23. Within 100 miles or closer of major population center | 4 4 | 4 |
| | | ACCESSIBILITY | | 1 |
| | | 24. Vehicular access adequate | 4 4 | 4 |
| | | 25. Vehicular access limited and screened from river | 4 4 | 4 |
| RANKING SCORE | | | | 194 |

River: Nisqually River (088.0)
 River segment: Bridge at McKenna to bridge one mile below Centralia Power Plant (U.S.G.S. Weir Prairie and Yelm)
 Gaging station: Nisqually River near McKenna (12088400)
 Minimum flow: 900 - 1100 cfs
 Preferred low flow: 1100 - 1800 cfs

Remarks:

Nisqually River is a pleasant trip through "bouldery" drops of moderate difficulty intermittent with long pools of swift moving water. The Nisqually glacier feeds the river and the water is often turbid. The stream gaging station, Nisqually River near McKenna, records the water flow upstream from the diversion canal for Centralia Power Plant.

| WHITEWATER STREAM INVENTORY CRITERIA | | | |
|---|------|--|------|
| RIVERSCAPE INTEREST | 3 | SHORE MODIFICATIONS | 3 |
| 1. Shore upland primarily undeveloped, forestry or limited agriculture | 4/12 | 14. Compatible developments blending with surroundings or screened from river view | 4/12 |
| 2. Scenic shore environs (i.e. gorge, cliffs, canyon, forest, primitive setting) | 3/9 | 15. Roadways not a visual or audible intrusion | 5/15 |
| 3. Diverse views and scenes | 3/9 | 16. No or limited degree of environmental intrusions (i.e. power lines, quarries, excavation, clearcut shore, bridges) | 3/9 |
| 4. Flora diversity and interest | 3/9 | RIVER CHANNEL MODIFICATIONS | 3 |
| 5. Outstanding features (i.e. water falls, snow-capped mountains, pastoral views) | 3/9 | 17. Freedom from riprap, diking, filling, bulkheads, levees, dams | 4/12 |
| 6. Scenic backdrops and views of far places | 3/9 | POLLUTION EVIDENCE | 2 |
| RIVER CHANNEL INTEREST | 3 | 18. Freedom from waste effluents, trash, dumping, odors (glacial silt) | 2/4 |
| 7. Pools and rapids in relative short succession | 2/6 | PEOPLE SECLUSION OPPORTUNITY | 2 |
| 8. Frequent rock and boulder beds with relatively deep channel passage | 3/9 | 19. Human-use activity near streamway light | 3/6 |
| 9. Channel diversity (i.e. river bends, accretion bars, islands, boulder drops, shoals, confined channel) | 3/9 | 20. Setting, topography, shore, and channel characteristics conducive to seclusion opportunity | 3/6 |
| 10. Shore-waterway intimacy (i.e. stream width generally 300 ft wide or less during moderate to low flows) | 3/9 | STREAMFLOW | 2 |
| 11. High stream bank usability for water contact activities | 4/12 | 21. Streamflow adequate for boating year-round | 3/6 |
| 12. Rapids difficulty rating II, III during low to moderate flows | 3/9 | 22. Streamflow variation minimal | 3/6 |
| 13. Rapids generally within same difficulty rating at given flow | 4/12 | PROXIMITY TO POPULATION CENTER | 1 |
| Relative ranking shown in heavy boxes Value 3 - Great importance Value 2 - Moderate importance Value 1 - Slight importance | | 23. Within 100 miles or closer of major population center | 4/4 |
| | | ACCESSIBILITY | 1 |
| | | 24. Vehicular access adequate | 3/3 |
| | | 25. Vehicular access limited and screened from river | 5/5 |
| | | RANKING SCORE | 211 |

River: Puyallup River (093.0)

River segment: Electron Power Plant to Orting (U.S.G.S. Kaposin and Orting)

Gaging station: Puyallup River near Orting (12093500)

Minimum flow:

Preferred low flow:

Remarks:

The first 1.5 mile is a delightful section of steep narrow river with alternating pools and rapids and scenic bluffs. Below this short section, the river changes from a straight channel to a braided stream. Round boulders and gravels form shoals and islands. The river is heavily ripraped on both sides giving a river a "drainage ditch" appearance.

| WHITEWATER STREAM INVENTORY CRITERIA | | | |
|---|------|--|------|
| RIVERSCAPE INTEREST | 3 | SHORE MODIFICATIONS | 3 |
| 1. Shore upland primarily undeveloped, forestry or limited agriculture | 3/9 | 14. Compatible developments blending with surroundings or screened from river view | 4/12 |
| 2. Scenic shore environs (i.e. gorge, cliffs, canyon, forest, primitive setting) | 1/3 | 15. Roadways not a visual or audible intrusion | 4/12 |
| 3. Diverse views and scenes | 2/6 | 16. No or limited degree of environmental intrusions (i.e. power lines, quarries, excavation, clearcut shore, bridges) | 2/6 |
| 4. Flora diversity and interest | 2/6 | RIVER CHANNEL MODIFICATIONS | 3 |
| 5. Outstanding features (i.e. water falls, snow-capped mountains, pastoral views) | 2/6 | 17. Freedom from riprap, diking, filling, bulkheads, levees, dams | 1/3 |
| 6. Scenic backdrops and views of far places | 3/9 | POLLUTION EVIDENCE | 2 |
| RIVER CHANNEL INTEREST | 3 | 18. Freedom from waste effluents, trash, dumping, odors | 5/10 |
| 7. Pools and rapids in relative short succession | 3/9 | PEOPLE SECLUSION OPPORTUNITY | 2 |
| 8. Frequent rock and boulder beds with relatively deep channel passage | 2/6 | 19. Human-use activity near streamway light | 4/8 |
| 9. Channel diversity (i.e. river bends, accretion bars, islands, boulder drops, shoals, confined channel) | 2/6 | 20. Setting, topography, shore, and channel characteristics conducive to seclusion opportunity | 3/6 |
| 10. Shore-waterway intimacy (i.e. stream width generally 300 ft wide or less during moderate to low flows) | 2/6 | STREAMFLOW | 2 |
| 11. High stream bank usability for water contact activities | 1/3 | 21. Streamflow adequate for boating year-round | 3/6 |
| 12. Rapids difficulty rating II, III during low to moderate flows | 5/12 | 22. Streamflow variation minimal | 2/4 |
| 13. Rapids generally within same difficulty rating at given flow | 4/12 | PROXIMITY TO POPULATION CENTER | 1 |
| Relative ranking shown in heavy boxes Value 3 - Great importance Value 2 - Moderate importance Value 1 - Slight importance | | 23. Within 100 miles or closer of major population center | 4/4 |
| | | ACCESSIBILITY | 1 |
| | | 24. Vehicular access adequate | 2/2 |
| | | 25. Vehicular access limited and screened from river | 5/5 |
| | | RANKING SCORE | 174 |

River: Green River (105.0)
 River segment: Tacoma Headworks to Palmer at Fish Hatchery
 (U.S.G.S. Cumberland and Eagle Gorge)
 Gaging station: Green River below Howard Hansen Dam (12105900)
 Minimum flow: 550 - 650 cfs
 Preferred low flow: 650 - 1500 cfs

Remarks:

A slightly more challenging run than below the Green River Gorge. The upper section of the river provides a scenic view of the mountains. The lower section of the river is bordered by some housing, the town of Palmer, and the City of Tacoma water pipeline. Two outstanding features include accessibility and proximity to population center. The stream-gaging station below Howard Hansen dam is above the City of Tacoma diversion.

| WHITewater STREAM INVENTORY CRITERIA | | | |
|---|------|--|------|
| RIVERSCAPE INTEREST | 3 | SHORE MODIFICATIONS | 3 |
| 1. Shore upland primarily undeveloped, forestry or limited agriculture | 3/9 | 14. Compatible developments blending with surroundings or screened from river view | 2/6 |
| 2. Scenic shore environs (i.e. gorge, cliffs, canyon, forest, primitive setting) | 3/9 | 15. Roadways not a visual or audible intrusion | 2/6 |
| 3. Diverse views and scenes | 3/9 | 16. No or limited degree of environmental intrusions (i.e. power lines, quarries, excavation, clearcut shore, bridges) | 2/6 |
| 4. Flora diversity and interest | 3/9 | RIVER CHANNEL MODIFICATIONS | 3 |
| 5. Outstanding features (i.e. water falls, snow-capped mountains, pastoral views) | 3/9 | 17. Freedom from riprap, diking, filling, bulkheads, levees, dams | 3/9 |
| 6. Scenic backdrops and views of far places | 3/9 | POLLUTION-EVIDENCE | 2 |
| RIVER CHANNEL INTEREST | 3 | 18. Freedom from waste effluents, trash, dumping, odors | 5/10 |
| 7. Pools and rapids in relative short succession | 4/12 | PEOPLE SECLUSION OPPORTUNITY | 2 |
| 8. Frequent rock and boulder beds with relatively deep channel passage | 3/9 | 19. Human-use activity near streamway light | 3/6 |
| 9. Channel diversity (i.e. river bends, accretion bars, islands, boulder drops, shoals, confined channel) | 3/9 | 20. Setting, topography, shore, and channel characteristics conducive to seclusion opportunity | 3/6 |
| 10. Shore-waterway intimacy (i.e. stream width generally 300 ft wide or less during moderate to low flows) | 3/9 | STREAMFLOW | 2 |
| 11. High stream bank usability for water contact activities | 2/6 | 21. Streamflow adequate for boating year-round | 4/8 |
| 12. Rapids difficulty rating II, III during low to moderate flows | 5/15 | 22. Streamflow variation minimal | 3/6 |
| 13. Rapids generally within same difficulty rating at given flow | 3/9 | PROXIMITY TO POPULATION CENTER | 1 |
| Relative ranking shown in heavy boxes Value 3 - Great importance Value 2 - Moderate importance Value 1 - Slight importance | | 23. Within 100 miles or closer of major population center | 5/5 |
| | | ACCESSIBILITY | 1 |
| | | 24. Vehicular access adequate | 4/4 |
| | | 25. Vehicular access limited and screened from river | 3/3 |
| RANKING SCORE | | | 198 |

River: Green River (105.1)

River segment: Palmer to Franklin Bridge--first bridge below Palmer
(U.S.C.S. Cumberland)

Gaging station: Green River below Howard Hansen Dam (12105900)

Minimum flow: 700 - 800 cfs

Preferred low flow: 700 - 1500 cfs

Remarks:

The upper Green River Gorge has outstanding riverscape and river channel interest. Although a few scattered homes exist on the bluff rim, the shore upland is primarily undeveloped. The rapids and sharp drops in short succession (55 feet per mile) provide a challenging trip which is generally run by advanced boaters only. Since the channel slope is steep, this section of the river requires more water than other parts of the Green. Higher flows, such as 2000 cfs or more, require considerable whitewater expertise.

| WHITEWATER STREAM INVENTORY CRITERIA | | | |
|---|------|--|------|
| RIVERSCAPE INTEREST | 3 | SHORE MODIFICATIONS | 3 |
| 1. Shore upland primarily undeveloped, forestry or limited agriculture | 5/5 | 14. Compatible developments blending with surroundings or screened from river view | 4/12 |
| 2. Scenic shore environs (i.e. gorge, cliffs, canyon, forest, primitive setting) | 5/5 | 15. Roadways not a visual or audible intrusion | 5/15 |
| 3. Diverse views and scenes | 5/5 | 16. No or limited degree of environmental intrusions (i.e. power lines, quarries, excavation, clearcut shore, bridges) | 4/12 |
| 4. Flora diversity and interest | 5/5 | RIVER CHANNEL MODIFICATIONS | 3 |
| 5. Outstanding features (i.e. water falls, snow-capped mountains, pastoral views) | 5/5 | 17. Freedom from riprap, diking, filling, bulkheads, levees, dams | 5/15 |
| 6. Scenic backdrops and views of far places | 4/12 | POLLUTION-EVIDENCE | 2 |
| RIVER CHANNEL INTEREST | 3 | 18. Freedom from waste effluents, trash, dumping, odors | 4/8 |
| 7. Pools and rapids in relative short succession | 5/5 | PEOPLE SECLUSION OPPORTUNITY | 2 |
| 8. Frequent rock and boulder beds with relatively deep channel passage | 5/5 | 19. Human-use activity near streamway light | 3/6 |
| 9. Channel diversity (i.e. river bends, accretion bars, islands, boulder drops, shoals, confined channel) | 5/5 | 20. Setting, topography, shore, and channel characteristics conducive to seclusion opportunity | 4/8 |
| 10. Shore-waterway intimacy (i.e. stream width generally 300 ft wide or less during moderate to low flows) | 5/5 | STREAMFLOW | 2 |
| 11. High stream bank usability for water contact activities | 5/5 | 21. Streamflow adequate for boating year-round | 3/6 |
| 12. Rapids difficulty rating II, III during low to moderate flows | 3/9 | 22. Streamflow variation minimal | 3/6 |
| 13. Rapids generally within same difficulty rating at given flow | 3/9 | PROXIMITY TO POPULATION CENTER | 1 |
| Relative ranking shown in heavy boxes Value 3 - Great importance Value 2 - Moderate importance Value 1 - Slight importance | | 23. Within 100 miles or closer of major population center | 5/5 |
| | | ACCESSIBILITY | 1 |
| | | 24. Vehicular access adequate | 2/2 |
| | | 25. Vehicular access limited and screened from river | 5/5 |
| | | RANKING SCORE | 280 |

River: Green River (105.2)
 River segment: Franklin Bridge to Flaming Geyser Park
 (U.S.G.S. Black Diamond and Cumberland)
 Gaging station: Green River below Howard Hansen Dam (12105900)
 Minimum flow: 450 - 550 cfs
 Preferred low flow: 550 - 1500 cfs

Remarks:

The lower Green River Gorge is an ideal whitewater run. The river-scape interest is outstanding with primarily undeveloped shore upland, scenic sandstone bluffs, and flora diversity. Plants grow profusely near the steep cliffs and small waterfalls. The river channel diversity is equally outstanding with pools and rapids in short succession and frequent rock and boulder beds with relatively deep channel passages. The rapids difficulty is suitable for intermediate boaters.

| WHITEWATER STREAM INVENTORY CRITERIA | | | |
|---|------|--|------------|
| RIVERSCAPE INTEREST | 3 | SHORE MODIFICATIONS | 3 |
| 1. Shore upland primarily undeveloped, forestry or limited agriculture | 5/15 | 14. Compatible developments blending with surroundings or screened from river view | 5/15 |
| 2. Scenic shore environs (i.e. gorge, cliffs, canyon, forest, primitive setting) | 5/15 | 15. Roadways not a visual or audible intrusion | 5/15 |
| 3. Diverse views and scenes | 5/15 | 16. No or limited degree of environmental intrusions (i.e. power lines, quarries, excavation, clearcut shore, bridges) | 5/15 |
| 4. Flora diversity and interest | 5/15 | RIVER CHANNEL MODIFICATIONS | 3 |
| 5. Outstanding features (i.e. water falls, snow-capped mountains, pastoral views) | 6/15 | 17. Freedom from riprap, diking, filling, bulkheads, levees, dams | 5/15 |
| 6. Scenic backdrops and views of far places | 4/12 | POLLUTION-EVIDENCE | 2 |
| RIVER CHANNEL INTEREST | 3 | 18. Freedom from waste effluents, trash, dumping, odors | 4/8 |
| 7. Pools and rapids in relative short succession | 5/15 | PEOPLE SECLUSION OPPORTUNITY | 2 |
| 8. Frequent rock and boulder beds with relatively deep channel passage | 5/15 | 19. Human-use activity near streamway light | 3/6 |
| 9. Channel diversity (i.e. river bends, accretion bars, islands, boulder drops, shoals, confined channel) | 5/15 | 20. Setting, topography, shore, and channel characteristics conducive to seclusion opportunity | 4/8 |
| 10. Shore-waterway intimacy (i.e. stream width generally 300 ft wide or less during moderate to low flows) | 5/15 | STREAMFLOW | 2 |
| 11. High stream bank usability for water contact activities | 5/15 | 21. Streamflow adequate for boating year-round | 4/8 |
| 12. Rapids difficulty rating II, III during low to moderate flows | 4/12 | 22. Streamflow variation minimal | 3/6 |
| 13. Rapids generally within same difficulty rating at given flow | 4/12 | PROXIMITY TO POPULATION CENTER | 1 |
| Relative ranking shown in heavy boxes Value 3 - Great importance Value 2 - Moderate importance Value 1 - Slight importance | | 23. Within 100 miles or closer of major population center | 5/5 |
| | | ACCESSIBILITY | 1 |
| | | 24. Vehicular access adequate | 2/2 |
| | | 25. Vehicular access limited and screened from river | 5/5 |
| | | RANKING SCORE | 294 |

River: Green River (105.3)

River segment: Flaming Geyser Park to second bridge downstream from Flaming Geyser Park (U.S.G.S. Black Diamond)

Gaging station: Green River below Howard Hansen Dam (12105900)

Minimum flow: 400 - 500 cfs

Preferred low flow: 500 - 1500 cfs

Remarks:

This is a favorite easy whitewater stream that passes through pastoral land with scenic bluffs bordering much of the section. The run is only 2.5 miles long and known among paddlers as the "yoyo" stretch. The combination of proximity to population center, shortness of the run, and easy whitewater make it a much used stream for beginner trips.

| WHITewater STREAM INVENTORY CRITERIA | | | |
|---|------|---|------------|
| RIVERSCAPE INTEREST | 3 | SHORE MODIFICATIONS | 3 |
| 1. Shore upland primarily undeveloped, forestry or limited agriculture | 3/9 | 14. Compatible developments blending with surroundings or screened from river view | 3/9 |
| 2. Scenic shore environs (i.e. gorge, cliffs, canyon, forest, primitive setting) | 3/9 | 15. Roadways not a visual or audible intrusion | 3/9 |
| 3. Diverse views and scenes | 3/9 | 16. No or limited degree of environmental intrusions (i.e. power lines, quarries, excavation, clearcut shores, bridges) | 3/9 |
| 4. Flora diversity and interest | 3/9 | RIVER CHANNEL MODIFICATIONS | 1 |
| 5. Outstanding features (i.e. water falls, snow-capped mountains, pastoral views) | 3/9 | 17. Freedom from riprap, diking, filling, bulkheads, levees, dams | 3/9 |
| 6. Scenic backdrops and views of far places | 3/9 | POLLUTION EVIDENCE | 2 |
| RIVER CHANNEL INTEREST | 3 | 18. Freedom from waste effluents, trash, dumping, odors | 4/8 |
| 7. Pools and rapids in relative short succession | 3/9 | PEOPLE SECLUSION OPPORTUNITY | 2 |
| 8. Frequent rock and boulder beds with relatively deep channel passage | 2/6 | 19. Human-use activity near streamway light | 2/4 |
| 9. Channel diversity (i.e. river bends, accretion bars, islands, boulder drops, shoals, confined channel) | 2/6 | 20. Setting, topography, shore, and channel characteristics conducive to seclusion opportunity | 2/4 |
| 10. Shore-waterway intimacy (i.e. stream width generally 300 ft wide or less during moderate to low flows) | 3/9 | STREAMFLOW | 2 |
| 11. High stream bank usability for water contact activities | 3/9 | 21. Streamflow adequate for boating year-round | 4/8 |
| 12. Rapids difficulty rating II, III during low to moderate flows | 4/12 | 22. Streamflow variation minimal | 3/6 |
| 13. Rapids generally within same difficulty rating at given flow | 4/12 | PROXIMITY TO POPULATION CENTER | 1 |
| Relative ranking shown in heavy boxes Value 3 - Great importance Value 2 - Moderate importance Value 1 - Slight importance | | 23. Within 100 miles or closer of major population center | 5/5 |
| | | ACCESSIBILITY | 1 |
| | | 24. Vehicular access adequate | 5/5 |
| | | 25. Vehicular access limited and screened from river | 3/3 |
| RANKING SCORE | | | 196 |

