

Pacific Northwest Rivers Study

Data Examples

F-R-10

Ref#

Rep#

State of Idaho
State of Montana
State of Oregon
State of Washington

NW Indian Tribes

USDA Forest Service
USDI Bureau of
Land Management
USDI Fish and
Wildlife Service
USDI National
Park Service
NW Power Planning
Council
Bonneville Power
Administration

April 1986



PACIFIC NORTHWEST RIVERS STUDY

DATA EXAMPLES

The Pacific Northwest Rivers Study has inventoried and assessed environmental values on more than 10,000 river and stream segments in Idaho, Montana, Oregon, and Washington. This information has been encoded into computerized data management systems in each of these four states. Using these systems it is possible to display and analyze information in a variety of ways. These data systems also allow for periodic update as more information becomes available.

Using the Bonneville Power Administration's Geographic Information System (GIS), it is also possible to create computer drawn maps using any subset or combination of the information collected. The following examples illustrate some of the products produced to date. Tabular and graphic examples were prepared by senior resource experts. GIS examples were prepared by Bonneville's Division of Land Resources and the Oregon Department of Energy.

TABULAR DATA EXAMPLES

	<u>Page</u>
° Idaho - Final Value Class Summary	2
° Idaho - Resident Fish Data Base	3
° Montana - Resident Fish Summary	4
° Montana - Recreation Data Base	5
° Oregon - Local Institutional Constraints	6
° Washington - Cultural Features Final Value Class Summary	7
° Washington - Wildlife Data Base	8

GRAPHIC DATA EXAMPLES

° Oregon - Resident Fish Values, Statewide	9
° Oregon - Wildlife Criteria, Statewide	10
° Oregon - Stream Characteristics for Fish, Statewide	11

GEOGRAPHIC INFORMATION SYSTEM EXAMPLES

° Idaho - Southwest Resident Fish Values	12
° Montana - Big Hole Basin Recreation Values	13
° Oregon - Northwest Coast Institutional Constraints	14

IDAHO - FINAL VALUE CLASS SUMMARY

PACIFIC NORTHWEST RIVERS STUDY
IDAHO RESOURCE VALUES

SEGMENT #	STREAM SEGMENT	DRAINAGE	MAP#	RESIDENT FISH	WILDLIFE	CULTURAL	NATURAL FEATURES	RECREATION
572.00	BOISE R, S FK	50113	23	2	1	2	1	1
573.00	ANDERSON RANCH RES	50113	23	2	1		3	
574.00	BOISE R, S FK	50113	23	1	1	2	1	2
575.00	WILLOW CR	50113	23	2	2	2		
576.00	WOOD CR	50113	23	3	3	3		
577.00	RATTLESNAKE CR	50113	23	2	2	4	3	
578.00	SMITH CR	50113	23	2	3	2	3	
579.00	TRAIL CR	50113	14	3	3	3		
580.00	BOCK CR	50113	14	3	3	3		
581.00	ROCK CR	50113	14	3	3	3		
582.00	MENEKE CR	50113	14	3	3	3		
583.00	LITTLE CAMAS CR	50113	14	2	3	3		
584.00	LITTLE CAMAS RES	50113	14	3	3			
585.00	DEER CR	50113	14	U	2	3		
586.00	DOG CR	50113	23	1	3	3		
587.00	FALL CR	50113	14	2	2	2		U
588.00	LINE CR	50113	14	1	1	3	3	
589.00	GROUSE CR	50113	23	2	1	2	2	
590.00	TRINITY CR	50113	23	2	2	4	1	
591.00	FEATHER R	50113	23	3	2	4		
592.00	FEATHER R	50113	23	2	2	1		
593.00	SHAKE CR	50113	23	2	1	4		
594.00	WILLOW CR	50113	23	1	1	3	2	
595.00	SKELETON CR	50113	22	U	1	3		
596.00	BOARDMAN CR	50113	22	U	1	3		
597.00	BIG SMOKEY CR	50113	22	1	1	4		2
598.00	BIG SMOKEY CR	50113	22	1	1	3	2	2
599.00	PARADISE CR	50113	22	1	2	3		
600.00	BIG SMOKEY CR, W FK	50113	22	1	2	3		2
601.00	LITTLE SMOKEY CR	50113	22	2	2	0	2	
602.00	OP CR	50113	22	1	3	4		
603.00	SKUNK CR	50113	22	2	2	4		
604.00	BEAR CR	50113	22	1	2	3		
605.00	EMMA CR	50113	22	1	2	3		
606.00	JOHNSON CR	50113	22	1	2	3		
607.00	VIENNA CR	50113	22	1	2	3		

MONTANA - RESIDENT FISH SUMMARY
EXAMPLE OF DATA PRINTOUT

MONTANA DEPARTMENT OF FISH, WILDLIFE, & PARKS
STREAM FISHERY EVALUATION - STREAMS IN ALPHABETICAL ORDER

RV = FISHERY RESOURCE VALUE, SF = SPORT FISHERY POTENTIAL, HS = HABITAT & SPECIES VALUE (1 = HIGH, 5 = LOW)

