

ODFW AQUATIC INVENTORY PROJECT
OREGON PLAN FOR SALMON & WATERSHEDS
STREAM RESTORATION HABITAT REPORT

STREAM: Wapiti Creek (MS-208)
BASIN: Coquille River
SURVEY TYPE: Post-Tx
DATE: February 4, 2004
SURVEY CREW: Michael Scheu, Jeremiah Bernier
REPORT PREPARED BY: Paul Jacobsen
BASIN AREA: 42.0 km²
USGS MAPS: Daniels Creek
ECOREGION: Coast Range Sedimentary

GENERAL DESCRIPTION:

The Wapiti Creek habitat survey extended 517 meters. The channel was unconstrained broad valley floor. The average valley width index was 7.0 (range: 3.5-20.0). Land use for the reach was young (3-15 cm dbh) and second growth (15-30 cm dbh) trees. The average unit gradient was 7.6 percent. Rapids (45%) and cascades (42%) dominated stream habitat. Cobble (34%) and gravel (28%) dominated stream substrate. Wood volume was high at 35.7 m³/100m.

COMMENTS:

There were no potential barriers to upstream fish migration in the surveyed length.

The crew noted several habitat structures during the survey.

REACH 1

T26S-R11W-S21NE

REACH 1

Valley and Channel Summary

Valley Characteristics (Percent Reach Length)

<u>Narrow Valley Floor</u>		<u>Broad Valley Floor</u>	
Steep V-shape	0%	Constraining Terraces	0%
Moderate V-shape	0%	Multiple Terraces	100%
Open V-shape	0%	Wide Floodplain	0%
Valley Width Index	7.0	VWI Range:	3.5 - 20

Channel Morphology (Percent Reach Length)

<u>Constrained</u>		<u>Unconstrained</u>	
Hillslope	0%	Single Channel	100%
Bedrock	0%	Multiple Channel	0%
Terrace	0%	Braided Channel	0%
Alt. Terrace/Hill	0%		
Landuse	0%		

Channel Characteristics

<u>Type</u>	<u>Length (m)</u>	<u>Area (m2)</u>	<u>Dry Units</u>
Primary	517	1,470	0
Secondary	54	92	1

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 5	<u>First Terrace</u> n = 3
Width: 2.7	Width: 6.1	21.4 (16.5 - 30)	27.3 (23 - 35)
Depth: 0.24	Height: 0.5	1.0 (0.8 - 1.1)	1.4 (1.4 - 1.5)

W:D ratio: 12.8

Stream Flow Type: MF

Average Unit Gradient: 7.6%

Water temperature (°C): 8.0 - 8.0

Entrenchment (ACW:FPW ratio): 3.7

Habitat Units/100m (total channel length): 7.5

Habitat Units/100m (primary channel length): 8.3

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	YT	ST
Riparian Vegetation:	D30	M15

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding:		Reach avg:
Undercut Banks:		Range: -

Large Wood Debris

	<u>Total</u>	<u>Total / 100m primary channel</u>
All pieces (>=3m x 0.15m):	222	43.0
Volume (m ³):	184	35.7
Key pieces (>=12m x 0.60m):	4	0.8

OREGON DEPARTMENT OF FISH AND WILDLIFE

WAPITI CREEK POST-TX (MS-208)

HABITAT INVENTORY

Report Date: 6/16/2004

Survey Date:

2/4/2004

REACH 1		T26S-R11W-S21NE					REACH 1					
HABITAT DETAIL												
Habitat Type	Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Total Area (m ²)	Large Boulders (#>0.5m)	Substrate Percent Wetted Area					
							S/O	Snd	Grvl	Cbl	Bldr	Bdrk
CASCADE/BEDROCK	1	11	4.8	0.10	50	0	0	5	15	10	10	60
CASCADE/BOULDERS	12	227	2.7	0.20	598	0	2	7	21	38	32	2
DRY UNIT	1	18	2.0	0.00	36	0	20	20	20	20	20	0
POOL-ISOLATED	1	5	2.5	0.50	11	0	30	50	10	5	5	0
POOL-LATERAL SCOUR	1	6	4.0	0.95	25	0	5	50	40	5	0	0
POOL-PLUNGE	5	11	2.9	0.68	34	0	3	13	37	33	8	5
RAPID/BOULDERS	10	249	2.8	0.16	702	0	1	7	38	51	3	0
RIFFLE	2	21	1.9	0.10	39	0	5	32	47	11	5	0
STEP/BEDROCK	2	8	2.8	0.18	24	0	0	10	15	15	35	25
STEP/BOULDERS	1	1	1.3	0.20	2	0	0	0	0	10	90	0
STEP/LOG	5	10	2.8	0.08	27	0	2	16	26	34	20	2
STEP/STRUCTURE	2	4	2.8	0.10	15	0	20	20	30	30	0	0
Total:	43	571	2.7	0.24	1,562	0	Avg: 4	13	28	34	18	4

HABITAT SUMMARY								
Habitat Group	Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area		Large Boulders	
					(m ²)	Percent	Number	(# / 100m ²)
Dammed & BW Pools	1	5	2.5	0.50	11	0.72%	0	0.0
Scour Pools	6	17	3.1	0.73	58	3.74%	0	0.0
Glides	0	0			0	0.00%	0	0.0
Riffles	2	21	1.9	0.10	39	2.49%	0	0.0
Rapids	10	249	2.8	0.16	702	44.93%	0	0.0
Cascades	13	238	2.9	0.20	648	41.50%	0	0.0
Step/Falls	10	24	2.6	0.11	68	4.33%	0	0.0
Dry	1	18	2.0	0.00	36	2.30%	0	0.0
Culverts	0	0			0	0.00%	0	0.0

POOL SUMMARY			
	Total	Total of all Channel Lengths # / Km	Primary Channel Length # / Km
All Pools:	7	12.3	13.5
Pools >=1m deep:	0	0.0	0.0
Complex pools (LWD pieces>=3):	2	3.5	3.9
Pool frequency (channel widths/pool):	13.4		
Residual pool depth (avg):	0.58		

Comment Summary

Oregon Plan Monitoring Sites 2002

MONITORING AREA: **3-MS** SITE ID: **208** WAPITI CREEK POST-TX (MS-208)