River: Cedar River (119.0)

River segment: Landsburg to Maple Valley (U.S.G.S. Maple Valley and Hobart)

Gaging station: Cedar River near Renton (12119000)

Minimum flow: 350 - 450 cfs

Preferred low flow: 450 - 1300 cfs

Remarks:

A favorite nearby stream that twists and winds a course through wooded deciduous forest, scenic bluffs, and river front homes and cottages. Most of the river front development is in lower one-half of the run. The river is narrow with overhanging trees along the stream bank. The stream channel is uniform gradient and during moderate and high flows provides a continuous, "splashy" run of easy-to-moderate difficulty. This river is often run in the winter because of the relatively easy rapids and more suitable flows.

| WHITEWATER STREAM INVENTORY CRITERIA | | | |
|---|--|--|------|
| RIVERSCAPE INTEREST | 3 | SHORE MODIFICATIONS | 3 |
| 1. Shore upland primarily undeveloped, forestry or limited agriculture | 3/9 | 14. Compatible developments blending with surroundings or screened from river view | 2/6 |
| 2. Scenic shore environs (i.e. gorge, cliffs, canyon, forest, primitive setting) | 3/9 | 15. Roadways not a visual or audible intrusion | 4/12 |
| 3. Diverse views and scenes | 3/9 | 16. No or limited degree of environmental intrusions (i.e. power lines, quarries, excavation, clearcut shore, bridges) | 3/9 |
| 4. Flora diversity and interest | 3/9 | RIVER CHANNEL MODIFICATIONS | 3 |
| 5. Outstanding features (i.e. water falls, snow-capped mountains, pastoral views) | 2/9 | 17. Freedom from riprap, diking, filling, bulkheads, levees, dams | 2/6 |
| 6. Scenic backdrops and views of far places | 2/6 | POLLUTION EVIDENCE | 2 |
| RIVER CHANNEL INTEREST | 3 | 18. Freedom from waste effluents, trash, dumping, odors | 4/8 |
| 7. Pools and rapids in relative short succession | 3/9 | PEOPLE SECLUSION OPPORTUNITY | 2 |
| 8. Frequent rock and boulder beds with relatively deep channel passage | 3/9 | 19. Human-use activity near streamway light | 1/2 |
| 9. Channel diversity (i.e. river bends, accretion bars, islands, boulder drops, shoals, confined channel) | 2/6 | 20. Setting, topography, shore, and channel characteristics conducive to seclusion opportunity | 2/4 |
| 10. Shore-waterway intimacy (i.e. stream width generally 300 ft wide or less during moderate to low flows) | 4/12 | STREAMFLOW | 2 |
| 11. High stream bank usability for water contact activities | 2/6 | 21. Streamflow adequate for boating year-round | 2/4 |
| 12. Rapids difficulty rating II, III during low to moderate flows | 5/15 | 22. Streamflow variation minimal | 2/4 |
| 13. Rapids generally within same difficulty rating at given flow | 5/15 | PROXIMITY TO POPULATION CENTER | 1 |
| Relative ranking shown in heavy boxes Value 3 - Great importance Value 2 - Moderate importance Value 1 - Slight importance | | 23. Within 100 miles or closer of major population center | 5/5 |
| | | ACCESSIBILITY | 1 |
| | | 24. Vehicular access adequate | 4/4 |
| | 25. Vehicular access limited and screened from river | 3/3 | |
| | | RANKING SCORE | 190 |

River: North Fork of Skykomish River (134.0)
 River segment: Bridge 0.1 mile above Howard Creek to confluence with South Fork Skykomish (U.S.G.S. Index, Baring, and Monte Cristo)
 Gaging station: Skykomish River near Gold Bar (12134500)
 Minimum flow: 2800 - 3000 cfs
 Preferred low flow:

Remarks:

The scenic backdrops of the high mountains in a primitive setting and the challenging whitewater are the special attractions of this run. This is a high gradient (66 ft per mile), boulder-studded river which needs a lot of water to navigate. The streamflow is not sufficient to run for much of the year. The road is close to river but is well-screened. The development and riprap of river banks near Index are the main distractions. This river is usually run by advanced boaters only.

| WHITewater STREAM INVENTORY CRITERIA | | | |
|---|------|--|------|
| RIVERSCAPE INTEREST | 3 | SHORE MODIFICATIONS | 3 |
| 1. Shore upland primarily undeveloped, forestry or limited agriculture | 4/12 | 14. Compatible developments blending with surroundings or screened from river view | 4/12 |
| 2. Scenic shore environs (i.e. gorge, cliffs, canyon, forest, primitive setting) | 4/12 | 15. Roadways not a visual or audible intrusion | 4/12 |
| 3. Diverse views and scenes | 4/12 | 16. No or limited degree of environmental intrusions (i.e. power lines, quarries, excavation, clearcut shore, bridges) | 4/12 |
| 4. Flora diversity and interest | 4/12 | RIVER CHANNEL MODIFICATIONS | 3 |
| 5. Outstanding features (i.e. water falls, snow-capped mountains, pastoral views) | 5/15 | 17. Freedom from riprap, diking, filling, bulkheads, levees, dams | 3/9 |
| 6. Scenic backdrops and views of far places | 5/15 | POLLUTION EVIDENCE | 2 |
| RIVER CHANNEL INTEREST | 3 | 18. Freedom from waste effluents, trash, dumping, odors | 4/8 |
| 7. Pools and rapids in relative short succession | 5/15 | PEOPLE SECLUSION OPPORTUNITY | 2 |
| 8. Frequent rock and boulder beds with relatively deep channel passage | 4/12 | 19. Human-use activity near streamway light | 4/8 |
| 9. Channel diversity (i.e. river bends, accretion bars, islands, boulder drops, shoals, confined channel) | 4/12 | 20. Setting, topography, shore, and channel characteristics conducive to seclusion opportunity | 4/8 |
| 10. Shore-waterway intimacy (i.e. stream width generally 300 ft wide or less during moderate to low flows) | 4/12 | STREAMFLOW | 2 |
| 11. High stream bank usability for water contact activities | 4/12 | 21. Streamflow adequate for boating year-round | 2/4 |
| 12. Rapids difficulty rating II, III during low to moderate flows | 2/6 | 22. Streamflow variation minimal | 2/4 |
| 13. Rapids generally within same difficulty rating at given flow | 4/12 | PROXIMITY TO POPULATION CENTER | 1 |
| Relative ranking shown in heavy boxes Value 3 - Great importance Value 2 - Moderate importance Value 1 - Slight importance | | 23. Within 100 miles or closer of major population center | 4/4 |
| | | ACCESSIBILITY | 1 |
| | | 24. Vehicular access adequate | 4/4 |
| | | 25. Vehicular access limited and screened from river | 3/3 |
| | | RANKING SCORE | 247 |

River: Skykomish River (134.1)

River segment: Sunset Falls to Anderson Creek (U.S.G.S. Index)

Gaging station: Skykomish River near Gold Bar (12134500)

Minimum flow: 900 - 1200 cfs

Preferred low flow: 1200 - 3000 cfs

Remarks:

One of the outstanding features of this river is the beautiful back-drop of Mt. Index viewed from almost any point on the river. Frequent "house-size" boulders in the streambed as well as pools and rapids in relatively short succession provide ideal eddies and "playspots" for whitewater boaters. The streamflow is probably more suitable year-round than any river in the near vicinity of Seattle. Sections of the Skykomish River rank high in difficulty rating, especially at higher flows. Some of the less attractive features include closeness of roadway, shore revetment for railroad, and one drop on the river which is difficult to negotiate.

| WHITewater STREAM INVENTORY CRITERIA | | | |
|---|------|--|------|
| RIVERSCAPE INTEREST | 3 | SHORE MODIFICATIONS | 3 |
| 1. Shore upland primarily undeveloped, forestry or limited agriculture | 12/4 | 14. Compatible developments blending with surroundings or screened from river view | 9/3 |
| 2. Scenic shore environs (i.e. gorge, cliffs, canyon, forest, primitive setting) | 12/4 | 15. Roadways not a visual or audible intrusion | 9/3 |
| 3. Diverse views and scenes | 15/5 | 16. No or limited degree of environmental intrusions (i.e. power lines, quarries, excavation, clearcut shore, bridges) | 9/3 |
| 4. Flora diversity and interest | 9/3 | RIVER CHANNEL MODIFICATIONS | 3 |
| 5. Outstanding features (i.e. water falls, snow-capped mountains, pastoral views) | 15/5 | 17. Freedom from riprap, diking, filling, bulkheads, levees, dams | 9/3 |
| 6. Scenic backdrops and views of far places | 15/5 | POLLUTION EVIDENCE | 2 |
| RIVER CHANNEL INTEREST | 3 | 18. Freedom from waste effluents, trash, dumping, odors | 8/4 |
| 7. Pools and rapids in relative short succession | 15/5 | PEOPLE SECLUSION OPPORTUNITY | 2 |
| 8. Frequent rock and boulder beds with relatively deep channel passage | 15/5 | 19. Human-use activity near streamway light | 6/3 |
| 9. Channel diversity (i.e. river bends, accretion bars, islands, boulder drops, shoals, confined channel) | 15/5 | 20. Setting, topography, shore, and channel characteristics conducive to seclusion opportunity | 6/3 |
| 10. Shore-waterway intimacy (i.e. stream width generally 300 ft wide or less during moderate to low flows) | 12/4 | STREAMFLOW | 2 |
| 11. High stream bank usability for water contact activities | 12/4 | 21. Streamflow adequate for boating year-round | 10/5 |
| 12. Rapids difficulty rating II, III during low to moderate flows | 9/3 | 22. Streamflow variation minimal | 6/3 |
| 13. Rapids generally within same difficulty rating at given flow | 6/2 | PROXIMITY TO POPULATION CENTER | 1 |
| Relative ranking shown in heavy boxes Value 3 - Great importance Value 2 - Moderate importance Value 1 - Slight importance | | 23. Within 100 miles or closer of major population center | 4/4 |
| | | ACCESSIBILITY | 1 |
| | | 24. Vehicular access adequate | 4/4 |
| | | 25. Vehicular access limited and screened from river | 3/3 |
| | | RANKING SCORE | 245 |

River: Skykomish River (134.2)
 River segment: Railroad bridge .3 miles below No Name Creek to Gold Bar bridge (U.S.G.S. Index)
 Gaging station: Skykomish River near Gold Bar (12134500)
 Minimum flow: 1400 - 1700 cfs
 Preferred low flow: 1600 - 3000 cfs

Remarks:

The scenic backdrop of Mt. Index and other surrounding steep mountains is an outstanding feature of this run. This is a moderate gradient run of intermediate difficulty and well-spaced pools and rapids. This stream reach is wider in many places than upstream of this run, and a greater streamflow is needed to cover the rock beds. The railroad is close to the river but is well-screened. Riverfront cabins and houses exist on left bank for most of lower half of run.

| WHITEWATER STREAM INVENTORY CRITERIA | | | |
|---|------|--|------|
| RIVERSCAPE INTEREST | 3 | SHORE MODIFICATIONS | 3 |
| 1. Shore upland primarily undeveloped, forestry or limited agriculture | 3/9 | 14. Compatible developments blending with surroundings or screened from river view | 2/6 |
| 2. Scenic shore environs (i.e. gorge, cliffs, canyon, forest, primitive setting) | 3/9 | 15. Roadways not a visual or audible intrusion | 4/12 |
| 3. Diverse views and scenes | 4/12 | 16. No or limited degree of environmental intrusions (i.e. power lines, quarries, excavation, clearcut shore, bridges) | 3/9 |
| 4. Flora diversity and interest | 3/9 | RIVER CHANNEL MODIFICATIONS | 3 |
| 5. Outstanding features (i.e. water falls, snow-capped mountains, pastoral views) | 5/15 | 17. Freedom from riprap, diking, filling, bulkheads, levees, dams | 3/9 |
| 6. Scenic backdrops and views of far places | 5/15 | POLLUTION EVIDENCE | 2 |
| RIVER CHANNEL INTEREST | 3 | 18. Freedom from waste effluents, trash, dumping, odors | 4/8 |
| 7. Pools and rapids in relative short succession | 3/9 | PEOPLE SECLUSION OPPORTUNITY | 2 |
| 8. Frequent rock and boulder beds with relatively deep channel passage | 3/9 | 19. Human-use activity near streamway light | 3/6 |
| 9. Channel diversity (i.e. river bends, accretion bars, islands, boulder drops, shoals, confined channel) | 3/9 | 20. Setting, topography, shore, and channel characteristics conducive to seclusion opportunity | 2/4 |
| 10. Shore-waterway intimacy (i.e. stream width generally 300 ft wide or less during moderate to low flows) | 2/6 | STREAMFLOW | 2 |
| 11. High stream bank usability for water contact activities | 3/9 | 21. Streamflow adequate for boating year-round | 3/6 |
| 12. Rapids difficulty rating II, III during low to moderate flows | 4/12 | 22. Streamflow variation minimal | 3/6 |
| 13. Rapids generally within same difficulty rating at given flow | 5/15 | PROXIMITY TO POPULATION CENTER | 1 |
| Relative ranking shown in heavy boxes Value 3 - Great importance Value 2 - Moderate importance Value 1 - Slight importance | | 23. Within 100 miles or closer of major population center | 4/4 |
| | | ACCESSIBILITY | 1 |
| | | 24. Vehicular access adequate | 4/4 |
| | | 25. Vehicular access limited and screened from river | 4/4 |
| | | RANKING SCORE | 218 |

River: Middle Fork Snoqualmie River (141.0)
 River segment: Taylor River and Middle Fork of Snoqualmie River confluence to concrete bridge above gaging station (U.S.G.S. Bandera and Mt. Si)
 Gaging station: Middle Fork Snoqualmie River near Tanner (12141300)
 Minimum flow: 500 - 700 cfs
 Preferred low flow: 700 - 1200 cfs

Remarks:

The combination of spectacular mountain scenery, easy whitewater, semi-wilderness setting, and proximity to population center are outstanding features. Mt. Garfield and Russian Butte are almost in constant view from the river. The closeness of the road bed and clearcut forest on mountains are the main detractions from a near perfect setting.

| WHITEWATER STREAM INVENTORY CRITERIA | | | |
|---|--------------------|--|--------------------|
| RIVERSCAPE INTEREST | 3 | SHORE MODIFICATIONS | 3 |
| 1. Shore upland primarily undeveloped, forestry or limited agriculture | 15 5 | 14. Compatible developments blending with surroundings or screened from river view | 15 5 |
| 2. Scenic shore environs (i.e. gorge, cliffs, canyon, forest, primitive setting) | 12 4 | 15. Roadways not a visual or audible intrusion | 9 3 |
| 3. Diverse views and scenes | 15 5 | 16. No or limited degree of environmental intrusions (i.e. power lines, quarries, excavation, clearcut shore, bridges) | 9 3 |
| 4. Flora diversity and interest | 12 4 | RIVER CHANNEL MODIFICATIONS | 3 |
| 5. Outstanding features (i.e. water falls, snow-capped mountains, pastoral views) | 15 5 | 17. Freedom from riprap, diking, filling, bulkheads, levees, dams | 9 3 |
| 6. Scenic backdrops and views of far places | 15 5 | POLLUTION EVIDENCE | 2 |
| RIVER CHANNEL INTEREST | 3 | 18. Freedom from waste effluents, trash, dumping, odors | 10 5 |
| 7. Pools and rapids in relative short succession | 15 5 | PEOPLE SECLUSION OPPORTUNITY | 2 |
| 8. Frequent rock and boulder beds with relatively deep channel passage | 9 3 | 19. Human-use activity near streamway light | 8 4 |
| 9. Channel diversity (i.e. river bends, accretion bars, islands, boulder drops, shoals, confined channel) | 12 4 | 20. Setting, topography, shore, and channel characteristics conducive to seclusion opportunity | 6 3 |
| 10. Shore-waterway intimacy (i.e. stream width generally 300 ft wide or less during moderate to low flows) | 12 4 | STREAMFLOW | 2 |
| 11. High stream bank usability for water contact activities | 12 4 | 21. Streamflow adequate for boating year-round | 4 2 |
| 12. Rapids difficulty rating II, III during low to moderate flows | 15 5 | 22. Streamflow variation minimal | 4 2 |
| 13. Rapids generally within same difficulty rating at given flow | 15 5 | PROXIMITY TO POPULATION CENTER | 1 |
| Relative ranking shown in heavy boxes Value 3 - Great importance Value 2 - Moderate importance Value 1 - Slight importance | | 23. Within 100 miles or closer of major population center | 5 5 |
| | | ACCESSIBILITY | 1 |
| | | 24. Vehicular access adequate | 5 5 |
| | | 25. Vehicular access limited and screened from river | 3 3 |
| | | RANKING SCORE | 261 |

River: Middle Fork of Snoqualmie River (141.1)
 River segment: Concrete bridge above gaging station to Tanner (U.S.G.S. Bandera)
 Gaging station: Middle Fork of Snoqualmie River near Tanner (121411300)
 Minimum flow: 700 - 800 cfs
 Preferred low flow: 800 - 1800 cfs

Remarks:

The river channel interest is exceptional with drops, narrow chutes, islands, large boulders in streambed and deep pools. The steep-sided shore and forested buffer zone provide an opportunity for solitude. The rapids on this section of the river are challenging, even at moderate flows.

| WHITewater STREAM INVENTORY CRITERIA | | | |
|---|------|--|------------|
| RIVERSCAPE INTEREST | 3 | SHORE MODIFICATIONS | 3 |
| 1. Shore upland primarily undeveloped, forestry or limited agriculture | 4/12 | 14. Compatible developments blending with surroundings or screened from river view | 4/12 |
| 2. Scenic shore environs (i.e. gorge, cliffs, canyon, forest, primitive setting) | 5/15 | 15. Roadways not a visual or audible intrusion | 4/12 |
| 3. Diverse views and scenes | 4/12 | 16. No or limited degree of environmental intrusions (i.e. power lines, quarries, excavation, clearcut shore, bridges) | 4/12 |
| 4. Flora diversity and interest | 4/12 | RIVER CHANNEL MODIFICATIONS | 3 |
| 5. Outstanding features (i.e. water falls, snow-capped mountains, pastoral views) | 4/12 | 17. Freedom from riprap, diking, filling, bulkheads, levees, dams | 4/12 |
| 6. Scenic backdrops and views of far places | 3/9 | POLLUTION-EVIDENCE | 2 |
| RIVER CHANNEL INTEREST | 3 | 18. Freedom from waste effluents, trash, dumping, odors | 5/10 |
| 7. Pools and rapids in relative short succession | 5/15 | PEOPLE SECLUSION OPPORTUNITY | 2 |
| 8. Frequent rock and boulder beds with relatively deep channel passage | 5/15 | 19. Human-use activity near streamway light | 4/8 |
| 9. Channel diversity (i.e. river bends, accretion bars, islands, boulder drops, shoals, confined channel) | 5/15 | 20. Setting, topography, shore, and channel characteristics conducive to seclusion opportunity | 4/8 |
| 10. Shore-waterway intimacy (i.e. stream width generally 300 ft wide or less during moderate to low flows) | 5/15 | STREAMFLOW | 2 |
| 11. High stream bank usability for water contact activities | 4/12 | 21. Streamflow adequate for boating year-round | 2/4 |
| 12. Rapids difficulty rating II, III during low to moderate flows | 3/9 | 22. Streamflow variation minimal | 2/4 |
| 13. Rapids generally within same difficulty rating at given flow | 4/12 | PROXIMITY TO POPULATION CENTER | 1 |
| Relative ranking shown in heavy boxes Value 3 - Great importance Value 2 - Moderate importance Value 1 - Slight importance | | 23. Within 100 miles or closer of major population center | 5/5 |
| | | ACCESSIBILITY | 1 |
| | | 24. Vehicular access adequate | 4/4 |
| | | 25. Vehicular access limited and screened from river | 4/4 |
| | | RANKING SCORE | 260 |