SER	REG-DRAINAGE-	WATER-REACH	CO.	WATER NAME	UPPER REACH BOUNDARY/LOWER REACH BOUNDARY-T, RESEC	TRIBUTARY TO	LENGTH (KM)	R	S	H
A67	1-08-0020-000	29	ABBOTT CREEK	SOURCE	BONHOMN RANCH CROSS	/MOUTH	9.7	4	4	4
442	3-22-0014-001	67	ADAIR CREEK	SOURCE	SOURCE	/MOUTH	6.0	3	4	3
A59	1-08-0060-000	29	ADDITION CREEK	SOURCE	SOURCE	/MOUTH	8.0	3	4	3
AQ2	1-07-0020-000	29	ADVENT CREEK	SOURCE	SOURCE	/MOUTH	4.8	4	4	4
A6V	1-08-0080-000	29	ADNEAS CREEK	SOURCE	SOURCE	/MOUTH	9.7	3	4	3
065	5-22-6804-195	95	AFTERBAY CREEK	HEADWATERS	HEADWATERS	/MOUTH	2.6	4	4	4
A6B	4-20-0050-000	49	AHORN CREEK	FORKS	FORKS	/MOUTH	4.8	4	4	4
335	4-13-0060-001	59	ALABAUGH CREEK	GRANDE RANCH	GRANDE RANCH	/MOUTH	5.2	4	4	4
AKE	3-01-9110-001	1	ALBERS SLOUGH	DRUMMY DITCH NO. 2	DRUMMY DITCH NO. 2	/MOUTH	19.3	3	4	3
A2P	1-05-0048-000	89	ALDER CREEK	SOURCE	SOURCE	/MOUTH	8.0	4	4	4
ATB	1-07-0060-000	29	ALDER CREEK	SOURCE	SOURCE	/MOUTH	9.7	4	4	4
AUM	2-06-0038-200	39	ALDER CREEK	HEADWATERS	HEADWATERS	/MOUTH	9.7	4	4	4
AGX	3-02-0075-000	1	ALDER CREEK	HEADWATERS	HEADWATERS	/MOUTH	11.4	4	4	4
896	3-01-0040-002	57	ALDER GULCH CREEK	VIRGINIA CITY	VIRGINIA CITY	/WILLIAMS DITCH	17.9	4	4	4
443	3-22-0021-000	67	ALDRIDGE CREEK	HEADWATERS	HEADWATERS	/MOUTH	2.4	4	4	4
AFR	2-04-0030-001	49	ALICE CREEK	BEAR CREEK	BEAR CREEK	/MOUTH	11.9	3	3	4
ABA	6-15-0030-001	71	ALKALI CREEK	CONFLU WITH W. ALKALI	CONFLU WITH W. ALKALI	/MOUTH	32.0	4	5	4
AUN	2-06-0076-200	63	ALLEN CREEK	HEADWATERS	HEADWATERS	/MOUTH	6.4	4	4	4
ALH	5-18-0120-000	107	AMERICAN FK MUSSELSHELL R	SOURCE	SOURCE	/MOUTH	51.2	4	4	4
444	3-22-0056-001	67	ANDERSON CREEK	HEADWATERS	HEADWATERS	/MOUTH	2.6	2	4	2
AHH	3-02-0125-001	1	ANDRUS CREEK	THAYER CREEK	THAYER CREEK	/MOUTH	12.2	4	4	4
445	3-22-0084-000	67	ANTELOPE CREEK	HEADWATERS	HEADWATERS	/MOUTH	12.9	4	5	4
A74	6-15-0060-001	105	ANTELOPE CREEK	HEADWATERS	HEADWATERS	/MOUTH	20.8	4	5	4
AKY	3-01-0135-001	1	ANTELOPE FLAT CREEK	SPRING	SPRING	/MOUTH	1.6	4	4	4
A7Q	1-07-0100-000	29	ANTICE CREEK	SOURCE	SOURCE	/MOUTH	6.4	4	4	4
446	3-22-0133-000	67	AREA CREEK	HEADWATERS	HEADWATERS	/MOUTH	8.0	4	4	4
BAN	4-16-0120-601	27	ARMELL'S CREEK	8 MI ABOVE MOUTH	8 MI ABOVE MOUTH	/MOUTH	12.9	4	4	4
049	5-22-0139-000	9	ARMSTRONG CREEK	2KM ABV E ROSEBUD	2KM ABV E ROSEBUD	LK/MOUTH	2.0	4	4	4
AGF	3-22-0140-001	67	ARMSTRONG SPRING CREEK	DEPUY'S DIVERSION DA/ORIGINAL MOUTH	DEPUY'S DIVERSION DA/ORIGINAL MOUTH	/DEPUY'S DAM	.5	2	4	2
447	3-22-0140-002	67	ARMSTRONG SPRING CREEK	ORIGIN	ORIGIN	/DEPUY'S DAM	1.1	1	3	1
AFV	2-04-0150-001	77	ARRASTRA CREEK	NATL FOREST BOUNDARY/MOUTH	NATL FOREST BOUNDARY/MOUTH	/MOUTH	7.2	3	4	3
AFZ	2-04-0150-002	77	ARRASTRA CREEK	USFS ROAD 4106	USFS ROAD 4106	/NATL FOREST BOUNDARY-15N10W33	5.1	3	4	3
346	4-16-0140-002	45	ARROW CREEK	NEAR UPPER END	NEAR UPPER END	/N E GEYSER	15.3	4	4	4
BQM	1-07-0140-001	29	ASHLEY CREEK	AIRPORT ROAD	AIRPORT ROAD	/MOUTH	27.7	3	4	3

MONTANA - RECREATION

PACIFIC NORTHWEST RIVERS STUDY: RECREATION RESOURCES INVENTORY.