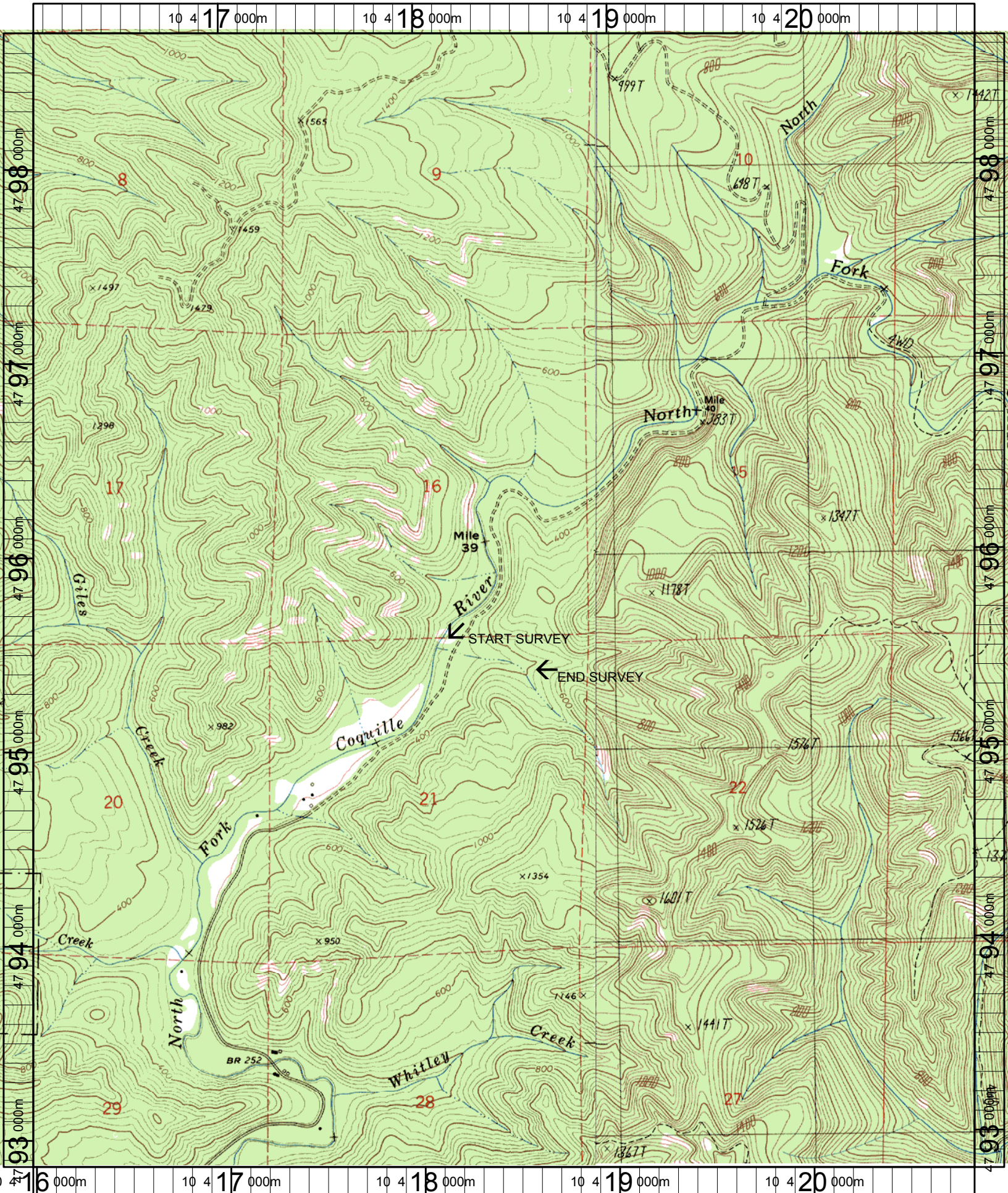
UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
1	CB	00	15	EROSION	5-6 HAB LOGS OUT OF A	
2	PP	00	16.6		NEW CHANNEL CUTS TH	
3	SR	00	22.1	HS	STEPOVER CLAY H=1.3M	
4	LP	00	28.3	HS	7/10 MANY HAB LOGS OU	
5	RB	00	53.3	HSx2	WIDE FLOOD PLAIN-REC	
6	RB	00	86.3	HS		
8	SS	00	89.7		H=2.3 STEPOVER ROAD	
9	RB	00	114.7		~3M DEPOSITION	
10	RB	00	139.7	HS		
12	PP	00	153.6	HS		
13	SS	00	157.6	HS		
15	RB	00	213.1	HS		
17	IP	10	226.6		CAUSED BY OVERFLOW	
19	SL	00	240.1	HS	H=2.5	
20	RB	00	265.1	HS		
21	RB	00	290.1	HS		
22	RB	00	313.8		T=8C	
23	CB	00	327.3		BADLY ERODED BANKS	
25	CB	01	344.3	TJ/-		
27	SL	11	344.3		H=2M	
28	SR	00	346.4		H=1.1M	

Comment Summary

Oregon Plan Monitoring Sites 2002

MONITORING AREA: 3-MS SITE ID: 208 WAPITI CREEK POST-TX (MS-208)

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
31	CB	01	424.4	TJ/-	60/40	SPLIT
32	CB	11	424.4	ACW=5M	TRIB IS	SOURCE OF BLO
35	SB	01	442.9		H=0.9M	
36	CB	01	461.9	-/SS	BDRCK=	CLAY
37	PP	01	464.1		H=1M	
38	SL	01	464.8		H=1M	
40	SL	02	474.8		H=1.4M	
41	DU	02	474.8		SUB LOG	JAM
43	CB	00	516.8		HUNK OF	CULVERT



Name: DANIELS CREEK
 Date: 8/4/2004
 Scale: 1 inch equals 2000 feet

Location: 10 418433 E 4795759 N
 Caption: WAPITI CREEK RESTORATION SITE - NF COQUILLE BASIN