River: Middle Fork Snoqualmie River (141.2)
 River segment: Tanner to North Bend--second bridge below Tanner
 (U.S.G.S. Bandera and North Bend)
 Gaging station: Middle Fork Snoqualmie River near Tanner (121411300)
 Minimum flow:
 Preferred low flow:

Remarks:

The view of Mt. Si from parts of the river make this an interesting run even though much of the shore is semi-developed by housing. The river is quite wide in most places and the stream bank usability is limited by extensive riprap along the banks. This section of the Middle Fork provides an easy and short whitewater run close to a major population center.

| WHITEWATER STREAM INVENTORY CRITERIA | | | |
|---|------|--|-----|
| RIVERSCAPE INTEREST | 3 | SHORE MODIFICATIONS | 3 |
| 1. Shore upland primarily undeveloped, forestry or limited agriculture | 2/6 | 14. Compatible developments blending with surroundings or screened from river view | 2/6 |
| 2. Scenic shore environs (i.e. gorge, cliffs, canyon, forest, primitive setting) | 2/6 | 15. Roadways not a visual or audible intrusion | 2/6 |
| 3. Diverse views and scenes | 2/6 | 16. No or limited degree of environmental intrusions (i.e. power lines, quarries, excavation, clearcut shore, bridges) | 2/6 |
| 4. Flora diversity and interest | 2/6 | RIVER CHANNEL MODIFICATIONS | 3 |
| 5. Outstanding features (i.e. water falls, snow-capped mountains, pastoral views) | 4/12 | 17. Freedom from riprap, diking, filling, bulkheads, levees, dams | 2/6 |
| 6. Scenic backdrops and views of far places | 4/12 | POLLUTION-EVIDENCE | 2 |
| RIVER CHANNEL INTEREST | 3 | 18. Freedom from waste effluents, trash, dumping, odors | 4/8 |
| 7. Pools and rapids in relative short succession | 3/9 | PEOPLE SECLUSION OPPORTUNITY | 2 |
| 8. Frequent rock and boulder beds with relatively deep channel passage | 2/6 | 19. Human-use activity near streamway light | 2/4 |
| 9. Channel diversity (i.e. river bends, accretion bars, islands, boulder drops, shoals, confined channel) | 2/6 | 20. Setting, topography, shore, and channel characteristics conducive to seclusion opportunity | 2/4 |
| 10. Shore-waterway intimacy (i.e. stream width generally 300 ft wide or less during moderate to low flows) | 2/6 | STREAMFLOW | 2 |
| 11. High stream bank usability for water contact activities | 2/6 | 21. Streamflow adequate for boating year-round | 2/4 |
| 12. Rapids difficulty rating II, III during low to moderate flows | 4/12 | 22. Streamflow variation minimal | 2/4 |
| 13. Rapids generally within same difficulty rating at given flow | 5/15 | PROXIMITY TO POPULATION CENTER | 1 |
| Relative ranking shown in heavy boxes Value 3 - Great importance Value 2 - Moderate importance Value 1 - Slight importance | | 23. Within 100 miles or closer of major population center | 5/5 |
| | | ACCESSIBILITY | 1 |
| | | 24. Vehicular access adequate | 5/5 |
| | | 25. Vehicular access limited and screened from river | 3/3 |
| | | RANKING SCORE | 169 |

River: North Fork Snoqualmie River (142.0)

River segment: Campground above Deep Creek to swinging bridge below Hancock Creek (U.S.G.S. Mt. S1)

Gaging station: North Fork of Snoqualmie River near Snoqualmie Falls (12142000)

Minimum flow: 350 - 450 cfs

Preferred low flow: 450 - 800 cfs

Remarks:

The North Fork of Snoqualmie ranks high in river channel interest because of the narrow stream bed, large boulders in stream with passable channels and high channel diversity. The river is confined by steep-sided banks, which have a profuse variety of flora. The clearcut forest down to the shore is visible on lower part of run. The run is in a semi-wilderness setting with no housing along banks no channel modifications, and the road-way is several hundred feet from the river.

| WHITewater STREAM INVENTORY CRITERIA | | | | | |
|---|-----|--|---|-----|----|
| RIVERSCAPE INTEREST | | 3 | SHORE MODIFICATIONS | 3 | |
| 1. Shore upland primarily undeveloped, forestry or limited agriculture | 5/5 | 14. Compatible developments blending with surroundings or screened from river view | 5/5 | 15 | |
| 2. Scenic shore environs (i.e. gorge, cliffs, canyon, forest, primitive setting) | 5/5 | 15. Roadways not a visual or audible intrusion | 5/5 | 15 | |
| 3. Diverse views and scenes | 5/5 | 16. No or limited degree of environmental intrusions (i.e. power lines, quarries, excavation, clearcut shore, bridges) | 4/4 | 12 | |
| 4. Flora diversity and interest | 5/5 | RIVER CHANNEL MODIFICATIONS | | 3 | |
| 5. Outstanding features (i.e. water falls, snow-capped mountains, pastoral views) | 4/4 | 17. Freedom from riprap, diking, filling, bulkheads, levees, dams | 5/5 | 15 | |
| 6. Scenic backdrops and views of far places | 4/4 | POLLUTION EVIDENCE | | 2 | |
| RIVER CHANNEL INTEREST | | 3 | 18. Freedom from waste effluents, trash, dumping, odors | 5/5 | 10 |
| 7. Pools and rapids in relative short succession | 4/4 | PEOPLE SECLUSION OPPORTUNITY | | 2 | |
| 8. Frequent rock and boulder beds with relatively deep channel passage | 5/5 | 19. Human-use activity near streamway light | 5/5 | 10 | |
| 9. Channel diversity (i.e. river bends, accretion bars, islands, boulder drops, shoals, confined channel) | 4/4 | 20. Setting, topography, shore, and channel characteristics conducive to seclusion opportunity | 4/4 | 8 | |
| 10. Shore-waterway intimacy (i.e. stream width generally 300 ft wide or less during moderate to low flows) | 5/5 | STREAMFLOW | | 2 | |
| 11. High stream bank usability for water contact activities | 4/4 | 21. Streamflow adequate for boating year-round | 2/2 | 4 | |
| 12. Rapids difficulty rating II, III during low to moderate flows | 4/4 | 22. Streamflow variation minimal | 1/1 | 2 | |
| 13. Rapids generally within same difficulty rating at given flow | 4/4 | PROXIMITY TO POPULATION CENTER | | 1 | |
| Relative ranking shown in heavy boxes Value 3 - Great importance Value 2 - Moderate importance Value 1 - Slight importance | | 23. Within 100 miles or closer of major population center | 5/5 | 5 | |
| | | ACCESSIBILITY | | 1 | |
| | | 24. Vehicular access adequate | 3/3 | 3 | |
| | | 25. Vehicular access limited and screened from river | 5/5 | 5 | |
| | | RANKING SCORE | | 278 | |

River: South Fork of Snoqualmie River (144.0)
 River segment: Bridge at Edgewick Road to bridge at Cedar Falls Road
 (U.S.G.S. North Bend and Bandera)
 Gaging station: South Fork of Snoqualmie River near North Bend (12144000)
 Minimum flow:
 Preferred low flow:

Remarks:

The South Fork of Snoqualmie River is a narrow, boulder-studded stream with scenic forested shores. The rapids are easy-to-moderate in difficulty. The less attractive features of parts of the river are the shore revetment, housing development, and low streamflow suitability much of the year.

| WHITewater STREAM INVENTORY CRITERIA | | | |
|---|------|--|-----|
| RIVERSCAPE INTEREST | 3 | SHORE MODIFICATIONS | 3 |
| 1. Shore upland primarily undeveloped, forestry or limited agriculture | 2/6 | 14. Compatible developments blending with surroundings or screened from river view | 2/6 |
| 2. Scenic shore environs (i.e. gorge, cliffs, canyon, forest, primitive setting) | 3/9 | 15. Roadways not a visual or audible intrusion | 2/6 |
| 3. Diverse views and scenes | 3/9 | 16. No or limited degree of environmental intrusions (i.e. power lines, quarries, excavation, clearcut shore, bridges) | 3/9 |
| 4. Flora diversity and interest | 3/9 | RIVER CHANNEL MODIFICATIONS | 3 |
| 5. Outstanding features (i.e. water falls, snow-capped mountains, pastoral views) | 3/9 | 17. Freedom from riprap, diking, filling, bulkheads, levees, dams | 2/6 |
| 6. Scenic backdrops and views of far places | 3/9 | POLLUTION EVIDENCE | 2 |
| RIVER CHANNEL INTEREST | 3 | 18. Freedom from waste effluents, trash, dumping, odors | 4/8 |
| 7. Pools and rapids in relative short succession | 3/9 | PEOPLE SECLUSION OPPORTUNITY | 2 |
| 8. Frequent rock and boulder beds with relatively deep channel passage | 3/9 | 19. Human-use activity near streamway light | 2/4 |
| 9. Channel diversity (i.e. river bends, accretion bars, islands, boulder drops, shoals, confined channel) | 3/9 | 20. Setting, topography, shore, and channel characteristics conducive to seclusion opportunity | 2/4 |
| 10. Shore-waterway intimacy (i.e. stream width generally 300 ft wide or less during moderate to low flows) | 5/15 | STREAMFLOW | 2 |
| 11. High stream bank usability for water contact activities | 3/9 | 21. Streamflow adequate for boating year-round | 2/4 |
| 12. Rapids difficulty rating II, III during low to moderate flows | 5/15 | 22. Streamflow variation minimal | 1/2 |
| 13. Rapids generally within same difficulty rating at given flow | 4/12 | PROXIMITY TO POPULATION CENTER | 1 |
| Relative ranking shown in heavy boxes Value 3 - Great importance Value 2 - Moderate importance Value 1 - Slight importance | | 23. Within 100 miles or closer of major population center | 5/5 |
| | | ACCESSIBILITY | 1 |
| | | 24. Vehicular access adequate | 4/4 |
| | | 25. Vehicular access limited and screened from river | 4/4 |
| | | RANKING SCORE | 191 |

River: Tolt River (148.0)

River segment: Public Fish and Game access 3.0 miles below South and North Fork Tolt to Carnation (U.S.G.S. Lake Joy and Carnation)

Gaging station: Tolt River near Carnation (12148500)

Minimum flow:

Preferred low flow:

Remarks:

A small scenic stream with small drops and chutes, several split channels, and tight turns. Riprap of banks on lower one-third of run and riverfront development are the less attractive features of the river. The streamflow is often insufficient for boating much of the year. The whitewater difficulty is suitable for beginner-intermediate boaters.

| WHITEWATER STREAM INVENTORY CRITERIA | | | |
|---|------|--|-----|
| RIVERSCAPE INTEREST | 3 | SHORE MODIFICATIONS | 3 |
| 1. Shore upland primarily undeveloped, forestry or limited agriculture | 3/9 | 14. Compatible developments blending with surroundings or screened from river view | 2/6 |
| 2. Scenic shore environs (i.e. gorge, cliffs, canyon, forest, primitive setting) | 3/9 | 15. Roadways not a visual or audible intrusion | 3/9 |
| 3. Diverse views and scenes | 3/9 | 16. No or limited degree of environmental intrusions (i.e. power lines, quarries, excavation, clearcut shore, bridges) | 3/9 |
| 4. Flora diversity and interest | 3/9 | RIVER CHANNEL MODIFICATIONS | 3 |
| 5. Outstanding features (i.e. water falls, snow-capped mountains, pastoral views) | 3/9 | 17. Freedom from riprap, diking, filling, bulkheads, levees, dams | 2/6 |
| 6. Scenic backdrops and views of far places | 3/9 | POLLUTION EVIDENCE | 2 |
| RIVER CHANNEL INTEREST | 3 | 18. Freedom from waste effluents, trash, dumping, odors | 4/8 |
| 7. Pools and rapids in relative short succession | 4/12 | PEOPLE SECLUSION OPPORTUNITY | 2 |
| 8. Frequent rock and boulder beds with relatively deep channel passage | 2/6 | 19. Human-use activity near streamway light | 2/4 |
| 9. Channel diversity (i.e. river bends, accretion bars, islands, boulder drops, shoals, confined channel) | 2/6 | 20. Setting, topography, shore, and channel characteristics conducive to seclusion opportunity | 3/6 |
| 10. Shore-waterway intimacy (i.e. stream width generally 300 ft wide or less during moderate to low flows) | 4/12 | STREAMFLOW | 2 |
| 11. High stream bank usability for water contact activities | 3/9 | 21. Streamflow adequate for boating year-round | 2/4 |
| 12. Rapids difficulty rating II, III during low to moderate flows | 5/15 | 22. Streamflow variation minimal | 2/4 |
| 13. Rapids generally within same difficulty rating at given flow | 5/15 | PROXIMITY TO POPULATION CENTER | 1 |
| Relative ranking shown in heavy boxes Value 3 - Great importance Value 2 - Moderate importance Value 1 - Slight importance | | 23. Within 100 miles or closer of major population center | 5/5 |
| | | ACCESSIBILITY | 1 |
| | | 24. Vehicular access adequate | 3/3 |
| | | 25. Vehicular access limited and screened from river | 4/4 |
| | | RANKING SCORE | 197 |

River: South Fork Stillaguamish (161.0)
 River segment: River Bar campground to Verlot campground near Ranger Station (U.S.G.S. Granite Falls and Silverton)
 Gaging station: Stillaguamish River near Granite Falls (12161000)
 Minimum flow: 800 - 900
 Preferred low flow: 900 - 1600

Remarks:

The South Fork of Stillaguamish River is a narrow, "boulder-studded" river. Views of high alpine peaks and meadows can be seen from the river. Since the streambed is fairly steep and boulder-studded, a good water flow is required for preferred navigation conditions. Much of the river borders the highway.

| WHITEWATER STREAM INVENTORY CRITERIA | | | | |
|---|-----|--|---|-----|
| RIVERSCAPE INTEREST | | 3 | SHORE MODIFICATIONS | 3 |
| 1. Shore upland primarily undeveloped, forestry or limited agriculture | 5/5 | 14. Compatible developments blending with surroundings or screened from river view | 4/12 | 4 |
| 2. Scenic shore environs (i.e. gorge, cliffs, canyon, forest, primitive setting) | 4/2 | 15. Roadways not a visual or audible intrusion | 2/6 | 2 |
| 3. Diverse views and scenes | 5/5 | 16. No or limited degree of environmental intrusions (i.e. power lines, quarries, excavation, clearcut shore, bridges) | 3/9 | 3 |
| 4. Flora diversity and interest | 4/2 | RIVER CHANNEL MODIFICATIONS | | 3 |
| 5. Outstanding features (i.e. water falls, snow-capped mountains, pastoral views) | 5/5 | 17. Freedom from riprap, diking, filling, bulkheads, levees, dams | 3/9 | 3 |
| 6. Scenic backdrops and views of far places | 5/5 | POLLUTION-EVIDENCE | | 2 |
| RIVER CHANNEL INTEREST | | 3 | 18. Freedom from waste effluents, trash, dumping, odors | 4/8 |
| 7. Pools and rapids in relative short succession | 5/5 | PEOPLE SECLUSION OPPORTUNITY | | 2 |
| 8. Frequent rock and boulder beds with relatively deep channel passage | 5/5 | 19. Human-use activity near streamway light | 3/6 | 3 |
| 9. Channel diversity (i.e. river bends, accretion bars, islands, boulder drops, shoals, confined channel) | 5/5 | 20. Setting, topography, shore, and channel characteristics conducive to seclusion opportunity | 2/4 | 2 |
| 10. Shore-waterway intimacy (i.e. stream width generally 300 ft wide or less during moderate to low flows) | 4/2 | STREAMFLOW | | 2 |
| 11. High stream bank usability for water contact activities | 4/2 | 21. Streamflow adequate for boating year-round | 2/4 | 2 |
| 12. Rapids difficulty rating II, III during low to moderate flows | 3/9 | 22. Streamflow variation minimal | 1/2 | 1 |
| 13. Rapids generally within same difficulty rating at given flow | 3/9 | PROXIMITY TO POPULATION CENTER | | 1 |
| Relative ranking shown in heavy boxes Value 3 - Great importance Value 2 - Moderate importance Value 1 - Slight importance | | 23. Within 100 miles or closer of major population center | 4/4 | 4 |
| | | ACCESSIBILITY | | 1 |
| | | 24. Vehicular access adequate | 5/5 | 5 |
| | | 25. Vehicular access limited and screened from river | 2/2 | 2 |
| RANKING SCORE | | | | 242 |

River: Pilchuck Creek (168.0)

River segment: 5 miles upstream of Hy. 9 bridge and Pilchuck Creek intersection of Hy 9 bridge (U.S.G.S. Clear Lake)

Gaging station: Pilchuck Creek near Bryant (12168500)

Minimum flow:

Preferred low flow:

Remarks:

Pilchuck Creek is a very narrow isolated stream with beautiful canyon walls and profuse flora growing among the rocks. Waterfalls are frequent. The drops are steep in short succession providing challenging boating. Unfortunately, the water flow is inadequate for boating most of the year.

| WHITEWATER STREAM INVENTORY CRITERIA | | | |
|---|-----------------------------------|--|-----------------------------------|
| RIVERSCAPE INTEREST | 3 | SHORE MODIFICATIONS | 3 |
| 1. Shore upland primarily undeveloped, forestry or limited agriculture | 5 / ¹⁵ 5 | 14. Compatible developments blending with surroundings or screened from river view | 5 / ¹⁵ 5 |
| 2. Scenic shore environs (i.e. gorge, cliffs, canyon, forest, primitive setting) | 5 / ¹⁵ 5 | 15. Roadways not a visual or audible intrusion | 5 / ¹⁵ 5 |
| 3. Diverse views and scenes | 5 / ¹⁵ 5 | 16. No or limited degree of environmental intrusions (i.e. power lines, quarries, excavation, clearcut shore, bridges) | 4 / ¹² 4 |
| 4. Flora diversity and interest | 5 / ¹⁵ 5 | RIVER CHANNEL MODIFICATIONS | 3 |
| 5. Outstanding features (i.e. water falls, snow-capped mountains, pastoral views) | 5 / ¹⁵ 5 | 17. Freedom from riprap, diking, filling, bulkheads, levees, dams | 5 / ¹⁵ 5 |
| 6. Scenic backdrops and views of far places | 3 / ⁹ 3 | POLLUTION EVIDENCE | 2 |
| RIVER CHANNEL INTEREST | 3 | 18. Freedom from waste effluents, trash, dumping, odors | 4 / ⁸ 4 |
| 7. Pools and rapids in relative short succession | 5 / ¹⁵ 5 | PEOPLE SECLUSION OPPORTUNITY | 2 |
| 8. Frequent rock and boulder beds with relatively deep channel passage | 5 / ¹⁵ 5 | 19. Human-use activity near streamway light | 5 / ¹⁰ 5 |
| 9. Channel diversity (i.e. river bends, accretion bars, islands, boulder drops, shoals, confined channel) | 5 / ¹⁵ 5 | 20. Setting, topography, shore, and channel characteristics conducive to seclusion opportunity | 5 / ¹⁰ 5 |
| 10. Shore-waterway intimacy (i.e. stream width generally 300 ft wide or less during moderate to low flows) | 5 / ¹⁵ 5 | STREAMFLOW | 2 |
| 11. High stream bank usability for water contact activities | 5 / ¹⁵ 5 | 21. Streamflow adequate for boating year-round | 1 / ² 1 |
| 12. Rapids difficulty rating II, III during low to moderate flows | 2 / ⁶ 2 | 22. Streamflow variation minimal | 1 / ² 1 |
| 13. Rapids generally within same difficulty rating at given flow | 1 / ³ 1 | PROXIMITY TO POPULATION CENTER | 1 |
| Relative ranking shown in heavy boxes Value 3 - Great importance Value 2 - Moderate importance Value 1 - Slight importance | | 23. Within 100 miles or closer of major population center | 3 / ³ 3 |
| | | ACCESSIBILITY | 1 |
| | | 24. Vehicular access adequate | 1 / ¹ 1 |
| | | 25. Vehicular access limited and screened from river | 5 / ⁵ 5 |
| | | RANKING SCORE | 266 |