River: BIG HOLE R Upper Boundary: N FK BIG HOLE Lower Boundary: DIVIDE BRIDGE Length (miles): 44
 Drainage: Big Hole DWFP Region: 3 Segment Code: 3-02-0450-01 ROS Class: Semi-Priv/Trans
 Water Character: Minor Months Boatable: 6 Access: Abund/Mod Scenic Quality: Outstanding N. Sites: 4
 Primary Uses: Rafts, Boat Fishing, Shore Fishing, Car Camping, Pleasure Drives,
 Scenic Viewing, Picnics,
 Secondary Uses: Canoes, Kayaks, Tubing, Swimming, Big Game Hunting, Waterfowl Hunting, Tent Camping, 27, Big Game Hunting,
 Use Level: 0 Use Estimate: Heavy DWFP Value: 1 BLM Value: 2 FS Value: 2 Final Value: 1
 Value Class Reasons: Good Fishing, Good Access, Good Scenery, High Recreation Use, 88,
 * * * * *
 River: BIG HOLE R Upper Boundary: HEADWATERS Lower Boundary: N FK BIG HOLE Length (miles): 51
 Drainage: Big Hole DWFP Region: 3 Segment Code: 3-02-0475-01 ROS Class: Transition
 Water Character: Flat/Minor Months Boatable: 4 Access: Moderate Scenic Quality: Subt/Mod N. Sites: 0
 Primary Uses: Rafts, Boat Fishing, Shore Fishing, Tent Camping, Car Camping, Pleasure Drives, Big Game Hunting,
 Secondary Uses: Canoes, Kayaks, Swimming, Scenic Viewing, Picnics,
 Use Level: 0 Use Estimate: Heavy/Mod. DWFP Value: 3 BLM Value: 2 FS Value: 3 Final Value: 2
 Value Class Reasons: High Recreation Use, 33, Good Scenery,
 * * * * *
 River: BIG HOLE R Upper Boundary: DIVIDE BRIDGE Lower Boundary: BEAVERHEAD R Length (miles): 56
 Drainage: Big Hole DWFP Region: 3 Segment Code: 3-02-0425-01 ROS Class: Semi Primitive
 Water Character: Minor/Mod. Months Boatable: 6 Access: Abund/Mod Scenic Quality: Substantial N. Sites: 8
 Primary Uses: Canoes, Rafts, Boat Fishing, Shore Fishing, Waterfowl Hunting, Tent Camping, Car Camping,
 Pleasure Drives, Scenic Viewing, Picnics,
 Secondary Uses: Kayaks, Tubing, Swimming, Big Game Hunting, Big Game Hunting,
 Use Level: 0 Use Estimate: Heavy DWFP Value: 1 BLM Value: 2 FS Value: 1 Final Value: 1
 Value Class Reasons: Good Fishing, Good Scenery, 35, 30, 88,
 * * * * *
 River: BIG LAKE CR Upper Boundary: TWIN LAKES Lower Boundary: BIG HOLE R Length (miles): 17
 Drainage: Big Hole DWFP Region: 3 Segment Code: 3-02-0500-01 ROS Class: Semi Primitive
 Water Character: Not Boatable Months Boatable: 0 Access: Limited Scenic Quality: Substantial N. Sites: 1
 Primary Uses: Boat Fishing, Tent Camping, Car Camping,
 Secondary Uses: Trail Use, Motor Trail Use, Scenic Viewing,
 Use Level: 0 Use Estimate: Moderate DWFP Value: 0 BLM Value: 0 FS Value: 2 Final Value: 2
 Value Class Reasons: Good Scenery, Topography, Good Fishing,
 * * * * *

HOOD RIVER COUNT DLCD RIVERS DATA BASE

<u>County</u>	<u>City</u>	<u>Label</u>	<u>Description</u>	<u>Designation</u>	<u>Acres Est.</u>	<u>Acres Rep.</u>	<u>Lot Size</u>	<u>HP Use</u>	<u>Citation</u>
Hood River		HRF1	Forest F-1 Zone	Forestry			40	3	5.20c
Hood River		HRF2	Primary Forest F-2 Zone	Forestry			80	3	6.20c
Hood River		HRA1	EFU Zone	Agriculture			20	4	7.40c
Hood River		HRR1	Residential Zones	Rural Res.					
Hood River		HRI1	Industrial M-1 Zone	Industrial				1	
Hood River		HRC1	Rural Commercial Zone	Commercial				1	
Hood River	Cascade Locks	HRU1	Cascade Locks UGB	Urban				U	
Hood River	Hood River	HRU2	Hood River UGB	Urban				U	
Hood River		HRI2	Light Industrial M-2 Zone	Industrial					
Hood River		HRS1	Parkdale	Rural Ser. Cen.				1	
Hood River		HRS2	Oak Grove	Rural Ser. Cen.			.5	1	
Hood River		HRS3	Airport	Airport					
Hood River		HRN1	Environmental Protection	Floodplain				4	43.20
Hood River		HRN2	Country Club	Park/Rec.			20	1	

WASHINGTON - CULTURAL FEATURES

TABLE 4: CLASS DISTRIBUTIONS

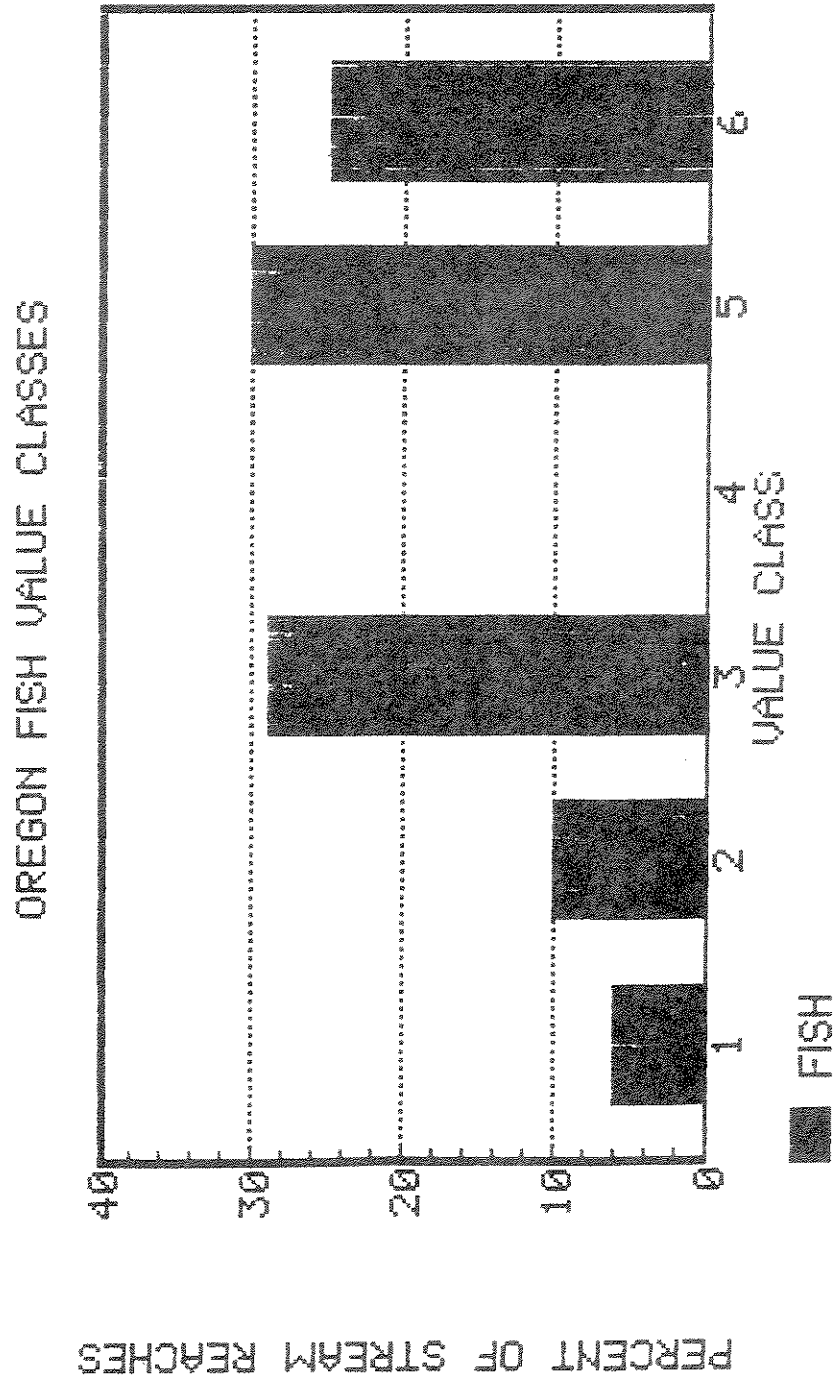
WRIA NAME	# SEGS.	"O" Survey		"O" Site		N		1		2		3		4		5	
		#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%
01 Nooksack River	50	38	76.0	41	82.0	9	18.0	--	--	5	10.0	--	--	--	--	36	72.0
02 Lower Skagit/Samish	15	9	60.0	11	73.0	--	--	--	--	3	20.0	--	--	--	--	12	80.0
03 Skagit River	170	99	58.2	139	81.8	77	45.3	--	--	14	8.2	4	2.4	--	--	75	44.1
04 Stillaguamish River	33	28	84.8	25	75.8	--	--	--	--	4	12.1	--	--	--	--	29	87.9
05 Snohomish River	92	54	58.7	62	67.4	--	--	--	--	22	23.9	--	--	2	2.2	68	73.9
06 Cedar River	11	2	18.1	3	27.2	--	--	--	--	6	54.5	--	--	--	--	5	45.4
07 Green River	14	8	57.1	8	57.1	1	7.1	--	--	4	28.6	--	--	--	--	9	64.2
08 Puyallup River	36	26	72.2	23	63.9	14	38.9	--	--	7	19.4	--	--	--	--	15	41.7
09 Nisqually River	32	27	84.3	21	65.6	8	25.0	--	--	4	12.5	--	--	--	--	20	62.5
10 Chambers Creek	1	--	--	--	--	--	--	--	--	1	100	--	--	--	--	--	--
11 Deschutes River	2	1	50.0	1	50.0	--	--	--	--	1	50.0	--	--	--	--	1	50.0
12 Oakland Bay	4	3	75.0	2	50.0	--	--	--	--	2	50.0	--	--	--	--	2	50.0
13 Kitsap Peninsula	1	100	1	100	--	--	--	--	--	--	--	--	--	--	--	1	100
14 Dosewallips/Duckabush/Hamma/Hamma/Skokomish	44	34	77.3	36	81.8	18	40.9	--	--	5	11.4	2	4.5	--	--	19	43.2
15 Big & Little Quilcene	8	7	87.5	7	87.5	--	--	--	--	1	12.5	--	--	--	--	7	87.5
16 Dungeness/Elwha	29	22	75.9	27	93.1	22	75.9	--	--	1	3.4	--	--	--	--	6	20.7
17 Hoko/Pysht	15	12	80.0	10	66.6	2	13.2	--	--	1	6.7	--	--	--	--	12	79.9
18 Hoh/Quillayute	76	59	77.6	60	78.9	37	48.7	--	--	2	2.6	1	1.3	--	--	36	47.4
19 Queets/Quinalt	79	52	65.8	74	93.7	62	78.5	--	--	1	1.3	--	--	--	--	16	20.3
20 Humptulips/Hoquiam/Wishkah	31	24	77.4	21	67.7	--	--	--	--	6	19.4	2	6.4	--	--	23	74.2
21 Chehalis	93	73	78.5	57	61.3	4	4.3	--	--	18	19.4	--	--	--	--	71	76.3