River: Sauk River (186.0)
 River segment: Bedal campground to confluence with Whitechuck River
 (U.S.G.S. Whitechuck and Bedal)
 Gaging station: Sauk River, above Whitechuck River, near Darrington (12186000)
 Minimum flow: 800 - 900 cfs
 Preferred low flow: 900 - 1500 cfs

Remarks:

The upper Sauk River is a fairly easy river with impressive background scenery of Sloan Peak, Mt. Pugh, and Whitechuck Mountains. The shore is well forested with only one small riverfront development. Log debris and sweepers in the streambed are common.

| WHITEWATER STREAM INVENTORY CRITERIA | | | |
|---|------|--|------------|
| RIVERSCAPE INTEREST | 3 | SHORE MODIFICATIONS | 3 |
| 1. Shore upland primarily undeveloped, forestry or limited agriculture | 5/15 | 14. Compatible developments blending with surroundings or screened from river view | 5/15 |
| 2. Scenic shore environs (i.e. gorge, cliffs, canyon, forest, primitive setting) | 4/12 | 15. Roadways not a visual or audible intrusion | 5/15 |
| 3. Diverse views and scenes | 5/15 | 16. No or limited degree of environmental intrusions (i.e. power lines, quarries, excavation, clearcut shore, bridges) | 5/15 |
| 4. Flora diversity and interest | 4/12 | RIVER CHANNEL MODIFICATIONS | 3 |
| 5. Outstanding features (i.e. water falls, snow-capped mountains, pastoral views) | 4/12 | 17. Freedom from riprap, diking, filling, bulkheads, levees, dams | 5/15 |
| 6. Scenic backdrops and views of far places | 5/15 | POLLUTION - EVIDENCE | 2 |
| RIVER CHANNEL INTEREST | 3 | 18. Freedom from waste effluents, trash, dumping, odors | 5/10 |
| 7. Pools and rapids in relative short succession | 4/12 | PEOPLE SECLUSION OPPORTUNITY | 2 |
| 8. Frequent rock and boulder beds with relatively deep channel passage | 3/9 | 19. Human-use activity near streamway light | 4/8 |
| 9. Channel diversity (i.e. river bends, accretion bars, islands, boulder drops, shoals, confined channel) | 4/12 | 20. Setting, topography, shore, and channel characteristics conducive to seclusion opportunity | 4/8 |
| 10. Shore-waterway intimacy (i.e. stream width generally 300 ft wide or less during moderate to low flows) | 4/12 | STREAMFLOW | 2 |
| 11. High stream bank usability for water contact activities | 4/12 | 21. Streamflow adequate for boating year-round | 3/6 |
| 12. Rapids difficulty rating II, III during low to moderate flows | 5/15 | 22. Streamflow variation minimal | 2/4 |
| 13. Rapids generally within same difficulty rating at given flow | 5/15 | PROXIMITY TO POPULATION CENTER | 1 |
| Relative ranking shown in heavy boxes Value 3 - Great importance Value 2 - Moderate importance Value 1 - Slight importance | | 23. Within 100 miles or closer of major population center | 3/3 |
| | | ACCESSIBILITY | 1 |
| | | 24. Vehicular access adequate | 3/3 |
| | | 25. Vehicular access limited and screened from river | 5/5 |
| | | RANKING SCORE | 275 |

River: Sauk River (189.0)

River segment: Confluence of Whitechuck River and Sauk River to Darrington (U.S.G.S. Whitechuck and Silverton)

Gaging station: Sauk R near Sauk (12189500) and Suiattle R near Darrington (12188400)

Minimum flow: 1200 - 1400 cfs

Preferred low flow: 1400 - 2200 cfs

Remarks:

The middle Sauk River is a challenging whitewater run with forested shorelands. Below Clear Creek near Darrington, homes and cottages are located near the stream banks. Because the glacier-fed Whitechuck River feeds the river, the Sauk is often a good summer trip.

| WHITewater STREAM INVENTORY CRITERIA | | | | |
|---|---|---|--|-----|
| RIVERSCAPE INTEREST | | 3 | SHORE MODIFICATIONS | 3 |
| 1. Shore upland primarily undeveloped, forestry or limited agriculture | 4 | 12 | 14. Compatible developments blending with surroundings or screened from river view | 4 |
| 2. Scenic shore environs (i.e. gorge, cliffs, canyon, forest, primitive setting) | 4 | 12 | 15. Roadways not a visual or audible intrusion | 4 |
| 3. Diverse views and scenes | 5 | 15 | 16. No or limited degree of environmental intrusions (i.e. power lines, quarries, excavation, clearcut shore, bridges) | 4 |
| 4. Flora diversity and interest | 4 | 12 | RIVER CHANNEL MODIFICATIONS | |
| 5. Outstanding features (i.e. water falls, snow-capped mountains, pastoral views) | 5 | 15 | 17. Freedom from riprap, diking, filling, bulkheads, levees, dams | 4 |
| 6. Scenic backdrops and views of far places | 4 | 12 | POLLUTION EVIDENCE | |
| RIVER CHANNEL INTEREST | | 3 | 18. Freedom from waste effluents, trash, dumping, odors | 4 |
| 7. Pools and rapids in relative short succession | 5 | 15 | PEOPLE SECLUSION OPPORTUNITY | |
| 8. Frequent rock and boulder beds with relatively deep channel passage | 5 | 15 | 19. Human-use activity near streamway light | 3 |
| 9. Channel diversity (i.e. river bends, accretion bars, islands, boulder drops, shoals, confined channel) | 5 | 15 | 20. Setting, topography, shore, and channel characteristics conducive to seclusion opportunity | 4 |
| 10. Shore-waterway intimacy (i.e. stream width generally 300 ft wide or less during moderate to low flows) | 4 | 12 | STREAMFLOW | |
| 11. High stream bank usability for water contact activities | 5 | 15 | 21. Streamflow adequate for boating year-round | 5 |
| 12. Rapids difficulty rating II, III during low to moderate flows | 3 | 9 | 22. Streamflow variation minimal | 3 |
| 13. Rapids generally within same difficulty rating at given flow | 4 | 12 | PROXIMITY TO POPULATION CENTER | |
| Relative ranking shown in heavy boxes Value 3 - Great importance Value 2 - Moderate importance Value 1 - Slight importance | | 23. Within 100 miles or closer of major population center | | 3 |
| | | ACCESSIBILITY | | 1 |
| | | 24. Vehicular access adequate | 4 | |
| | | 25. Vehicular access limited and screened from river | 3 | |
| | | | RANKING SCORE | 267 |

River: Suiattle River (188.0)

River segment: Sulfur Creek campground to road crossing one-half mile upstream of All Creek (U.S.G.S. Huckberry Mt., Downey Mt., Prairie Mt., Glacier Peak)

Gaging station: Suiattle River, above Big Creek, near Darrington (12188400)

Minimum flow:

Preferred low flow:

Remarks:

The river is narrow and steep with lots of log debris, islands, and narrow chutes. Last half of run the river is wider and less difficult. Scenic mountains can be viewed in the background. In the summer the river is turbid with glacial silt.

| WHITEWATER STREAM INVENTORY CRITERIA | | | |
|---|------|--|------------|
| RIVERSCAPE INTEREST | 3 | SHORE MODIFICATIONS | 3 |
| 1. Shore upland primarily undeveloped, forestry or limited agriculture | 5/15 | 14. Compatible developments blending with surroundings or screened from river view | 4/12 |
| 2. Scenic shore environs (i.e. gorge, cliffs, canyon, forest, primitive setting) | 3/9 | 15. Roadways not a visual or audible intrusion | 5/15 |
| 3. Diverse views and scenes | 3/9 | 16. No or limited degree of environmental intrusions (i.e. power lines, quarries, excavation, clearcut shore, bridges) | 5/15 |
| 4. Flora diversity and interest | 3/9 | RIVER CHANNEL MODIFICATIONS | 3 |
| 5. Outstanding features (i.e. water falls, snow-capped mountains, pastoral views) | 4/12 | 17. Freedom from riprap, diking, filling, bulkheads, levees, dams | 4/12 |
| 6. Scenic backdrops and views of far places | 4/12 | POLLUTION EVIDENCE | 2 |
| RIVER CHANNEL INTEREST | 3 | 18. Freedom from waste effluents, trash, dumping, odors (<i>glacial silt</i>) | 2/4 |
| 7. Pools and rapids in relative short succession | 4/12 | PEOPLE SECLUSION OPPORTUNITY | 2 |
| 8. Frequent rock and boulder beds with relatively deep channel passage | 3/9 | 19. Human-use activity near streamway light | 4/8 |
| 9. Channel diversity (i.e. river bends, accretion bars, islands, boulder drops, shoals, confined channel) | 3/9 | 20. Setting, topography, shore, and channel characteristics conducive to seclusion opportunity | 4/8 |
| 10. Shore-waterway intimacy (i.e. stream width generally 300 ft wide or less during moderate to low flows) | 3/9 | STREAMFLOW | 2 |
| 11. High stream bank usability for water contact activities | 4/12 | 21. Streamflow adequate for boating year-round | 4/8 |
| 12. Rapids difficulty rating II, III during low to moderate flows | 3/9 | 22. Streamflow variation minimal | 3/6 |
| 13. Rapids generally within same difficulty rating at given flow | 4/12 | PROXIMITY TO POPULATION CENTER | 1 |
| Relative ranking shown in heavy boxes Value 3 - Great importance Value 2 - Moderate importance Value 1 - Slight importance | | 23. Within 100 miles or closer of major population center | 3/3 |
| | | ACCESSIBILITY | 1 |
| | | 24. Vehicular access adequate | 3/3 |
| | | 25. Vehicular access limited and screened from river | 4/4 |
| | | RANKING SCORE | 236 |

River: Methow River (449.0)
 River segment: Wintrop to Twisp (U.S.G.S. Methow)

Gaging station: Methow River near Pateros (12449950)
 Minimum flow:
 Preferred low flow:

Remarks:

The upper Methow river is a pleasant run through pastoral countryside with views of high semi-barren, rolling hills in the background. Gravel bars and beaches are numerous and black cottonwood trees are scattered along the streambanks. The road is close to the river in many places.

| WHITEWATER STREAM INVENTORY CRITERIA | | | |
|---|------|---|------|
| RIVERSCAPE INTEREST | 3 | SHORE MODIFICATIONS | 3 |
| 1. Shore upland primarily undeveloped, forestry or limited agriculture | 2/6 | 14. Compatible developments blending with surroundings or screened from river view | 3/9 |
| 2. Scenic shore environs (i.e. gorge, cliffs, canyon, forest, primitive setting) | 3/9 | 15. Roadways not a visual or audible intrusion | 2/6 |
| 3. Diverse views and scenes | 3/9 | 16. No or limited degree of environmental intrusions (i.e. power lines, quarries, excavation, clearcut shores, bridges) | 3/9 |
| 4. Flora diversity and interest | 2/6 | RIVER CHANNEL MODIFICATIONS | 3 |
| 5. Outstanding features (i.e. water falls, snow-capped mountains, pastoral views) | 3/9 | 17. Freedom from riprap, diking, filling, bulkheads, levees, dams | 3/9 |
| 6. Scenic backdrops and views of far places | 4/12 | POLLUTION EVIDENCE | 2 |
| RIVER CHANNEL INTEREST | 3 | 18. Freedom from waste effluents, trash, dumping, odors | 2/4 |
| 7. Pools and rapids in relative short succession | 1/3 | PEOPLE SECLUSION OPPORTUNITY | 2 |
| 8. Frequent rock and boulder beds with relatively deep channel passage | 1/3 | 19. Human-use activity near streamway light | 3/6 |
| 9. Channel diversity (i.e. river bends, accretion bars, islands, boulder drops, shoals, confined channel) | 2/6 | 20. Setting, topography, shore, and channel characteristics conducive to seclusion opportunity | 2/4 |
| 10. Shore-waterway intimacy (i.e. stream width generally 300 ft wide or less during moderate to low flows) | 3/6 | STREAMFLOW | 2 |
| 11. High stream bank usability for water contact activities | 4/12 | 21. Streamflow adequate for boating year-round | 4/8 |
| 12. Rapids difficulty rating II, III during low to moderate flows | 2/6 | 22. Streamflow variation minimal | 5/10 |
| 13. Rapids generally within same difficulty rating at given flow | 5/15 | PROXIMITY TO POPULATION CENTER | 1 |
| Relative ranking shown in heavy boxes Value 3 - Great importance Value 2 - Moderate importance Value 1 - Slight importance | | 23. Within 100 miles or closer of major population center | 1/1 |
| | | ACCESSIBILITY | 1 |
| | | 24. Vehicular access adequate | 5/5 |
| | | 25. Vehicular access limited and screened from river | 1/1 |
| | | RANKING SCORE | 174 |

River: Methow River (449.1)
 River segment: Twisp to Gold Creek (U.S.G.S. Methow)

Gaging station: Methow River near Pateros (12449950)
 Minimum flow: 600 - 900 cfs
 Preferred low flow:

Remarks:

The middle Methow River is an easy whitewater stream with swift moving current. The countryside is open with scattered forest, orchard and pastoral land. Distant hills are viewed from the river and rock bluffs near the river are common. The roadway is often visible from the river. Unfortunately, discarded auto bodies are scattered along the shore in many places.

| WHITEWATER STREAM INVENTORY CRITERIA | | | |
|---|------|--|------|
| RIVERSCAPE INTEREST | 3 | SHORE MODIFICATIONS | 3 |
| 1. Shore upland primarily undeveloped, forestry or limited agriculture | 2/6 | 14. Compatible developments blending with surroundings or screened from river view | 3/9 |
| 2. Scenic shore environs (i.e. gorge, cliffs, canyon, forest, primitive setting) | 3/9 | 15. Roadways not a visual or audible intrusion | 2/6 |
| 3. Diverse views and scenes | 3/9 | 16. No or limited degree of environmental intrusions (i.e. power lines, quarries, excavation, clearcut shore, bridges) | 3/9 |
| 4. Flora diversity and interest | 2/6 | RIVER CHANNEL MODIFICATIONS | 3 |
| 5. Outstanding features (i.e. water falls, snow-capped mountains, pastoral views) | 3/9 | 17. Freedom from riprap, diking, filling, bulkheads, levees, dams | 3/9 |
| 6. Scenic backdrops and views of far places | 4/12 | POLLUTION-EVIDENCE | 2 |
| RIVER CHANNEL INTEREST | 3 | 18. Freedom from waste effluents, trash, dumping, odors | 2/4 |
| 7. Pools and rapids in relative short succession | 2/6 | PEOPLE SECLUSION OPPORTUNITY | 2 |
| 8. Frequent rock and boulder beds with relatively deep channel passage | 1/3 | 19. Human-use activity near streamway light | 3/6 |
| 9. Channel diversity (i.e. river bends, accretion bars, islands, boulder drops, shoals, confined channel) | 2/6 | 20. Setting, topography, shore, and channel characteristics conducive to seclusion opportunity | 2/4 |
| 10. Shore-waterway intimacy (i.e. stream width generally 300 ft wide or less during moderate to low flows) | 3/9 | STREAMFLOW | 2 |
| 11. High stream bank usability for water contact activities | 5/15 | 21. Streamflow adequate for boating year-round | 4/8 |
| 12. Rapids difficulty rating II, III during low to moderate flows | 3/9 | 22. Streamflow variation minimal | 5/10 |
| 13. Rapids generally within same difficulty rating at given flow | 5/15 | PROXIMITY TO POPULATION CENTER | 1 |
| Relative ranking shown in heavy boxes Value 3 - Great importance Value 2 - Moderate importance Value 1 - Slight importance | | 23. Within 100 miles or closer of major population center | 1/1 |
| | | ACCESSIBILITY | 1 |
| | | 24. Vehicular access adequate | 5/5 |
| | | 25. Vehicular access limited and screened from river | 1/1 |
| | | RANKING SCORE | 186 |

River: Methow River (449.2)
 River segment: Gold Creek to first bridge above Pateros
 (U.S.G.S. Methow)
 Gaging station: Methow River near Pateros (12449950)
 Minimum flow: 500 - 800 cfs
 Preferred low flow:

Remarks:

The lower Methow River is an enjoyable trip of easy-to-moderate difficulty with scenic bluffs along the river. This section is more narrow requiring a little less water for minimum flow than upper portion; the lower Methow also has more rapids and "bouldery" drops. The frequent sand and gravel bars make ideal campsites. Trash dumping along shores is common.

| WHITewater STREAM INVENTORY CRITERIA | | | |
|---|------|--|------|
| RIVERSCAPE INTEREST | 3 | SHORE MODIFICATIONS | 3 |
| 1. Shore upland primarily undeveloped, forestry or limited agriculture | 3/9 | 14. Compatible developments blending with surroundings or screened from river view | 3/9 |
| 2. Scenic shore environs (i.e. gorge, cliffs, canyon, forest, primitive setting) | 3/9 | 15. Roadways not a visual or audible intrusion | 2/6 |
| 3. Diverse views and scenes | 3/9 | 16. No or limited degree of environmental intrusions (i.e. power lines, quarries, excavation, clearcut shore, bridges) | 3/9 |
| 4. Flora diversity and interest | 2/6 | RIVER CHANNEL MODIFICATIONS | 3 |
| 5. Outstanding features (i.e. water falls, snow-capped mountains, pastoral views) | 3/9 | 17. Freedom from riprap, diking, filling, bulkheads, levees, dams | 3/9 |
| 6. Scenic backdrops and views of far places | 4/12 | POLLUTION EVIDENCE | 2 |
| RIVER CHANNEL INTEREST | 3 | 18. Freedom from waste effluents, trash, dumping, odors | 2/4 |
| 7. Pools and rapids in relative short succession | 3/9 | PEOPLE SECLUSION OPPORTUNITY | 2 |
| 8. Frequent rock and boulder beds with relatively deep channel passage | 2/6 | 19. Human-use activity near streamway light | 3/6 |
| 9. Channel diversity (i.e. river bends, accretion bars, islands, boulder drops, shoals, confined channel) | 3/9 | 20. Setting, topography, shore, and channel characteristics conducive to seclusion opportunity | 3/6 |
| 10. Shore-waterway intimacy (i.e. stream width generally 300 ft wide or less during moderate to low flows) | 3/9 | STREAMFLOW | 2 |
| 11. High stream bank usability for water contact activities | 5/15 | 21. Streamflow adequate for boating year-round | 4/8 |
| 12. Rapids difficulty rating II, III during low to moderate flows | 4/12 | 22. Streamflow variation minimal | 5/10 |
| 13. Rapids generally within same difficulty rating at given flow | 3/9 | PROXIMITY TO POPULATION CENTER | 1 |
| Relative ranking shown in heavy boxes Value 3 - Great importance Value 2 - Moderate importance Value 1 - Slight importance | | 23. Within 100 miles or closer of major population center | 1/1 |
| | | ACCESSIBILITY | 1 |
| | | 24. Vehicular access adequate | 5/5 |
| | | 25. Vehicular access limited and screened from river | 1/1 |
| | | RANKING SCORE | 197 |

River: Chiwawa River (457.0)
 River segment: Goose Creek Campground to confluence with Wenatchee River
 (U.S.G.S. Chiwaukum)
 Gaging station: Wenatchee River at Plain (12457000)
 Minimum flow:
 Preferred low flow:

Remarks:

The Chiwawa is a small winding stream with continuous gradient. Large rocks dot the streambed. The shore is heavily forested and is very scenic, especially the first two or three miles of run.

| WHITEWATER STREAM INVENTORY CRITERIA | | | | | |
|---|---|----|--|-----|---|
| RIVERSCAPE INTEREST | | 3 | SHORE MODIFICATIONS | 3 | |
| 1. Shore upland primarily undeveloped, forestry or limited agriculture | 4 | 12 | 14. Compatible developments blending with surroundings or screened from river view | 4 | |
| 2. Scenic shore environs (i.e. gorge, cliffs, canyon, forest, primitive setting) | 4 | 12 | 15. Roadways not a visual or audible intrusion | 5 | |
| 3. Diverse views and scenes | 3 | 9 | 16. No or limited degree of environmental intrusions (i.e. power lines, quarries, excavation, clearcut shore, bridges) | 4 | |
| 4. Flora diversity and interest | 4 | 12 | RIVER CHANNEL MODIFICATIONS | | |
| 5. Outstanding features (i.e. water falls, snow-capped mountains, pastoral views) | 3 | 9 | 17. Freedom from riprap, diking, filling, bulkheads, levees, dams | 5 | |
| 6. Scenic backdrops and views of far places | 3 | 9 | POLLUTION-EVIDENCE | | |
| RIVER CHANNEL INTEREST | | 3 | 18. Freedom from waste effluents, trash, dumping, odors | 5 | |
| 7. Pools and rapids in relative short succession | 3 | 9 | PEOPLE SECLUSION OPPORTUNITY | | |
| 8. Frequent rock and boulder beds with relatively deep channel passage | 3 | 9 | 19. Human-use activity near streamway light | 4 | |
| 9. Channel diversity (i.e. river bends, accretion bars, islands, boulder drops, shoals, confined channel) | 3 | 9 | 20. Setting, topography, shore, and channel characteristics conducive to seclusion opportunity | 4 | |
| 10. Shore-waterway intimacy (i.e. stream width generally 300 ft wide or less during moderate to low flows) | 5 | 15 | STREAMFLOW | | |
| 11. High stream bank usability for water contact activities | 4 | 12 | 21. Streamflow adequate for boating year-round | 1 | |
| 12. Rapids difficulty rating II, III during low to moderate flows | 4 | 12 | 22. Streamflow variation minimal | 3 | |
| 13. Rapids generally within same difficulty rating at given flow | 4 | 12 | PROXIMITY TO POPULATION CENTER | | |
| Relative ranking shown in heavy boxes Value 3 - Great importance Value 2 - Moderate importance Value 1 - Slight importance | | | 23. Within 100 miles or closer of major population center | 2 | |
| | | | ACCESSIBILITY | | 1 |
| | | | 24. Vehicular access adequate | 3 | 3 |
| | | | 25. Vehicular access limited and screened from river | 4 | 4 |
| RANKING SCORE | | | | 229 | |

River: Wenatchee River (457.1)

River segment: Plain to Tumwater campground at Stevens Pass highway
(U.S.G.S. Leavenworth and Chiwaukum)

Gaging station: Wenatchee River near Plain (12457000)

Minimum flow:

Preferred low flow:

Remarks:

The upper Wenatchee is an easy whitewater run with occasional small ledge drops. The river is wide, often 300 feet or more. Riverfront homes are scattered along the shore. This is a favorite fall river run because of autumn foliage of the aspen and black cottonwood trees.

| WHITEWATER STREAM INVENTORY CRITERIA | | | |
|---|------|--|------|
| RIVERSCAPE INTEREST | 3 | SHORE MODIFICATIONS | 3 |
| 1. Shore upland primarily undeveloped, forestry or limited agriculture | 4/12 | 14. Compatible developments blending with surroundings or screened from river view | 3/9 |
| 2. Scenic shore environs (i.e. gorge, cliffs, canyon, forest, primitive setting) | 4/12 | 15. Roadways not a visual or audible intrusion | 4/12 |
| 3. Diverse views and scenes | 3/9 | 16. No or limited degree of environmental intrusions (i.e. power lines, quarries, excavation, clearcut shore, bridges) | 3/9 |
| 4. Flora diversity and interest | 3/9 | RIVER CHANNEL MODIFICATIONS | 3 |
| 5. Outstanding features (i.e. water falls, snow-capped mountains, pastoral views) | 3/9 | 17. Freedom from riprap, diking, filling, bulkheads, levees, dams | 4/12 |
| 6. Scenic backdrops and views of far places | 3/9 | POLLUTION EVIDENCE | 2 |
| RIVER CHANNEL INTEREST | 3 | 18. Freedom from waste effluents, trash, dumping, odors | 4/8 |
| 7. Pools and rapids in relative short succession | 2/6 | PEOPLE SECLUSION OPPORTUNITY | 3 |
| 8. Frequent rock and boulder beds with relatively deep channel passage | 2/6 | 19. Human-use activity near streamway light | 3/6 |
| 9. Channel diversity (i.e. river bends, accretion bars, islands, boulder drops, shoals, confined channel) | 2/6 | 20. Setting, topography, shore, and channel characteristics conducive to seclusion opportunity | 3/6 |
| 10. Shore-waterway intimacy (i.e. stream width generally 300 ft wide or less during moderate to low flows) | 2/6 | STREAMFLOW | 2 |
| 11. High stream bank usability for water contact activities | 4/12 | 21. Streamflow adequate for boating year-round | 4/8 |
| 12. Rapids difficulty rating II, III during low to moderate flows | 3/9 | 22. Streamflow variation minimal | 4/8 |
| 13. Rapids generally within same difficulty rating at given flow | 5/15 | PROXIMITY TO POPULATION CENTER | 1 |
| Relative ranking shown in heavy boxes Value 3 - Great importance Value 2 - Moderate importance Value 1 - Slight importance | | 23. Within 100 miles or closer of major population center | 2/2 |
| | | ACCESSIBILITY | 1 |
| | | 24. Vehicular access adequate | 4/4 |
| | | 25. Vehicular access limited and screened from river | 4/4 |
| | | RANKING SCORE | 208 |

River: Wenatchee River (457.2)

River segment: Tumwater campground on Stevens Pass highway to Leavenworth at Icicle Creek Road

Gaging station: Wenatchee River at Plain (12457000)

Minimum flow:

Preferred low flow:

Remarks:

Tumwater Canyon is an extremely difficult section of whitewater which has plunging drops and chutes. Stevens Pass borders one side of river and the road riprap has changed natural character of shore; however, the south shore is very scenic with large rocks and forested cover. Much of the shore is within Wenatchee National Forest.

| WHITewater STREAM INVENTORY CRITERIA | | | | |
|---|----------------|---|--|----------------|
| RIVERSCAPE INTEREST | | 3 | SHORE MODIFICATIONS | 3 |
| 1. Shore upland primarily undeveloped, forestry or limited agriculture | 4 2 | 4 | 14. Compatible developments blending with surroundings or screened from river view | 3 9 |
| 2. Scenic shore environs (i.e. gorge, cliffs, canyon, forest, primitive setting) | 3 9 | 3 | 15. Roadways not a visual or audible intrusion | 1 3 |
| 3. Diverse views and scenes | 3 9 | 3 | 16. No or limited degree of environmental intrusions (i.e. power lines, quarries, excavation, clearcut shore, bridges) | 3 9 |
| 4. Flora diversity and interest | 3 9 | 3 | RIVER CHANNEL MODIFICATIONS | |
| 5. Outstanding features (i.e. water falls, snow-capped mountains, pastoral views) | 4 2 | 4 | 17. Freedom from riprap, diking, filling, bulkheads, levees, dams | 2 6 |
| 6. Scenic backdrops and views of far places | 5 5 | 5 | POLLUTION - EVIDENCE | |
| RIVER CHANNEL INTEREST | | 3 | 18. Freedom from waste effluents, trash, dumping, odors | 4 8 |
| 7. Pools and rapids in relative short succession | 4 2 | 4 | PEOPLE SECLUSION OPPORTUNITY | |
| 8. Frequent rock and boulder beds with relatively deep channel passage | 5 5 | 5 | 19. Human-use activity near streamway light | 2 4 |
| 9. Channel diversity (i.e. river bends, accretion bars, islands, boulder drops, shoals, confined channel) | 3 9 | 3 | 20. Setting, topography, shore, and channel characteristics conducive to seclusion opportunity | 2 4 |
| 10. Shore-waterway intimacy (i.e. stream width generally 300 ft wide or less during moderate to low flows) | 4 2 | 4 | STREAMFLOW | |
| 11. High stream bank usability for water contact activities | 2 6 | 2 | 21. Streamflow adequate for boating year-round | 2 4 |
| 12. Rapids difficulty rating II, III during low to moderate flows | 1 3 | 1 | 22. Streamflow variation minimal | 4 8 |
| 13. Rapids generally within same difficulty rating at given flow | 1 3 | 1 | PROXIMITY TO POPULATION CENTER | |
| Relative ranking shown in heavy boxes Value 3 - Great importance Value 2 - Moderate importance Value 1 - Slight importance | | 23. Within 100 miles or closer of major population center | | 2 2 |
| | | ACCESSIBILITY | | 1 |
| | | 24. Vehicular access adequate | 5 5 | |
| | | 25. Vehicular access limited and screened from river | | 1 1 |
| RANKING SCORE | | | | 180 |

River: Wenatchee River (459.0)
 River segment: Leavenworth at Icicle Creek road to Peshastin
 (U.S.G.S. Leavenworth)
 Gaging station: Wenatchee River at Peshastin (12459000)
 Minimum flow: 1500 - 2000 cfs
 Preferred low flow:

Remarks:

This section of Wenatchee River has an open view with long pools of fast moving water between rapids. Chumstick Rapid, consisting of a series of overlapping ledges, is a very wide part of the river and requires more water to float than rest of the river. The shore is semi-developed occupied by homes, the town of Leavenworth, orchards, and commercial buildings.

| WHITEWATER STREAM INVENTORY CRITERIA | | | | |
|---|------|--|---|-----|
| RIVERSCAPE INTEREST | | 3 | SHORE MODIFICATIONS | 3 |
| 1. Shore upland primarily undeveloped, forestry or limited agriculture | 1/3 | 14. Compatible developments blending with surroundings or screened from river view | 2/6 | 2/6 |
| 2. Scenic shore environs (i.e. gorge, cliffs, canyon, forest, primitive setting) | 2/6 | 15. Roadways not a visual or audible intrusion | 3/9 | 3/9 |
| 3. Diverse views and scenes | 3/9 | 16. No or limited degree of environmental intrusions (i.e. power lines, quarries, excavation, clearcut shore, bridges) | 1/3 | 1/3 |
| 4. Flora diversity and interest | 2/6 | RIVER CHANNEL MODIFICATIONS | | 3 |
| 5. Outstanding features (i.e. water falls, snow-capped mountains, pastoral views) | 3/9 | 17. Freedom from riprap, diking, filling, bulkheads, levees, dams | 2/6 | 2/6 |
| 6. Scenic backdrops and views of far places | 3/9 | POLLUTION EVIDENCE | | 2 |
| RIVER CHANNEL INTEREST | | 3 | 18. Freedom from waste effluents, trash, dumping, odors | 3/6 |
| 7. Pools and rapids in relative short succession | 2/6 | PEOPLE SECLUSION OPPORTUNITY | | 2 |
| 8. Frequent rock and boulder beds with relatively deep channel passage | 2/6 | 19. Human-use activity near streamway light | 2/4 | 2/4 |
| 9. Channel diversity (i.e. river bends, accretion bars, islands, boulder drops, shoals, confined channel) | 3/9 | 20. Setting, topography, shore, and channel characteristics conducive to seclusion opportunity | 2/4 | 2/4 |
| 10. Shore-waterway intimacy (i.e. stream width generally 300 ft wide or less during moderate to low flows) | 2/6 | STREAMFLOW | | 2 |
| 11. High stream bank usability for water contact activities | 2/6 | 21. Streamflow adequate for boating year-round | 4/8 | 4/8 |
| 12. Rapids difficulty rating II, III during low to moderate flows | 4/12 | 22. Streamflow variation minimal | 4/8 | 4/8 |
| 13. Rapids generally within same difficulty rating at given flow | 3/9 | PROXIMITY TO POPULATION CENTER | | 1 |
| Relative ranking shown in heavy boxes Value 3 - Great importance Value 2 - Moderate importance Value 1 - Slight importance | | 23. Within 100 miles or closer of major population center | 2/2 | 2/2 |
| | | ACCESSIBILITY | | 1 |
| | | 24. Vehicular access adequate | 4/4 | 4/4 |
| | | 25. Vehicular access limited and screened from river | 2/2 | 2/2 |
| RANKING SCORE | | | | 158 |

River: Yakima River (479.0)
 River segment: Teanaway River Junction to Thorp Road Bridge
 (U.S.G.S. Thorp and Cle Elum)
 Gaging station: Yakima River at Cle Elum (12479500)
 Minimum flow:
 Preferred low flow:

Remarks:

Yakima River is a favorite summer river because of suitable flows released for irrigation from Cle Elum, Kachess, and Kacheelus Reservoirs. In fall the yellow colors from aspen and black cottonwood trees along the stream banks provide a colorful trip. Mt. Stuart can be viewed from one point in the river. Basalt and sandstone outcrops provide interesting geology and scenic backdrops. The upland shore is mostly open grazing land. The river is very easy whitewater and makes an ideal trip for families and beginner paddlers. The main distractions are two rail tracks (one on each side of the river in places) and the highway which parallel the river in many places. Riprap is quite common along much of the river.

| WHITEWATER STREAM INVENTORY CRITERIA | | | | |
|---|-----------------|--|--|-----------------|
| RIVERSCAPE INTEREST | | 3 | SHORE MODIFICATIONS | 3 |
| 1. Shore upland primarily undeveloped, forestry or limited agriculture | 3 9 | | 14. Compatible developments blending with surroundings or screened from river view | 3 9 |
| 2. Scenic shore environs (i.e. gorge, cliffs, canyon, forest, primitive setting) | 3 9 | | 15. Roadways not a visual or audible intrusion | 2 6 |
| 3. Diverse views and scenes | 3 9 | | 16. No or limited degree of environmental intrusions (i.e. power lines, quarries, excavation, clearcut shore, bridges) | 2 6 |
| 4. Flora diversity and interest | 2 6 | | RIVER CHANNEL MODIFICATIONS | |
| 5. Outstanding features (i.e. water falls, snow-capped mountains, pastoral views) | 2 6 | | 17. Freedom from riprap, diking, filling, bulkheads, levees, dams | 3 9 |
| 6. Scenic backdrops and views of far places | 4 12 | | POLLUTION -EVIDENCE | |
| RIVER CHANNEL INTEREST | | 3 | 18. Freedom from waste effluents, trash, dumping, odors | 3 6 |
| 7. Pools and rapids in relative short succession | 1 3 | | PEOPLE SECLUSION OPPORTUNITY | |
| 8. Frequent rock and boulder beds with relatively deep channel passage | 1 3 | | 19. Human-use activity near streamway light | 3 6 |
| 9. Channel diversity (i.e. river bends, accretion bars, islands, boulder drops, shoals, confined channel) | 2 6 | | 20. Setting, topography, shore, and channel characteristics conducive to seclusion opportunity | 2 4 |
| 10. Shore-waterway intimacy (i.e. stream width generally 300 ft wide or less during moderate to low flows) | 2 6 | | STREAMFLOW | |
| 11. High stream bank usability for water contact activities | 3 9 | | 21. Streamflow adequate for boating year-round | 5 10 |
| 12. Rapids difficulty rating II, III during low to moderate flows | 3 9 | | 22. Streamflow variation minimal | 5 10 |
| 13. Rapids generally within same difficulty rating at given flow | 5 15 | | PROXIMITY TO POPULATION CENTER | |
| Relative ranking shown in heavy boxes Value 3 - Great importance Value 2 - Moderate importance Value 1 - Slight importance | | | 23. Within 100 miles or closer of major population center | 2 2 |
| | | ACCESSIBILITY | | 1 |
| | | 24. Vehicular access adequate | 5 5 | |
| | | 25. Vehicular access limited and screened from river | 2 2 | |
| | | RANKING SCORE | | |

River: Cle Elum (480.0)

River segment: Salmon La Sac campground to bridge above Cle Elum Lake (U.S.G.S. Kachess Lake)

Gaging station: Teanaway River, below Forks, near Cle Elum (12480000)

Minimum flow:

Preferred low flow:

Remarks:

This part of the Cle Elum River is a straight, fast moving stream with few rock and boulder beds. Background mountain scenery can be viewed from the river. Campgrounds, hiking, trails, and scenic viewpoints are found along the shore. A whitewater slalom race at Salmon La Sac is a popular springtime event. No gaging station exists on the Cle Elum River below Cle Elum Lake, so Teanaway River was used as a rough indication of the water conditions of Cle Elum River.

| WHITEWATER STREAM INVENTORY CRITERIA | | | |
|---|------|--|------|
| RIVERSCAPE INTEREST | 3 | SHORE MODIFICATIONS | 3 |
| 1. Shore upland primarily undeveloped, forestry or limited agriculture | 12/4 | 14. Compatible developments blending with surroundings or screened from river view | 12/4 |
| 2. Scenic shore environs (i.e. gorge, cliffs, canyon, forest, primitive setting) | 12/4 | 15. Roadways not a visual or audible intrusion | 9/3 |
| 3. Diverse views and scenes | 9/3 | 16. No or limited degree of environmental intrusions (i.e. power lines, quarry, excavation, clearcut shore, bridges) | 12/4 |
| 4. Flora diversity and interest | 9/3 | RIVER CHANNEL MODIFICATIONS | 3 |
| 5. Outstanding features (i.e. water falls, snow-capped mountains, pastoral views) | 9/3 | 17. Freedom from riprap, diking, filling, bulkheads, levees, dams | 15/5 |
| 6. Scenic backdrops and views of far places | 15/5 | POLLUTION EVIDENCE | 2 |
| RIVER CHANNEL INTEREST | 3 | 18. Freedom from waste effluents, trash, dumping, odors | 10/5 |
| 7. Pools and rapids in relative short succession | 9/3 | PEOPLE SECLUSION OPPORTUNITY | 2 |
| 8. Frequent rock and boulder beds with relatively deep channel passage | 6/2 | 19. Human-use activity near streamway light | 6/3 |
| 9. Channel diversity (i.e. river bends, accretion bars, islands, boulder drops, shoals, confined channel) | 9/3 | 20. Setting, topography, shore, and channel characteristics conducive to seclusion opportunity | 4/2 |
| 10. Shore-waterway intimacy (i.e. stream width generally 300 ft wide or less during moderate to low flows) | 9/3 | STREAMFLOW | 2 |
| 11. High stream bank usability for water contact activities | 9/3 | 21. Streamflow adequate for boating year-round | 4/2 |
| 12. Rapids difficulty rating II, III during low to moderate flows | 5/5 | 22. Streamflow variation minimal | 6/3 |
| 13. Rapids generally within same difficulty rating at given flow | 15/5 | PROXIMITY TO POPULATION CENTER | 1 |
| Relative ranking shown in heavy boxes Value 3 - Great importance Value 2 - Moderate importance Value 1 - Slight importance | | 23. Within 100 miles or closer of major population center | 2/2 |
| | | ACCESSIBILITY | 1 |
| | | 24. Vehicular access adequate | 5/5 |
| | | 25. Vehicular access limited and screened from river | 3/3 |
| | | RANKING SCORE | 226 |

River: Teanaway River (480.1)

River segment: 0.3 miles above Teanaway River on North Fork Teanaway River to Masterson Road (U.S.G.S. Mt. Stuart and Cle Elum)

Gaging station: Teanaway River, below Forks, near Cle Elum (12480000)

Minimum flow:

Preferred low flow:

Remarks:

The Teanaway River is a narrow stream with a steep gradient. The drops are a series of ledges and the river channel is often braided.

| WHITEWATER STREAM INVENTORY CRITERIA | | | |
|---|--|--|------|
| RIVERSCAPE INTEREST | 3 | SHORE MODIFICATIONS | 3 |
| 1. Shore upland primarily undeveloped, forestry or limited agriculture | 4/12 | 14. Compatible developments blending with surroundings or screened from river view | 4/12 |
| 2. Scenic shore environs (i.e. gorge, cliffs, canyon, forest, primitive setting) | 4/12 | 15. Roadways not a visual or audible intrusion | 4/12 |
| 3. Diverse views and scenes | 3/9 | 16. No or limited degree of environmental intrusions (i.e. power lines, quarries, excavation, clearcut shore, bridges) | 4/12 |
| 4. Flora diversity and interest | 3/9 | RIVER CHANNEL MODIFICATIONS | 3 |
| 5. Outstanding features (i.e. water falls, snow-capped mountains, pastoral views) | 3/9 | 17. Freedom from riprap, diking, filling, bulkheads, levees, dams | 4/12 |
| 6. Scenic backdrops and views of far places | 3/9 | POLLUTION-EVIDENCE | 2 |
| RIVER CHANNEL INTEREST | 3 | 18. Freedom from waste effluents, trash, dumping, odors | 4/8 |
| 7. Pools and rapids in relative short succession | 4/12 | PEOPLE SECLUSION OPPORTUNITY | 2 |
| 8. Frequent rock and boulder beds with relatively deep channel passage | 3/9 | 19. Human-use activity near streamway light | 3/6 |
| 9. Channel diversity (i.e. river bends, accretion bars, islands, boulder drops, shoals, confined channel) | 3/9 | 20. Setting, topography, shore, and channel characteristics conducive to seclusion opportunity | 3/6 |
| 10. Shore-waterway intimacy (i.e. stream width generally 300 ft wide or less during moderate to low flows) | 4/12 | STREAMFLOW | 2 |
| 11. High stream bank usability for water contact activities | 4/12 | 21. Streamflow adequate for boating year-round | 2/4 |
| 12. Rapids difficulty rating II, III during low to moderate flows | 4/12 | 22. Streamflow variation minimal | 3/6 |
| 13. Rapids generally within same difficulty rating at given flow | 4/12 | PROXIMITY TO POPULATION CENTER | 1 |
| Relative ranking shown in heavy boxes Value 3 - Great importance Value 2 - Moderate importance Value 1 - Slight importance | | 23. Within 100 miles or closer of major population center | 2/2 |
| | | ACCESSIBILITY | 1 |
| | | 24. Vehicular access adequate | 3/3 |
| | 25. Vehicular access limited and screened from river | 4/4 | |
| RANKING SCORE | | | 225 |

River: Tieton River (491.0)
 River segment: Tieton Dam to Tieton Canal diversion headworks
 (U.S.G.S. Tieton Basin and Weddel)
 Gaging station: Tieton River at Tieton Dam, near Naches (12491500)
 Minimum flow:
 Preferred low flow:

Remarks:

The Tieton River is a favorite summer river because of suitable flows released for irrigation from Rimrock reservoir. The most consistent flows occur from middle of July to September during the irrigation season; however, the river is subject to sudden fluctuations. The river is very steep and the high current velocities provide an exciting run. The streambed is narrow and has few side eddies. Heavily-traveled Hy. 12 frequently is in view from the river. Campgrounds are frequent on left bank. The right bank of river is primarily undeveloped forest land.

| WHITEWATER STREAM INVENTORY CRITERIA | | | | |
|--|------|---|--|------|
| RIVERSCAPE INTEREST | | 3 | SHORE MODIFICATIONS | 3 |
| 1. Shore upland primarily undeveloped, forestry or limited agriculture | 4/12 | | 14. Compatible developments blending with surroundings or screened from river view | 4/12 |
| 2. Scenic shore environs (i.e. gorge, cliffs, canyon, forest, primitive setting) | 3/9 | | 15. Roadways not a visual or audible intrusion | 2/6 |
| 3. Diverse views and scenes | 3/9 | | 16. No or limited degree of environmental intrusions (i.e. power lines, quarries, excavation, clearcut shore, bridges) | 3/9 |
| 4. Flora diversity and interest | 3/9 | | RIVER CHANNEL MODIFICATIONS | 3 |
| 5. Outstanding features (i.e. water falls, snow-capped mountains, pastoral views) | 3/9 | | 17. Freedom from riprap, diking, filling, bulkheads, levees, dams | 3/9 |
| 6. Scenic backdrops and views of far places | 4/12 | | POLLUTION EVIDENCE | 2 |
| RIVER CHANNEL INTEREST | 3 | | 18. Freedom from waste effluents, trash, dumping, odors | 4/8 |
| 7. Pools and rapids in relative short succession | 3/9 | | PEOPLE SECLUSION OPPORTUNITY | 2 |
| 8. Frequent rock and boulder beds with relatively deep channel passage | 2/6 | | 19. Human-use activity near streamway light | 2/4 |
| 9. Channel diversity (i.e. river bends, accretion bars, islands, boulder drops, shoals, confined channel) | 3/9 | | 20. Setting, topography, shore, and channel characteristics conducive to seclusion opportunity | 2/4 |
| 10. Shore-waterway intimacy (i.e. stream width generally 300 ft wide or less during moderate to low flows) | 5/5 | | STREAMFLOW | 2 |
| 11. High stream bank usability for water contact activities | 4/12 | | 21. Streamflow adequate for boating year-round | 3/6 |
| 12. Rapids difficulty rating II, III during low to moderate flows | 4/12 | | 22. Streamflow variation minimal | 3/6 |
| 13. Rapids generally within same difficulty rating at given flow | 5/5 | | PROXIMITY TO POPULATION CENTER | 1 |
| | | | 23. Within 100 miles or closer of major population center | 2/2 |
| Relative ranking shown in heavy boxes | | | ACCESSIBILITY | 1 |
| Value 3 - Great importance | | | 24. Vehicular access adequate | 5/5 |
| Value 2 - Moderate importance | | | 25. Vehicular access limited and screened from river | 2/2 |
| Value 1 - Slight importance | | | | |
| | | | RANKING SCORE | 211 |

YAKIMA RIVER BASIN

River: Tieton River (492.0)

River segment: Tieton at headworks of Tieton Canal to 1st bridge below headworks of Tieton Canal on Hy 12 (U.S.G.S. Tieton Basin and Weddel)

Gaging station: Tieton R. at headworks of Tieton Canal, near Naches (12492500)

Minimum flow:

Preferred low flow:

Remarks:

During the peak summer irrigation season typical diversions of 200-300 cfs from lower Tieton river would not affect the kayaking suitability since released flows are usually in excess of 1000 cfs. The lower run has more large rock and boulders in the streambed providing more eddies. The distant mountain views are more spectacular from the lower part of the river.

| WHITEWATER STREAM INVENTORY CRITERIA | | | |
|---|--------------------|--|-------------------|
| RIVERSCAPE INTEREST | 3 | SHORE MODIFICATIONS | 3 |
| 1. Shore upland primarily undeveloped, forestry or limited agriculture | 9 3 | 14. Compatible developments blending with surroundings or screened from river view | 9 3 |
| 2. Scenic shore environs (i.e. gorge, cliffs, canyon, forest, primitive setting) | 9 3 | 15. Roadways not a visual or audible intrusion | 6 2 |
| 3. Diverse views and scenes | 9 3 | 16. No or limited degree of environmental intrusions (i.e. power lines, quarries, excavation, clearcut shore, bridges) | 9 3 |
| 4. Flora diversity and interest | 9 3 | RIVER CHANNEL MODIFICATIONS | 3 |
| 5. Outstanding features (i.e. water falls, snow-capped mountains, pastoral views) | 12 4 | 17. Freedom from riprap, diking, filling, bulkheads, levees, dams | 9 3 |
| 6. Scenic backdrops and views of far places | 12 4 | POLLUTION-EVIDENCE | 2 |
| RIVER CHANNEL INTEREST | 3 | 18. Freedom from waste effluents, trash, dumping, odors | 8 4 |
| 7. Pools and rapids in relative short succession | 9 3 | PEOPLE SECLUSION OPPORTUNITY | 2 |
| 8. Frequent rock and boulder beds with relatively deep channel passage | 9 3 | 19. Human-use activity near streamway light | 4 2 |
| 9. Channel diversity (i.e. river bends, accretion bars, islands, boulder drops, shoals, confined channel) | 12 4 | 20. Setting, topography, shore, and channel characteristics conducive to seclusion opportunity | 4 2 |
| 10. Shore-waterway intimacy (i.e. stream width generally 300 ft wide or less during moderate to low flows) | 15 5 | STREAMFLOW | 2 |
| 11. High stream bank usability for water contact activities | 12 4 | 21. Streamflow adequate for boating year-round | 6 3 |
| 12. Rapids difficulty rating II, III during low to moderate flows | 12 4 | 22. Streamflow variation minimal | 6 3 |
| 13. Rapids generally within same difficulty rating at given flow | 15 5 | PROXIMITY TO POPULATION CENTER | 1 |
| Relative ranking shown in heavy boxes Value 3 - Great importance Value 2 - Moderate importance Value 1 - Slight importance | | 23. Within 100 miles or closer of major population center | 2 2 |
| | | ACCESSIBILITY | 1 |
| | | 24. Vehicular access adequate | 5 5 |
| | | 25. Vehicular access limited and screened from river | 3 3 |
| | | RANKING SCORE | 215 |

River: Kalama River (223.0)
 River segment: Pigeon Springs to Lower Kalama River Falls
 (U.S.G.S. Pigeon Springs)
 Gaging station: Kalama River near Kalama (14223500)
 Minimum flow:
 Preferred low flow:

Remarks:

A narrow stream with rock bluffs and steeply sloping banks. In many places tall Douglas fir trees line the shores and serve as an excellent buffer from the nearby road. The flora under the forest cover near the river is quite profuse. The rapids vary considerably in difficulty in a short river distance. Hillside logging can be viewed from the river in places.

| WHITEWATER STREAM INVENTORY CRITERIA | | | |
|---|------|--|------|
| RIVERSCAPE INTEREST | 3 | SHORE MODIFICATIONS | 3 |
| 1. Shore upland primarily undeveloped, forestry or limited agriculture | 4/12 | 14. Compatible developments blending with surroundings or screened from river view | 4/12 |
| 2. Scenic shore environs (i.e. gorge, cliffs, canyon, forest, primitive setting) | 5/15 | 15. Roadways not a visual or audible intrusion | 3/9 |
| 3. Diverse views and scenes | 4/12 | 16. No or limited degree of environmental intrusions (i.e. power lines, quarries, excavation, clearcut shore, bridges) | 3/9 |
| 4. Flora diversity and interest | 4/12 | RIVER CHANNEL MODIFICATIONS | 3 |
| 5. Outstanding features (i.e. water falls, snow-capped mountains, pastoral views) | 4/12 | 17. Freedom from riprap, diking, filling, bulkheads, levees, dams | 3/9 |
| 6. Scenic backdrops and views of far places | 3/9 | POLLUTION EVIDENCE | 2 |
| RIVER CHANNEL INTEREST | 3 | 18. Freedom from waste effluents, trash, dumping, odors | 4/8 |
| 7. Pools and rapids in relative short succession | 4/12 | PEOPLE SECLUSION OPPORTUNITY | 2 |
| 8. Frequent rock and boulder beds with relatively deep channel passage | 3/9 | 19. Human-use activity near streamway light | 3/6 |
| 9. Channel diversity (i.e. river bends, accretion bars, islands, boulder drops, shoals, confined channel) | 4/12 | 20. Setting, topography, shore, and channel characteristics conducive to seclusion opportunity | 3/6 |
| 10. Shore-waterway intimacy (i.e. stream width generally 300 ft wide or less during moderate to low flows) | 5/15 | STREAMFLOW | 2 |
| 11. High stream bank usability for water contact activities | 4/12 | 21. Streamflow adequate for boating year-round | 3/6 |
| 12. Rapids difficulty rating II, III during low to moderate flows | 4/12 | 22. Streamflow variation minimal | 2/4 |
| 13. Rapids generally within same difficulty rating at given flow | 2/6 | PROXIMITY TO POPULATION CENTER | 1 |
| Relative ranking shown in heavy boxes Value 3 - Great importance Value 2 - Moderate importance Value 1 - Slight importance | | 23. Within 100 miles or closer of major population center | 3/3 |
| | | ACCESSIBILITY | 1 |
| | | 24. Vehicular access adequate | 5/5 |
| | | 25. Vehicular access limited and screened from river | 3/3 |
| | | RANKING SCORE | 230 |

COWLITZ RIVER BASIN

River: Cowlitz River (226.0)

River segment: La Wis Wis campground to Lake Creek on Cowlitz River (U.S.G.S. Packwood)

Gaging station: Cowlitz River at Packwood (14226500)

Minimum flow:

Preferred low flow:

Remarks:

The Upper Cowlitz is a scenic stream in a steep-walled gorge. Rapids vary from riffles to easy small ledge drops. Below Muddy Fork the river is completely different with wide braided channel and vistas of distant mountains. Riverfront home development is prevalent for lower part of run.

| WHITEWATER STREAM INVENTORY CRITERIA | | | |
|---|------|--|------|
| RIVERSCAPE INTEREST | 3 | SHORE MODIFICATIONS | 3 |
| 1. Shore upland primarily undeveloped, forestry or limited agriculture | 3/9 | 14. Compatible developments blending with surroundings or screened from river view | 3/9 |
| 2. Scenic shore environs (i.e. gorge, cliffs, canyon, forest, primitive setting) | 2/6 | 15. Roadways not a visual or audible intrusion | 3/9 |
| 3. Diverse views and scenes | 4/12 | 16. No or limited degree of environmental intrusions (i.e. power lines, quarries, excavation, clearcut shore, bridges) | 4/12 |
| 4. Flora diversity and interest | 3/9 | RIVER CHANNEL MODIFICATIONS | 3 |
| 5. Outstanding features (i.e. water falls, snow-capped mountains, pastoral views) | 3/9 | 17. Freedom from riprap, diking, filling, bulkheads, levees, dams | 4/12 |
| 6. Scenic backdrops and views of far places | 4/12 | POLLUTION-EVIDENCE | 2 |
| RIVER CHANNEL INTEREST | 3 | 18. Freedom from waste effluents, trash, dumping, odors | 4/8 |
| 7. Pools and rapids in relative short succession | 3/9 | PEOPLE SECLUSION OPPORTUNITY | 2 |
| 8. Frequent rock and boulder beds with relatively deep channel passage | 2/6 | 19. Human-use activity near streamway light | 3/6 |
| 9. Channel diversity (i.e. river bends, accretion bars, islands, boulder drops, shoals, confined channel) | 3/9 | 20. Setting, topography, shore, and channel characteristics conducive to seclusion opportunity | 3/6 |
| 10. Shore-waterway intimacy (i.e. stream width generally 300 ft wide or less during moderate to low flows) | 3/9 | STREAMFLOW | 2 |
| 11. High stream bank usability for water contact activities | 4/12 | 21. Streamflow adequate for boating year-round | 3/6 |
| 12. Rapids difficulty rating II, III during low to moderate flows | 4/12 | 22. Streamflow variation minimal | 2/4 |
| 13. Rapids generally within same difficulty rating at given flow | 3/9 | PROXIMITY TO POPULATION CENTER | 1 |
| Relative ranking shown in heavy boxes Value 3 - Great importance Value 2 - Moderate importance Value 1 - Slight importance | | 23. Within 100 miles or closer of major population center | 3/3 |
| | | ACCESSIBILITY | 1 |
| | | 24. Vehicular access adequate | 4/4 |
| | | 25. Vehicular access limited and screened from river | 3/3 |
| | | RANKING SCORE | 205 |

River: Toutle, North Fork (242.0)
 River segment: A1 Raught campground to Kid Valley Campground
 Gaging station: Toutle River Silver Lake (14242500)
 Minimum flow:
 Preferred low flow:

Remarks:

Moderately steep gradient (34 ft/mi) river with nearly continuous easy rapids for first half of run, but the last half alternates between pools and riffles. The river is narrow and has a substantial amount of log debris. The shore varies between recent logged land and tall timber stands. The roadway is quite visible from river in many places and thinly scattered housing borders the banks.

| WHITEWATER STREAM INVENTORY CRITERIA | | | | | |
|---|-----|--|--|-----|--|
| RIVERSCAPE INTEREST | | 3 | SHORE MODIFICATIONS | 3 | |
| 1. Shore upland primarily undeveloped, forestry or limited agriculture | 4/2 | 4 | 14. Compatible developments blending with surroundings or screened from river view | 4/2 | |
| 2. Scenic shore environs (i.e. gorge, cliffs, canyon, forest, primitive setting) | 3/9 | 3 | 15. Roadways not a visual or audible intrusion | 2/6 | |
| 3. Diverse views and scenes | 4/2 | 4 | 16. No or limited degree of environmental intrusions (i.e. power lines, quarries, excavation, clearcut shore, bridges) | 3/9 | |
| 4. Flora diversity and interest | 3/9 | 3 | RIVER CHANNEL MODIFICATIONS | | |
| 5. Outstanding features (i.e. water falls, snow-capped mountains, pastoral views) | 3/9 | 3 | 17. Freedom from riprap, diking, filling, bulkheads, levees, dams | 3/9 | |
| 6. Scenic backdrops and views of far places | 3/9 | 3 | POLLUTION-EVIDENCE | | |
| RIVER CHANNEL INTEREST | | 3 | 18. Freedom from waste effluents, trash, dumping, odors | 4/8 | |
| 7. Pools and rapids in relative short succession | 4/2 | 4 | PEOPLE SECLUSION OPPORTUNITY | | |
| 8. Frequent rock and boulder beds with relatively deep channel passage | 2/6 | 2 | 19. Human-use activity near streamway light | 3/6 | |
| 9. Channel diversity (i.e. river bends, accretion bars, islands, boulder drops, shoals, confined channel) | 3/9 | 3 | 20. Setting, topography, shore, and channel characteristics conducive to seclusion opportunity | 3/6 | |
| 10. Shore-waterway intimacy (i.e. stream width generally 300 ft wide or less during moderate to low flows) | 4/2 | 4 | STREAMFLOW | | |
| 11. High stream bank usability for water contact activities | 4/2 | 4 | 21. Streamflow adequate for boating year-round | 2/4 | |
| 12. Rapids difficulty rating II, III during low to moderate flows | 4/2 | 4 | 22. Streamflow variation minimal | 1/2 | |
| 13. Rapids generally within same difficulty rating at given flow | 5/5 | 5 | PROXIMITY TO POPULATION CENTER | | |
| Relative ranking shown in heavy boxes Value 3 - Great importance Value 2 - Moderate importance Value 1 - Slight importance | | | 23. Within 100 miles or closer of major population center | 3/3 | |
| | | ACCESSIBILITY | | 1 | |
| | | 24. Vehicular access adequate | 5/5 | | |
| | | 25. Vehicular access limited and screened from river | 3/3 | | |
| | | | RANKING SCORE 211 | | |

TOUTLE RIVER BASIN

River: Toutle River (242.1)
 River segment: Bridge below North and South Fork Toutle to Tower Road Bridge
 Gaging station: Toutle River near Silver Lake (14242500)
 Minimum flow:
 Preferred low flow:

Remarks:

This is a beautiful section of the Toutle River with wooded shores and scenic rock cliffs. The Hollywood Gorge part of the river is very scenic with a narrow twisting canyon. The rapids are difficult and for experts only. However, the run is broken in the middle by 3-4 miles of easy flat water. The beginning part of run has large drops with big "house-size" boulders in the stream channel. Homes are scattered along the shore in places.