22 Willapa Bay	41	32	78.0	30	73.2	--	--	--	--	3	7.3	--	--	--	--	38	92.6
23 Grays/Elochman	22	16	72.8	13	59.1	--	--	--	--	7	31.8	--	--	--	--	15	68.0
24 Cowlitz/Coweman	138	117	84.8	100	72.5	14	10.1	--	--	18	13.0	2	1.4	--	--	104	75.3
25 Lewis/Kalama	47	43	91.5	27	57.4	--	--	--	--	9	19.1	--	--	--	--	38	80.8
26 Washougal River	17	11	64.7	11	64.7	--	--	--	--	3	17.7	--	--	--	--	14	82.3
27 Wind/White Salmon	34	30	88.2	19	55.9	3	8.8	--	--	7	20.6	--	--	--	--	24	70.6
28 Klickitat River	29	29	100	23	79.3	15	51.7	--	--	5	17.1	--	--	--	--	9	31.0
29 Walla Walla/Touchet	20	12	60.0	9	45.0	1	5.0	--	--	8	40.0	--	--	--	--	11	55.0
30 Palouse	3	--	--	--	--	--	--	1	33.3	2	66.6	--	--	--	--	--	--
31 Tucannon/Grande Ronde	13	5	38.5	4	30.7	--	--	--	--	6	46.1	--	--	--	--	7	53.8
32 Yakima River & Tribs.	8	5	62.5	1	12.5	7	87.5	--	--	1	12.5	--	--	--	--	--	--
33 Naches River	27	19	70.4	12	44.4	--	--	--	--	11	40.7	--	--	--	--	16	59.3
34 Yakima/Cle Elum	24	22	91.6	18	75.0	--	--	--	--	6	25.0	--	--	--	--	18	75.0
35 Columbia River	1	--	--	--	--	--	--	--	--	1	100	--	--	--	--	--	--
36 Crab Creek & Tribs.	2	--	--	--	--	--	--	--	--	2	100	--	--	--	--	--	--
37 Wenatchee River	44	39	88.6	37	84.0	11	25.0	--	--	5	11.4	1	2.3	--	--	27	61.4
38 Entiat River	10	9	90.0	7	70.0	--	--	--	--	1	10.0	--	--	--	--	9	90.0
39 Lake Chelan & Tribs.	26	19	73.1	19	73.1	20	76.9	--	--	2	7.7	--	--	--	--	4	15.4
40 Methow River	24	10	41.7	13	54.2	--	--	--	--	8	33.3	--	--	--	--	16	66.6
41 Okanogan River	13	11	84.6	1	7.6	5	38.5	--	--	5	38.5	--	--	--	--	3	23.0
42 Nespelem	2	--	--	--	--	2	100	--	--	--	--	--	--	--	--	--	--
43 Sanpoil River	5	5	100	5	100	5	100	--	--	--	--	--	--	--	--	--	--
44 Spokane River	2	--	--	--	--	1	50.0	--	--	1	50.0	--	--	--	--	--	--
45 Little Spokane	8	6	75.0	7	87.5	--	--	--	--	1	12.5	--	--	--	--	7	87.5

WASHINGTON - WILDLIFE

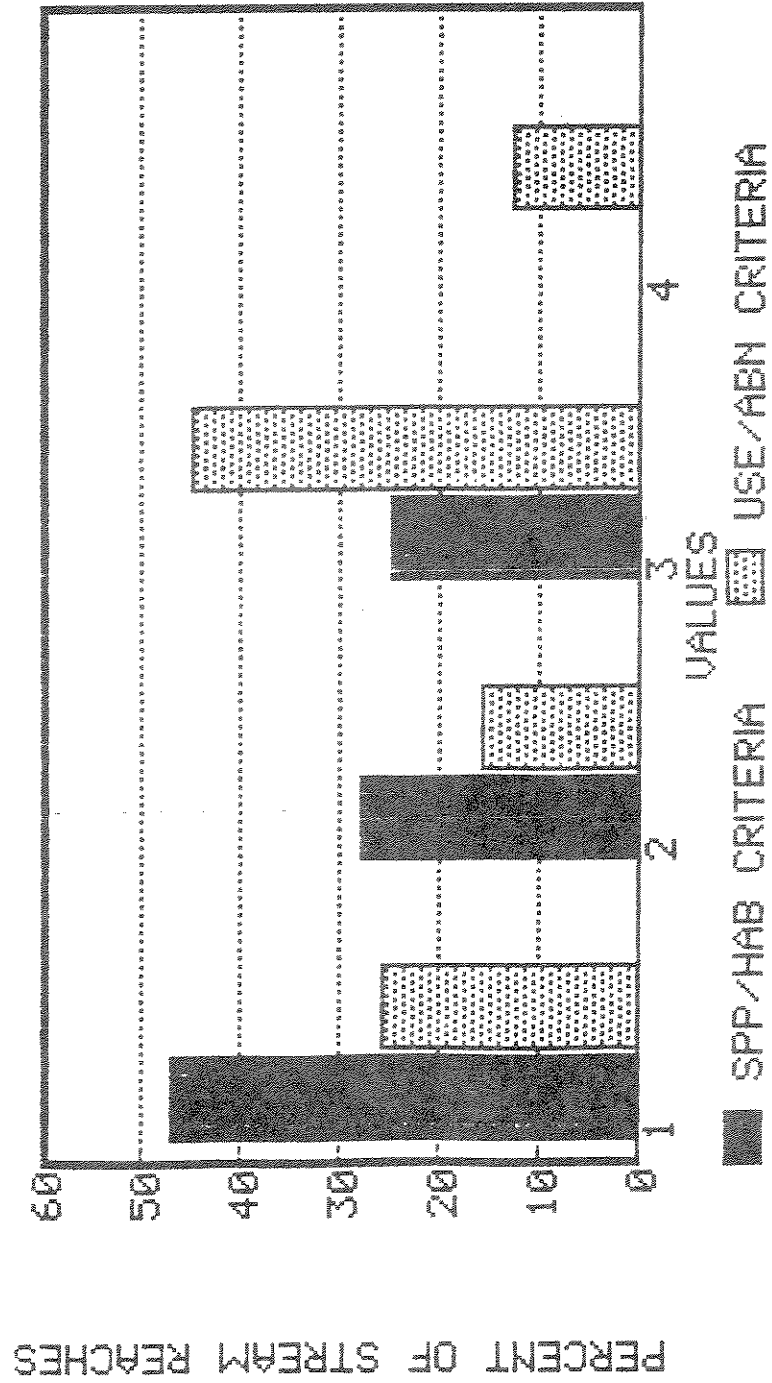
RIVER ASSESMENT STUDY ** WILDLIFE DATA
(WILD-LIST.RPT)