| WHITewater STREAM INVENTORY CRITERIA | | | |
|---|------|--|------|
| RIVERSCAPE INTEREST | 3 | SHORE MODIFICATIONS | 3 |
| 1. Shore upland primarily undeveloped, forestry or limited agriculture | 5/5 | 14. Compatible developments blending with surroundings or screened from river view | 4/12 |
| 2. Scenic shore environs (i.e. gorge, cliffs, canyon, forest, primitive setting) | 5/5 | 15. Roadways not a visual or audible intrusion | 4/12 |
| 3. Diverse views and scenes | 5/5 | 16. No or limited degree of environmental intrusions (i.e. power lines, quarries, excavation, clearcut shore, bridges) | 4/12 |
| 4. Flora diversity and interest | 4/12 | RIVER CHANNEL MODIFICATIONS | 3 |
| 5. Outstanding features (i.e. water falls, snow-capped mountains, pastoral views) | 4/12 | 17. Freedom from riprap, diking, filling, bulkheads, levees, dams | 5/5 |
| 6. Scenic backdrops and views of far places | 3/9 | POLLUTION-EVIDENCE | 2 |
| RIVER CHANNEL INTEREST | 3 | 18. Freedom from waste effluents, trash, dumping, odors | 4/8 |
| 7. Pools and rapids in relative short succession | 3/9 | PEOPLE SECLUSION OPPORTUNITY | 2 |
| 8. Frequent rock and boulder beds with relatively deep channel passage | 4/12 | 19. Human-use activity near streamway light | 4/8 |
| 9. Channel diversity (i.e. river bends, accretion bars, islands, boulder drops, shoals, confined channel) | 5/5 | 20. Setting, topography, shore, and channel characteristics conducive to seclusion opportunity | 4/8 |
| 10. Shore-waterway intimacy (i.e. stream width generally 300 ft wide or less during moderate to low flows) | 4/12 | STREAMFLOW | 2 |
| 11. High stream bank usability for water contact activities | 4/12 | 21. Streamflow adequate for boating year-round | 3/6 |
| 12. Rapids difficulty rating II, III during low to moderate flows | 2/6 | 22. Streamflow variation minimal | 2/4 |
| 13. Rapids generally within same difficulty rating at given flow | 3/9 | PROXIMITY TO POPULATION CENTER | 1 |
| Relative ranking shown in heavy boxes Value 3 - Great importance Value 2 - Moderate importance Value 1 - Slight importance | | 23. Within 100 miles or closer of major population center | 3/3 |
| | | ACCESSIBILITY | 1 |
| | | 24. Vehicular access adequate | 3/3 |
| | | 25. Vehicular access limited and screened from river | 5/5 |
| | | RANKING SCORE | 249 |

EXHIBIT C

Streamflow Data

CHEHALIS RIVER BASIN

| River | Segment | Date | Gaging Station | Flow (cfs) | Adequacy of Flow | Explanation |
|--------------------------------|--|---------------|---|------------|------------------|--|
| Canyon R. (035.0) | Bridge 4 miles above confluence of Canyon R. and West Fork Satsop to bridge on Cougar Smith Road on West Fork of Satsop R. | Apr. 29, 1972 | Satsop R. near Satsop (12035000) | 2080 | adequate | Low water. Enough water to run all rapids. Low gradient river. |
| West Fork of Satsop R. (035.1) | Bridge at Cougar Smith Road to footbridge at Franklin Park | Apr. 4, 1973 | do | 3040 | adequate | Plenty of water. |
| do | do | Apr. 21, 1973 | do | 1190 | adequate | * Water flow low, but okay. |
| do | do | Nov. 18, 1973 | do | 3810 | adequate | * Water flow adequate but low. |
| Wynoochee R. (036.0) | 2.5 miles above Save Creek to 3.5 miles above Schafer Creek | Apr. 29, 1972 | Wynoochee R. above Save Creek, near Aberdeen (12036000) | 844 | adequate | Water flow low. Enough for good run. |

DESCHUTES RIVER BASIN

| | | | | | | |
|----------------------|---|---------------|--------------------------------------|----|---------------|--|
| Deschutes R. (079.0) | Vail Loop Road at bridge near Lake Lawrence to bridge at Hy. 507 near Rainier | Apr. 14, 1973 | Deschutes R. near Rainier (12079000) | 67 | below minimum | Water too low. Dragged bottom on shoals. |
| do | do | Apr. 7, 1973 | do | 80 | do | * do |

NISQUALLY RIVER BASIN

| | | | | | | |
|----------------------|--|---------------|--|------|----------|--|
| Nisqually R. (088.0) | Bridge at McKenna to bridge 1 mile below Centralia Power Plant | Nov. 15, 1970 | # Nisqually R. near McKenna (12088400) | 1150 | adequate | Low water. Close to minimum flow. Technical run in places but enough water. |
| do | do | May 22, 1971 | do | 2470 | adequate | Plenty of water. |
| do | do | Feb. 13, 1972 | do | 3650 | adequate | Ideal heavy water run. Wave formation good. Rocks not covered completely so good eddies. |

* Personal communication with individual members of Washington Kayak Club.

Stream gage above Centralia Power Plant diversion.

NISQUALLY RIVER BASIN

| River | Segment | Date | Gaging Station | Flow (cfs) | Adequacy of Flow | Explanation |
|----------------------|--|---------------|--|------------|------------------|---|
| Nisqually R. (088.0) | Bridge at McKenna to bridge 1 mile below Centralia Power Plant | July 30, 1972 | # Nisqually R. near McKenna (12088400) | 926 | Minimum | *Low water. Run marginal. |
| do | do | May 12, 1973 | do | 732 | below minimum | *Low water. Real scraper hard to get down river. |
| do | do | Nov. 11, 1973 | do | 1584 | adequate | *Low water. Flow good. All drops negotiable but less than powerful. |

PUYALLUP RIVER BASIN

| | | | | | | |
|---------------------|--------------------------------|---------------|------------------------------------|-----|--------------|---|
| Puyallup R. (093.0) | Electron Power Plant to Orting | Mar. 24, 1973 | Puyallup R. near Orting (12093500) | 292 | near minimum | Water flow low. Scraped a few spots with wide shoals. Didn't have to line boats or portage. |
| do | do | May 17, 1973 | do | 874 | adequate | *Good run. Delightful water level. Not many eddies. |
| do | do | July 18, 1973 | do | 708 | adequate | *Good run. |
| do | do | Nov. 17, 1973 | do | 530 | adequate | *Plenty of water. |

GREEN RIVER BASIN

| | | | | | | |
|------------------|----------------------------|---------------|---|------|--------------------------|--|
| Green R. (105.0) | Tacoma Headworks to Palmer | Mar. 14, 1971 | Green R. below Howard Hansen Dam (12105900) | 925 | adequate | Water low, but good run. |
| do | do | May 26, 1971 | do | 2480 | adequate | Plenty of water, some rapids washed out at this flow. |
| do | do | Nov. 28, 1971 | do | 1250 | adequate | Good "bouncy" run with most rocks covered. |
| do | do | Mar. 19, 1972 | do | 4370 | adequate | Current swift and forceful. |
| do | do | Feb. 3, 1973 | do | 598 | near minimum | *Water flow low. |
| do | do | Apr. 8, 1973 | do | 542 | minimum or below minimum | Water flow low. Scraped bottom occasionally in shallow, wide parts of river. |

* Personal communication with individual members of Washington Kayak Club.

Stream gage above Centralia Power Plant diversion.

GREEN RIVER BASIN

| River | Segment | Date | Gaging Station | Flow (cfs) | Adequacy of Flow | Explanation |
|------------------|---|---------------|---|------------|------------------|---|
| Green R. (105.0) | Tacoma Headworks to Palmer | May 2, 1973 | Green R. below Howard Hansen Dam (12105900) | 692 | adequate | Good water flow. |
| do | do | Nov. 24, 1973 | do | 479 | minimum | *Water low. Just enough to run without dragging bottom. |
| do | do | Dec. 2, 1973 | do | 863 | adequate | Plenty of water. Many rocks exposed for maximum use of eddies. |
| Green R. (105.1) | Palmer to Franklin Bridge (1st bridge below Palmer) | Nov. 27, 1971 | | 1230 | adequate | Good water flow. Considerable maneuvering at times to avoid rocks in a few places. |
| do | do | Mar. 18, 1973 | do | 692 | minimum | *Water flow low. Run okay. |
| do | do | Apr. 29, 1973 | do | 853 | near minimum | Water flow marginal. Scraped on one major drop and a shallow, wide place in river. |
| do | do | May 12, 1973 | do | 1080 | adequate | Most rocks in rapids covered enough. Probably easiest flow to get down river. |
| do | do | Nov. 24, 1973 | do | 479 | below minimum | *Water flow low. Many drops at minimum flow. Several drops impossible to run clean. |
| do | do | Dec. 9, 1973 | do | 1750 | adequate | Good water flow. Optimum. Difficulty level increases at this flow. |
| Green R. (105.2) | Franklin Bridge to Flaming Geyser Park | Mar. 21, 1971 | do | 700 | adequate | Water low. Good run. Lots of rock exposures but can negotiate okay. |
| do | do | Oct. 3, 1971 | do | 412 | near minimum | Water flow low. Lots of narrow chutes requiring precise maneuvering. |
| do | do | Oct. 24, 1971 | do | 575 | adequate | Water low. Enough water to avoid scraping bottom. |
| do | do | Jan. 16, 1972 | do | 1090 | adequate | Rocks covered even in lower 1/2 of run where river broadens out. |
| do | do | Mar. 25, 1972 | do | 2200 | adequate | Plenty of water, challenging run at this flow. |

* Personal communication with individual members of Washington Kayak Club.

GREEN RIVER BASIN

| River | Segment | Date | Gaging Station | Flow (cfs) | Adequacy of Flow | Explanation |
|------------------|---|----------------|---|------------|------------------|---|
| Green R. (105.2) | Franklin Bridge to Flaming Geyser Park | May 14, 1972 | Green R. below Howard Hansen Dam (12105900) | 3840 | adequate | Heavy water run. |
| do | do | July 16, 1972 | do | 1260 | adequate | Excellent flow. Enough water to cover all rocks and good flow to "play" in current and waves. |
| do | do | Nov. 12, 1972 | do | 505 | near minimum | Water low. Skill required to negotiate some drops and shallows. |
| do | do | Mar. 18, 1973 | do | 692 | adequate | Most of rocks covered. Can scrape bottom if negotiate incorrectly. Water not forceful, lots of nice eddies. |
| do | do | Apr. 15, 1973 | do | 742 | adequate | Good run for intermediate boaters. Most rocks covered in shallows in widest part of river. |
| do | do | Aug. 12, 1973 | do | 279 | below minimum | Water too low. A total of 15 rapids had to be portaged or lined. |
| Green R. (105.3) | Flaming Geyser Park to Whitney bridge (2nd bridge below Park) | Sept. 26, 1970 | do | 225 | below minimum | Water low. Run marginal; scraped bottom. |
| do | do | Nov. 1, 1970 | do | 661 | adequate | Good run. Easy flow to run river. |
| do | do | Apr. 7, 1971 | do | 1770 | adequate | Good run. Swift current; one rapid nearly washed out. |
| do | do | Jun. 14, 1972 | do | 472 | near minimum | Water low. Possible to run without scraping bottom. |
| do | do | Nov. 4, 1972 | do | 1360 | adequate | Good run. Nice waves in last drop. |
| do | do | Dec. 2, 1972 | do | 1010 | adequate | Good run. Probably near optimum level for good eddies and waves. |
| do | do | July 12, 1973 | do | 460 | minimum | *Just enough water to negotiate. |
| do | do | Sept. 23, 1973 | do | 225 | below minimum | Water too low. Scraped bottom several places. |

* Personal communication with individual members of Washington Kayak Club.

GREEN RIVER BASIN

| <u>River</u> | <u>Segment</u> | <u>Date</u> | <u>Gaging Station</u> | <u>Flow (cfs)</u> | <u>Adequacy of Flow</u> | <u>Explanation</u> |
|---------------------|---|---------------|---|-------------------|-------------------------|---|
| Green R. (105.3) | Flaming Geyser Park to Whitney bridge (2nd bridge below Park) | Nov. 24, 1973 | Green R. below Howard Hansen Dam (12105900) | 479 | minimum | *Definite channel in every drop, but very low. Rocky drops hard to maneuver. |
| Cedar R. (119.0) | Landsburg to Maple Valley | Nov. 20, 1971 | Cedar R. at Renton (12119000) | 962 | adequate | Rocks at this flow were mostly covered but enough exposure to require occasional alert rock dodging. |
| do | do | Jan. 30, 1972 | do | 1300 | adequate | Good "splasy" run; all rocks in shallow places covered. Wave formation at favorite "playspot" near railroad bridge near optimum. |
| do | do | Feb. 19, 1972 | do | 1700 | adequate | Good run. Many eddies along edge of river disappear at this flow. |
| do | do | Mar. 24, 1973 | do | 380 | below minimum | *Flow below minimum; boat dragged bottom in several rapids. |
| do | do | May 27, 1973 | do | 330 | below minimum | Water low; scraped bottom in 5 rapids; beginner-intermediate boaters would especially have difficulty negotiating the rapids. Despite the scraping the water flow was probably close to minimum flow. A 20 percent increase in flow would be close to adequate. |
| do | do | Oct. 5, 1973 | do | 320 | minimum | *Pleasant run, not much action, but rocks just barely covered. Note: evaluation does agree with above at 320 cfs on May 27. |
| do | do | Nov. 3, 1973 | do | 390 | minimum | Enough water to cover rocks in all rapids. However, did take light bottom brushes in couple of rapids. Had to be careful to choose correct channels. |
| do | do | Nov. 18, 1973 | do | 300 | below minimum | *Water flow low. Boat "basher". |

* Personal communication with individual members of Washington Kayak Club.

SNOHOMISH RIVER BASIN

| River | Segment | Date | Gaging Station | Flow (cfs) | Adequacy of Flow | Explanation |
|------------------------------------|--|----------------|---|------------|------------------|---|
| South Fork of Skykomish R. (133.0) | Beckler R. and S. Fork Skykomish R. confluence to bridge at Baring | June 13, 1971 | South Fork Skykomish near Index(12133000) | 5680 | adequate | *Plenty of water; heavy water run. |
| do | do | June 30, 1973 | do | 1950 | adequate | *Delightful run; plenty adequate flow. |
| do | do | July 21, 1973 | do | 998 | minimum | *Marginal flow; just enough water to allow free floating without bottom dragging. |
| North Fork of Skykomish R. (134.0) | Bridge 0.1 mile above Howard Creek to confluence with South Fork Skykomish | Mar. 28, 1971 | Skykomish R. near Gold Bar (12134500) | 2920 | near minimum | Rock dodging both in shoals and deeper chutes extremely tricky; scraped bottom in some of boulder-studded drops. |
| do | do | June 13, 1971 | do | 9220 | adequate | Heavy water turbulence requiring considerable expertise. |
| do | do | Nov. 12, 1972 | do | 2860 | minimum | *Run near minimum flow, run very technical rock dodging. |
| do | do | May 19, 1973 | do | 7050 | adequate | Heavy water technical run. |
| Skykomish R. (134.1) | Sunset Falls to railroad bridge 0.3 mile below No Name Creek | Oct. 17, 1971 | Skykomish R. near Gold Bar (12134500) | 1170 | minimum | Water low, quite rocky in shallow rapids but passable; river in lower half of run below Anderson Creek still quite runnable. |
| do | do | Aug. 20, 1972 | do | 2010 | adequate | Good low water flow; water covers most rocks in major rapids; rapid above Index bridge quite rocky but easy to maneuver around rocks; flow suitable for intermediate boaters. |
| do | do | Sept. 24, 1972 | do | 5470 | adequate | Good heavy water run; waves and currents powerful at this flow; rocks well-covered in shallow places. Mean discharge for day was 7020 cfs. |
| do | do | Oct. 1, 1972 | do | 3410 | adequate | Good run. Water covers rocks in major drops as well as shallow rapids. Probably maximum flow for preferred low water. |
| do | do | Oct. 15, 1972 | do | 1900 | adequate | Good low water flow; more rocks exposed in major drops requiring some alert maneuvering. |
| do | do | Apr. 1, 1973 | do | 1340 | adequate | Good low flow run. Need nearly this much water for wide places in river. |
| do | do | May 17, 1973 | do | 9610 | adequate | Very heavy water run, currents powerful and unstable. Some rapids washed out at this flow. |

* Personal communication with individual members of Washington Kayak Club.

SNOHOMISH RIVER BASIN

| River | Segment | Date | Gaging Station | Flow (cfs) | Adequacy of Flow | Explanation |
|--------------------------------------|--|----------------|---|------------|----------------------------|--|
| Skykomish R. (134.1) | Sunset Falls to railroad bridge 0.3 mile below No Name Creek | June 24, 1973 | Skykomish R. near Gold Bar (12134500) | 4660 | adequate | Good run. Compromise between heavy water and good "play spots". |
| do | do | Aug. 12, 1973 | do | 913 | minimum | *Low water. No bottom dragging. Considered minimum flow. |
| do | do | Aug. 26, 1973 | do | 650 | below minimum | Very technical run. Lots of glancing blows. Bottom dragging on two of the shallow rapids. |
| do | do | Oct. 20, 1973 | do | 1560 | adequate | Low water, but enough water to negotiate all rapids. Probably ideal flow to run river with ease. |
| Skykomish R. (134.2) | Railroad bridge 0.3 miles below No Name Creek to Gold Bar bridge | July 7, 1971 | do | 6080 | adequate | Large waves and hydraulics; water unstable and forceful. |
| do | do | Sept. 24, 1972 | do | 5470 | adequate | do |
| do | do | June 30, 1973 | do | 3200 | adequate | *Plenty of water. Good run. |
| do | do | July 14, 1973 | do | 1980 | adequate | *Low water. Enough water to negotiate drops. |
| do | do | Aug. 8, 1973 | do | 957 | below minimum | *Low water. Scraped bottom several times. |
| do | do | Aug. 26, 1973 | do | 611 | below minimum | *Low water. Had to portage rapid above Gold Bar bridge. Had to choose very careful course most of run. |
| do | do | Oct. 21, 1973 | do | 2100 | adequate | Low water. Flow only slightly above minimum. Many wide places in river require near this flow to cover rocks. 30 percent less flow close to minimum. |
| Middle Fork of Snoqualmie R. (141.0) | Taylor River to concrete bridge above gaging station | Apr. 4, 1971 | Middle Fork of Snoqualmie R. near Tanner (12141300) | 820 | adequate | Water covers most rocks in rapids. |
| do | do | June 20, 1971 | do | 2790 | adequate | River easily navigable at this flow. |
| do | do | Feb. 4, 1973 | do | 434 | near or below minimum flow | Water low. Scraped bottom few places, but another 100-150 cfs probably would be adequate. |

* Personal communication with individual members of Washington Kayak Club.