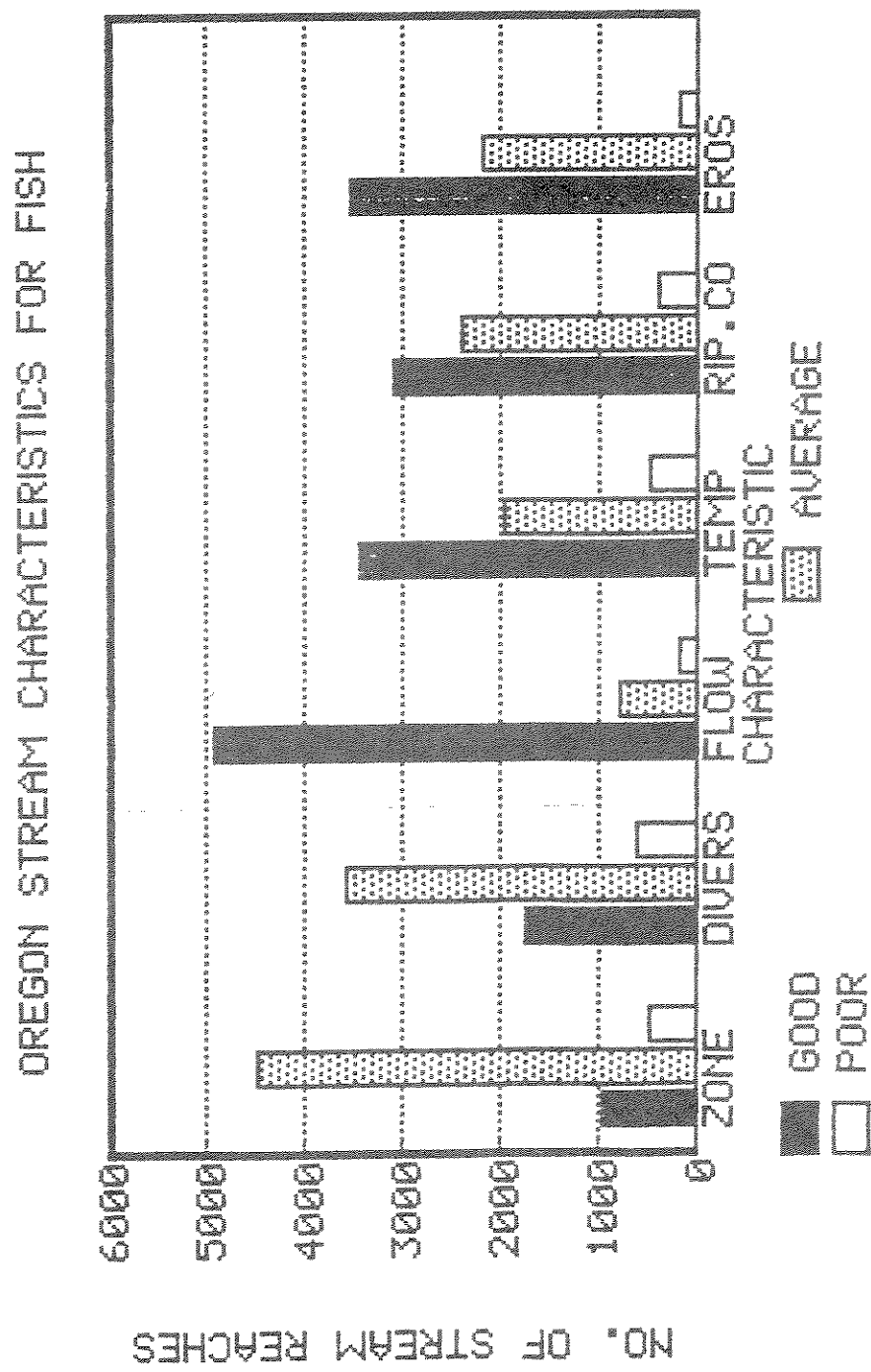
RNUMBER	WHABVAL	WHAB1	WHAB2	WHAB3	WHAB4	WHAB5	WHAB6	WHAB7	WHAB8
RNAME	WSPEVAL	WSPE1	WSPE2	WSPE3	WSPE4	WSPE5			
COMMENT	WRECVAL	WOVAL	WDOC1	WDOC2	WDOC3	WDOC4	WDOC5		
01-026-004	3	74							
JOHNSON CR	3	FURB							
	5	3	WDG4						
BACKWATERS SLOUGHS									
01-020-003	1	11	54						
	1	HALE							
	5	1	WDG4	NGDS					
10-001-001	1	21	28	33	13				
PUYALLUP R	5	WATE	NYSC	FAPE					
	5	5	WDG4	PT	USFWS				
PRES									
10-001-002	4	83	84	85	74				
PUYALLUP R	3	WATE	HALE						
	5	3	WDG4	PT					
SOME HALE USE WATE USE									
10-001-003	4	83	84	85	74				
PUYALLUP R	3	WATE	HALE						
	5	3	WDG4	PT					
SOME HALE USE WATE USE									
10-001-004	2	51	52	56	62				
PUYALLUP R	2	ODHC	CEER	FURB					
	5	2	WDG4	PT					
OLD SECOND GROWTH									
10-001-005	1	1	2	15	23	62			
PUYALLUP R	1	ODHC	CEER	FURB					
	5	1	WDG4	PT					
10-001-006	1	1	2	15	23	62			
PUYALLUP R	1	ODHC	CEER	FURB					
	5	1	WDG4	PT					
10-001-007	4	83	84	85	25				
WHITE R	3	WATE							
	5	3	WDG4	PT					
SOME WATE PRODUCTION									
10-001-008	5								
WHITE R	5								
	5	5	WDG4	PT					
MRES									

OREGON - RESIDENT FISH VALUES



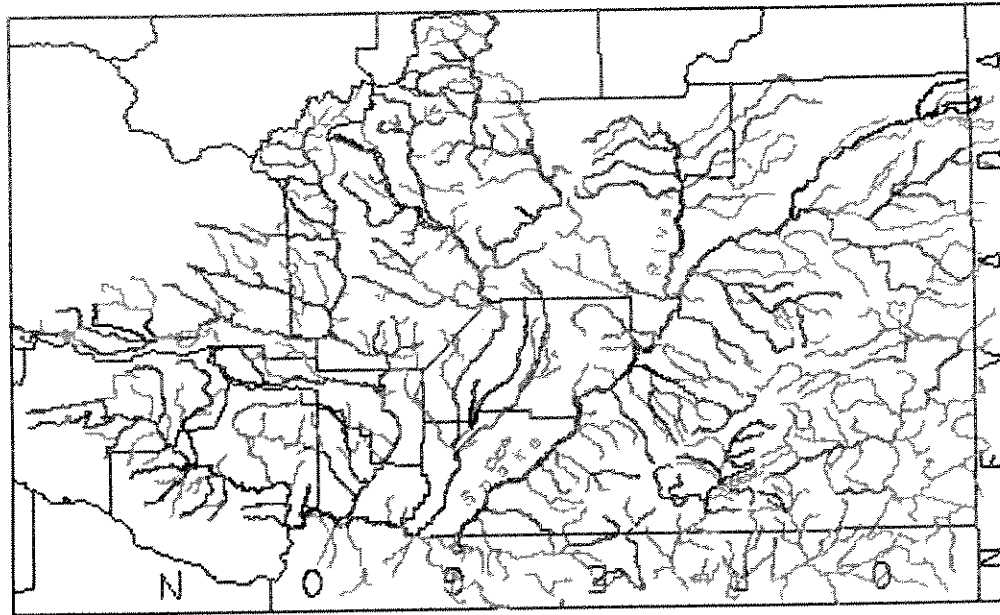
OREGON STREAM CRITERIA FOR WILDLIFE





ACCOUNTING UNIT 170501 (IDAHO)

FISHERIES DATA - FINAL VALUES



LEGEND

— UNCLASSIFIED
OR UNKNOWN

— OUTSTANDING

— SUBSTANTIAL

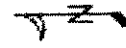
— MODERATE

— LIMITED

MILES

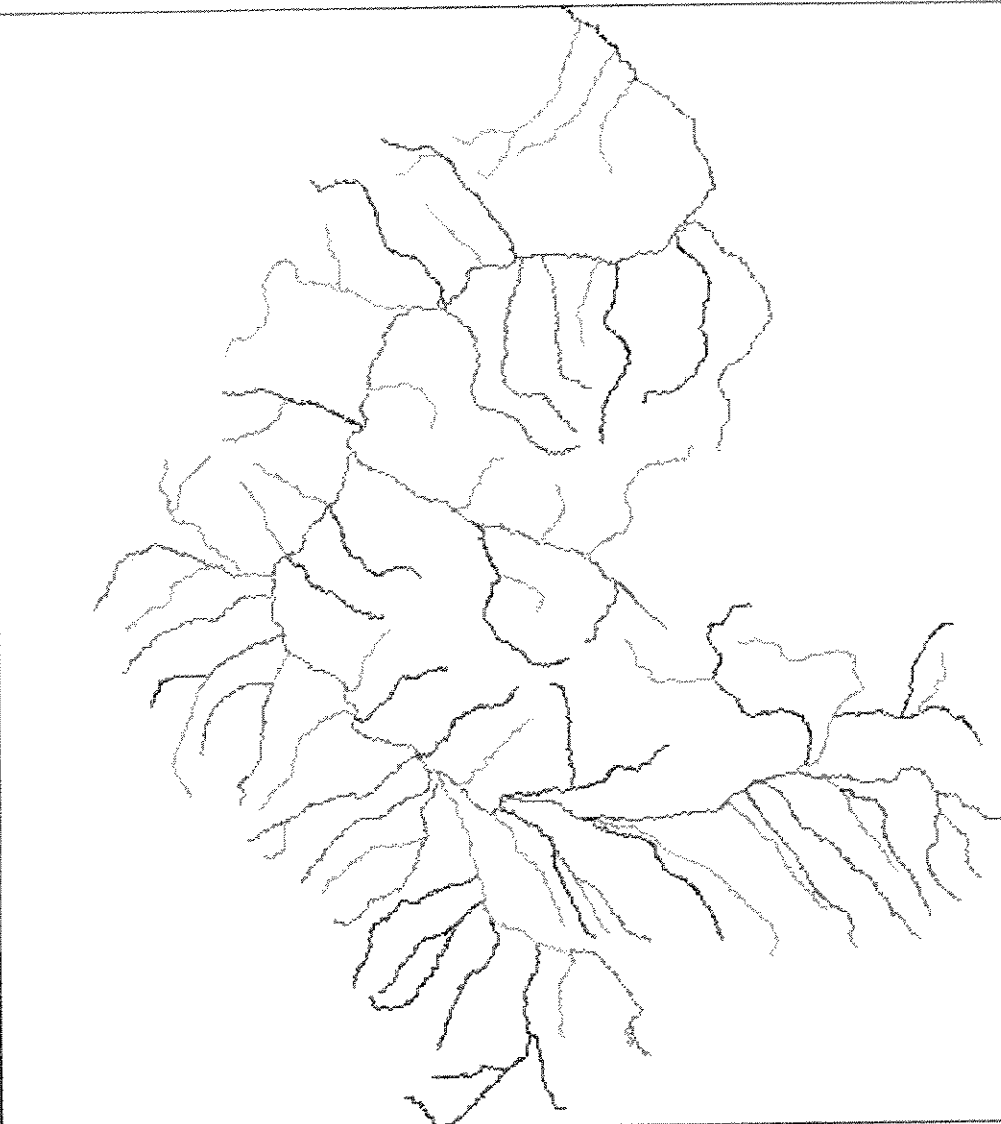


SCALE



PACIFIC NORTHWEST RIVERS STUDY - 1986

BIG HOLE RIVER DRAINAGE RECREATION VALUES



LEGEND

UNCLASSIFIED OR
UNKNOWN

OUTSTANDING

SUBSTANTIAL

MODERATE

LIMITED