SNOHOMISH RIVER BASIN

| River | Segment | Date | Gaging Station | Flow (cfs) | Adequacy of Flow | Explanation |
|--------------------------------------|--|---------------|--|------------|---------------------------|--|
| Middle Fork of Snoqualmie R. (141.0) | Taylor River to concrete bridge above gaging station | Feb. 18, 1973 | Middle Fork of Snoqualmie R. near Tanner (1441300) | 391 | below minimum flow | River below minimum flow needed to run several rapids, portaged a few drops because of low water. |
| do | do | May 19, 1973 | do | 1890 | adequate | *Ideal water flow; good run. |
| do | do | May 26, 1973 | do | 1260 | adequate | Water flow adequate for entire run; no scraping bottom. At least this much water needed for one of rapids on river where river splits around island. |
| Middle Fork of Snoqualmie R. (141.1) | Concrete bridge above gaging station to Tanner | April 4, 1971 | do | 820 | near minimum and adequate | Low water flow; first 2 1/2 miles of river shallow and just passable. Lower 2/3 of run adequate. |
| do | do | Oct. 31, 1971 | do | 700 | minimum | Low water flow; lots of rock exposure but manageable without scraping bottom. |
| do | do | June 27, 1971 | do | 1890 | adequate | Good run. Wave formation on some rapids good. |
| do | do | Jan. 14, 1973 | do | 7280 | adequate | Very heavy water; currents and turbulence forceful. |
| do | do | Mar. 3, 1973 | do | 700 | adequate | Water flow low but adequate for lower 2/3 of run (do not run upper 1/3 of section). |
| do | do | May 12, 1973 | do | 1060 | adequate | *Low water flow, but runnable. |
| do | do | July 1, 1973 | do | 830 | adequate | *Low water flow. Delightful run. |
| do | do | July 28, 1973 | do | 375 | below minimum | *Extreme difficulty making run. |
| do | do | Nov. 10, 1973 | do | 1520 | adequate | Good low flow run. Wide rapids need nearly this much water to get down river with ease. |
| Middle Fork of Snoqualmie R. (141.2) | Tanner to North Bend (2nd bridge below Tanner) | June 27, 1971 | do | 1890 | adequate | Good run. |
| do | do | July 19, 1972 | do | 1700 | adequate | Rocks covered; rapids easy. |
| do | do | Mar. 3, 1973 | do | 700 | near minimum | Low water flow. River widens making it difficult to pass over shoals without scraping bottom. |

*Personal communication with individual members of Washington Kayak Club.

SNOHOMISH RIVER BASIN.

| River | Segment | Date | Gaging Station | Flow (cfs) | Adequacy of Flow | Explanation |
|-------------------------------------|--|---------------|---|------------|------------------|---|
| North Fork of Snoqualmie R. (142.0) | Campground above Deep Creek to swinging bridge | July 10, 1971 | North Fork of Snoqualmie R. near Snoqualmie Falls(12142000) | 1110 | adequate | High water flow. Plenty of water to run chutes and ledges. |
| do | do | Dec. 30, 1972 | do | 550 | adequate | Good run. Choices of routes to run more limited than around 1000 cfs. |
| do | do | Feb. 17, 1973 | do | 365 | near minimum | Water low, but possible to negotiate rapids okay. |
| do | do | Mar. 25, 1973 | do | 227 | below minimum | Water too low. Scraped bottom on number of occasions. |
| do | do | May 28, 1973 | do | 270 | below minimum | do |
| South Fork of Snoqualmie R. (144.0) | Bridge at Edgewick Road to bridge at Cedar Falls road | June 23, 1971 | South Fork of Snoqualmie R. near North Bend (12144000) | 1480 | adequate | Good run. Plenty of water. |
| do | do | May 17, 1972 | do | 1010 | adequate | do |
| do | do | May 11, 1973 | do | 538 | near minimum | Low water flow. Rapids easy; scraped bottom once, but most places in shallows okay. Lots of exposed rocks. |
| Tolt R. (148.0) | Public Fish and Game access 3.0 miles below South and North Fork Tolt to Carnation | Apr. 16, 1972 | Tolt R. near Carnation (12148500) | 638 | adequate | Enough water. Not much rock dodging. |
| do | do | Mar. 31, 1973 | do | 326 | near minimum | Low water flow; just passable over wide shoals; correct choices of deep channels may be difficult for beginner. |

STILLAGUAMISH RIVER BASIN

| <u>River</u> | <u>Segment</u> | <u>Date</u> | <u>Gaging Station</u> | <u>Flow (cfs)</u> | <u>Adequacy of Flow</u> | <u>Explanation</u> |
|-------------------------------------|--------------------------|---------------|--|-------------------|-------------------------|---|
| South Fork Stillaguamish R. (161.0) | Boardman Creek to Verlot | July 3, 1971 | Stillaguamish R. near Granite Falls (12161000) | 922 | adequate | Close to minimum flow. Enough water but had to choose route carefully at times. |
| do | do | Jan. 23, 1973 | do | 1630 | adequate | River not exceptionally high but lots of water. Good run. |
| do | do | Mar. 18, 1973 | do | 2600 | adequate | Heavy class III water. |
| do | do | Apr. 7, 1973 | do | 539 | below minimum | *Water too low. Scraped bottom in steeper rapids. |
| do | do | June 23, 1973 | do | 831 | minimum | *Water low. Very technical run to get by rocks. |

SKAGIT RIVER BASIN

| | | | | | | |
|-----------------|---|---------------|--|------|---------------|--|
| Sauk R. (186.0) | Bedal campground to confluence with Whitechuck R. | June 26, 1971 | Sauk River, above Whitechuck R. near Darrington (12186000) | 2600 | adequate | High water, good run. |
| do | do | July 9, 1972 | do | 2430 | adequate | High water, challenging run for intermediate boaters. |
| do | do | July 2, 1973 | do | 1020 | adequate | *Preferred low flow. Good eddies, currents, and waves. |
| do | do | July 28, 1973 | do | 800 | minimum | *Low water flow. Only one critical drop which needs more water to negotiate. |
| do | do | Aug. 11, 1973 | do | 500 | below minimum | *Water low. Negotiation difficult. |
| do | do | Aug. 18, 1973 | do | 277 | below minimum | Water low. Scraped bottom. |

* Personal communication with individual members of Washington Kayak Club.

SKAGIT RIVER BASIN

| River | Segment | Date | Gaging Station | Flow (cfs) | Adequacy of Flow | Explanation |
|---------------------|---|---------------|--|------------|------------------|--|
| Sauk R. (189.0) | Confluence of Whitechuck R. and Sauk R. to Darrington | June 26, 1971 | Difference between Sauk R. near Sauk (12189500) and Suiattle R. above Big Creek near Darrington (12188400) | 5510 | adequate | High water. Heavy water run. |
| do | do | Aug. 27, 1972 | do | 1850 | adequate | Probably most preferred low flow. Excellent run with plenty of water for good waves and eddies. |
| do | do | Apr. 7, 1973 | do | 1172 | minimum or below | *Low water. Scraped in few shallow rapids. |
| do | do | May 5, 1973 | do | 2210 | adequate | *Good low water flow. Can negotiate all rapids. |
| do | do | Aug. 4, 1973 | do | 1700 | adequate | *Plenty of water, good run. |
| do | do | Aug. 19, 1973 | do | 945 | below minimum | Scraped bottom on three or four rapids. Some drops real "squeakers". Average boater would have scraped more times. Most of run okay-- probably another 200 cfs would be minimum. |
| Suiattle R. (188.0) | Sulfur Creek campground to road crossing 1/2 mile upstream of All Creek | Sept. 4, 1971 | Suiattle R. above Big Creek, near Darrington (12188400) | 1010 | near minimum | Water flow low. Portaged one boulder garden. Probably near minimum. |

METHOW RIVER BASIN

| | | | | | | |
|----------------------|------------------|---------------|-----------------------------------|------|---------------|---|
| Methow River (449.0) | Wintrop to Twisp | July 1, 1972 | Methow R. near Pateros (12449950) | 5650 | adequate | Plenty of water. Mostly swift moving water with occasional heavy water rapid. |
| do | do | July 28, 1973 | do | 510 | below minimum | *Water low. Much of this section was 12 to 18 inches deep. Scraped twice. Very marginal most of run. Had to pick correct channels or portage necessary. |

* Personal communication with individual members of Washington Kayak Club.

METHOW RIVER BASIN

| River | Segment | Date | Gaging Station | Flow (cfs) | Adequacy of Flow | Explanation |
|-------------------|--|---------------|-----------------------------------|------------|------------------|---|
| Methow R. (449.1) | Twisp to bridge below Gold Creek | July 2, 1972 | Methow R. near Pateros (12449950) | 5200 | adequate | Plenty of water. Heavy water run. |
| do | do | July 14, 1973 | do | 900 | adequate | Low water. Slightly above minimum flow. Some shallow wide stretches nearly marginal flow. |
| do | do | July 29, 1973 | do | 510 | below minimum | *Low water. Minimum of scraping and no portaging necessary but had to be very careful at selecting proper channel. |
| Methow R. (449.2) | Gold Creek to 1st bridge above Pateros | July 14, 1973 | do | 900 | adequate | Low water. Most of run okay but scraped on two rapids. Must make judicious choice of channels. Narrower channel than upper part of river. |
| do | do | July 29, 1973 | do | 510 | minimum | *Low water. Definitely runnable, but marginal. |

WENATCHEE RIVER BASIN

| | | | | | | |
|----------------------|---|---------------|----------------------------------|------|---------------|--|
| Chiwawa R. (457.0) | Goose Creek campground to confluence with Wenatchee R. | Sept. 3, 1972 | Wenatchee R. at Plain (12457000) | 1620 | near minimum | Water low. Just passable. Very technical in upper reaches of higher gradient. |
| do | do | July 22, 1973 | do | 690 | adequate | *Plenty of water. |
| Wenatchee R. (457.1) | Plain to Tumwater Campground on Stevens Pass highway | Oct. 9, 1971 | Wenatchee R. at Plain (12457000) | 660 | adequate | Water low but enough for good run. |
| Wenatchee R. (457.2) | Tumwater Campground to Leavenworth at Icicle Creek Road | Oct. 10, 1970 | do | 561 | below minimum | Water low. Most of run okay but occasional jagged rock chute had to be portaged. |
| do | do | May 6, 1973 | do | 3150 | adequate | *Water high. Heavy water with big waves. Portaged one drop. |

* Personal communication with individual members of Washington Kayak Club.

WENATCHEE RIVER BASIN

| River | Segment | Date | Gaging Station | Flow (cfs) | Adequacy of Flow | Explanation |
|----------------------|---|---------------|--------------------------------------|------------|------------------|---|
| Wenatchee R. (459.0) | Leavenworth at Icicle Creek Road to Peshastin | July 18, 1971 | Wenatchee R. at Peshastin (12459000) | 11,000 | adequate | *Water very high. Powerful waves and rapids. |
| do | do | Oct. 10, 1971 | do | 735 | below minimum | Water low. A real "boat basher" on Chumstick rapid. |
| do | do | Sept. 2, 1972 | do | 1720 | near minimum | Water low. Enough water to cover rock ledges on Chumstick rapids. |
| do | do | May 6, 1973 | do | 4160 | adequate | *Plenty of water. Some big waves and hydraulics. |
| do | do | July 9, 1973 | do | 2450 | adequate | Good run. Plenty of water to avoid scraping on Chumstick rapid. |
| do | do | July 21, 1973 | do | 2330 | adequate | Plenty of water. |

YAKIMA RIVER BASIN

| | | | | | | |
|---------------------|---|---------------|--|----------|-----------------------|--|
| Cle Elum R. (480.0) | Salmon La Sac campground to bridge above Cle Elum Lake | May 30, 1971 | #Teaway R. below Forks, near Cle Elum (12480000) | (955) | adequate | Plenty of water, easily navigable. |
| do | do | June 4, 1972 | do | (1490) | adequate | Water high. Good "sloshy" waves in places. |
| do | do | June 10, 1973 | do | (202) | minimum | Water extremely shallow over some riffles but just enough to avoid scraping. |
| do | do | June 27, 1973 | do | (112) | minimum | *Water low. Just marginal for running. |
| Teaway R. (480.1) | .3 mile above Teaway R. on N. Fork Teaway to Masterson Road | May 28, 1972 | do | (2770) | adequate | Water high. Current velocity very fast. |
| do | do | April 8, 1973 | do | (318) | near minimum or below | *Water low. Scraped on few ledges. |

* Personal communication with individual members of Washington Kayak Club.

No gaging station above Cle Elum lake; Teaway River used because it has drainage similar to Cle Elum River.

YAKIMA RIVER BASIN

| <u>River</u> | <u>Segment</u> | <u>Date</u> | <u>Gaging Station</u> | <u>Flow (cfs)</u> | <u>Adequacy of Flow</u> | <u>Explanation</u> |
|----------------------|--|---------------|---|-------------------|-------------------------|--|
| Tieton R. (491.0) | Below Rimrock Lake to Tieton Canal | Sept. 1, 1973 | Tieton R., at Tieton Dam, near Naches (12491500) | 650 | adequate | Water flow low-to-moderate. Plenty of water. River with fast current and few eddies. |
| Tieton R. (492.0) | Tieton Canal to 1st bridge below headworks of Tieton Canal on Hy. 12 | Sept. 1, 1973 | Tieton R. at headworks of Tieton Canal, near Naches (12492500) | 318 | near minimum | Water flow low. Generally enough water to run, but only marginally. Scraped bottom lightly a few times. |
| Yakima R. (479.0) | Teaway R. junction 1/2 mile below Thorp R. bridge | July 2, 1973 | Yakima R. at Cle Elum (12479500) | 2900 | adequate | *Plenty of water for good run. |
| do | do | Sept. 8, 1973 | do | 1530 | adequate | * do |
| do | do | Oct. 21, 1973 | Yakima R. at Cle Elum (12479500) + Teaway R. near Cle Elum (12480000) | 69 + 103 | below minimum | Water low. Scraped lightly in many places. Didn't have to portage. Correct course must be carefully read. 250 cfs probably would be close to minimum flow. |

KALAMA RIVER BASIN

| | | | | | | |
|----------------------|--|---------------|----------------------------------|-----|----------|--------------------------------|
| Kalama R. (223.0) | Bridge above Wild Horse Creek to bridge at Summers Creek | Oct. 28, 1973 | Kalama R. near Kalama (14223500) | --- | adequate | Moderate water flow. Good run. |
|----------------------|--|---------------|----------------------------------|-----|----------|--------------------------------|

COWLITZ RIVER BASIN

| | | | | | | |
|-----------------------|---|---------------|-----------------------------------|------|----------------------|---|
| Cowlitz R. (226.0) | La Wis Wis Campground to Lake Creek on Cowlitz R. | July 19, 1970 | Cowlitz R. at Packwood (14226500) | 1220 | adequate | *Plenty of water. |
| co | co | Apr. 21, 1973 | do | 836 | adequate and minimum | Water flow low. Upper Cowlitz adequate water flow. Below Muddy Fork much wider river with braided channel and run was marginal. |
| do | do | Dec. 28, 1973 | do | 1880 | adequate | *Water not high. No bottom scraping on run. |

* Personal communication with individual members of Washington Kayak Club.

COWLITZ RIVER BASIN

| <u>River</u> | <u>Segment</u> | <u>Date</u> | <u>Gaging Station</u> | <u>Flow (cfs)</u> | <u>Adequacy of Flow</u> | <u>Explanation</u> |
|------------------------------|---|---------------|---------------------------------------|-------------------|-------------------------|--|
| North Fork Toutle R. (242.0) | Al Raught Park to Kid Valley Park | Aug. 10, 1970 | Toutle R. near Silver Lake (14242500) | 380 | below minimum | Low water flow. Technical run. |
| do | do | Oct. 29, 1973 | do | 1300 | minimum | Low water flow. Several light bottom touches. Never dragged excessively or stopped completely. |
| Toutle R. (242.1) | 0.7 miles downstream from confluence of N. and S. Fork to bridge on Tower Hill Road | Aug. 23, 1970 | do | 352 | below minimum | *Water low. Portaged one rapid. |
| do | do | May 23, 1971 | do | 2720 | adequate | * Water high. Heavy water run. |
| do | do | Apr. 22, 1973 | do | 1993 | adequate | Water optimum. Good run. Probably above preferred low flow range. |
| do | do | Oct. 27, 1973 | do | 1300 | adequate | Low water flow. Above minimum flow; however, did scrape slightly on a couple of wide rapids. |

* Personal communication with individual members of Washington Kayak Club.

EXHIBIT D

Comparison of Rating Values
for Whitewater Streams Inventoried

COMPARISON OF RATING VALUES FOR WHITEWATER STREAMS INVENTORIED

| River No. | River | Total Rank | Riverscape Interest | River Channel Interest | Freedom From Shore and River Channel Modifications and Pollution Evidence | Human Use Factors |
|-----------|----------------------------|------------|---------------------|------------------------|---|-------------------|
| 105.2 | Green, Lower Gorge | 294 | 87 # | 99 # | 68 # | 40 # |
| 105.1 | Green, Upper Gorge | 280 | 87 # | 93 # | 62 # | 38 # |
| 142.0 | N.F. Snoqualmie | 278 | 84 # | 90 # | 67 # | 37 |
| 186.0 | Sauk, Upper | 275 | 81 # | 87 # | 70 # | 37 |
| 189.0 | Sauk, Middle | 267 | 78 # | 93 # | 56 | 40 # |
| 168.0 | Pilchuck Creek | 266 | 84 # | 84 # | 65 # | 33 |
| 035.0 | Canyon | 264 | 81 # | 75 | 70 # | 38 # |
| 141.0 | M.F. Snoqualmie, Upper | 261 | 84 # | 90 # | 52 | 35 |
| 141.1 | M.F. Snoqualmie, Middle | 260 | 72 | 93 # | 58 | 37 |
| 242.1 | Toutle | 249 | 78 | 75 | 59 # | 37 |
| 134.0 | N.F. Skykomish | 247 | 78 | 81 | 53 | 35 |
| 134.1 | Skykomish, Sunset Falls | 245 | 84 # | 81 | 44 | 39 # |
| 161.0 | S.F. Stillaguamish | 242 | 84 # | 87 # | 44 | 27 |
| 188.0 | Suiattle | 236 | 66 | 72 | 58 | 40 # |
| 035.1 | W.F. Satsop | 233 | 66 | 60 | 67 # | 40 # |
| 223.0 | Kalama, Upper | 230 | 72 | 78 | 47 | 33 |
| 457.0 | Chiwawa | 229 | 54 | 78 | 64 # | 33 |
| 480.0 | Cle Elum | 226 | 72 | 78 | 47 | 33 |
| 480.1 | Teanaway | 225 | 66 | 72 | 58 | 30 |
| 134.2 | Skykomish, Big Eddy | 218 | 69 | 69 | 46 | 34 |
| 036.0 | Wynoochee | 216 | 60 | 51 | 67 # | 38 # |
| 492.0 | Tieton, Middle | 215 | 60 | 84 # | 41 | 30 |
| 088.0 | Nisqually, Middle | 211 | 57 | 66 | 52 | 36 |
| 242.0 | N.F. Toutle | 211 | 60 | 78 | 44 | 29 |
| 491.0 | Tieton, Upper | 211 | 60 | 78 | 44 | 29 |
| 457.1 | Wenatchee, Upper | 208 | 60 | 60 | 50 | 38 # |
| 226.1 | Cowlitz, Upper | 205 | 57 | 66 | 50 | 32 |
| 105.0 | Green, Upper | 198 | 54 | 69 | 37 | 38 |
| 148.0 | Tolt | 197 | 54 | 75 | 38 | 30 |
| 449.2 | Methow, Lower | 197 | 54 | 69 | 37 | 37 |
| 105.3 | Green, Lower | 196 | 54 | 63 | 44 | 35 |
| 079.0 | Deschutes | 194 | 54 | 57 | 47 | 36 |
| 144.0 | S.F. Snoqualmie | 191 | 51 | 78 | 35 | 27 |
| 119.0 | Cedar | 190 | 51 | 72 | 41 | 26 |
| 449.1 | Methow, Middle | 186 | 51 | 63 | 37 | 35 |
| 457.2 | Wenatchee, Tumwater Canyon | 180 | 57 | 60 | 35 | 28 |
| 479.0 | Yakima, Upper | 177 | 51 | 51 | 36 | 39 # |
| 093.0 | Puyallup, Upper | 174 | 39 | 57 | 43 | 35 |
| 449.0 | Methow, Upper | 174 | 51 | 51 | 37 | 35 |
| 141.2 | M.F. Snoqualmie, Lower | 169 | 48 | 60 | 32 | 29 |
| 459.0 | Wenatchee, Lower | 158 | 42 | 54 | 30 | 32 |

Ten highest ranked rivers in respective categories.