

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

STREAM: Bear Creek (MS125)
BASIN: Coquille River
SURVEY TYPE: Pre-Tx
DATE: February 28, 2002
SURVEY CREW: Sara Meguffy, Sarah Schuster
REPORT PREPARED BY: Paul Jacobsen
BASIN AREA: 59.8 km²
USGS MAPS: Bill Peak
ECOREGION: Coast Range Sitka Spruce

GENERAL DESCRIPTION:

The Bear Creek habitat survey extended 928 meters. The channel was alternately constrained by hillslopes and terraces in a broad valley floor. The average valley width index was 4.4 (range: 3 – 5.5). Land use for the reach was second growth (15-30 cm dbh) trees. The average unit gradient was 0.4 percent. Scour pools (68%) and riffles (31%) dominated stream habitat. Gravel (39%) and sand (33%) dominated stream substrate. Wood volume was low at 11.3 m³/100m.

COMMENTS:

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

The crew noted several debris jams as well as evidence of beaver activity during the survey.

REACH

T29S-R14W-S12SW

REACH

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	100%
Moderate V-shape	0%	Multiple Terraces	0%
Open V-shape	0%	Wide Floodplain	0%
Valley Width Index	4.4	VWI Range:	3 - 5.5

Channel Morphology (Percent Reach Length)

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

Channel Characteristics

<u>Type</u>	<u>Length (m)</u>	<u>Area (m2)</u>	<u>Dry Units</u>
Primary	928	5,296	0
Secondary	20	25	0

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 5	<u>First Terrace</u> n = 4
Width: 5.5	Width: 11.1	26.0 (12.4 - 50)	26.7 (19.8 - 45)
Depth: 0.70	Height: 1.0	2.1 (1.8 - 2.7)	2.5 (2.1 - 3)

W:D ratio: 11.2
Stream Flow Type: MF
Average Unit Gradient: 0.4%
Water temperature (°C): 8.0 - 8.0

Entrenchment (ACW:FPW ratio): 2.5
Habitat Units/100m (total channel length): 5.0
Habitat Units/100m (primary channel length): 5.1

Riparian, Bank, and Wood Summary

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

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):	107	11.5
Volume (m ³):	104	11.3
Key pieces (>=12m x 0.60m):	4	0.4

OREGON DEPARTMENT OF FISH AND WILDLIFE

BEAR CREEK PRE-TX (MS-125)

HABITAT INVENTORY

Report Date: 11/15/2013

Survey Date:

2/28/2002

REACH	T29S-R14W-S12SW							REACH					
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/BOULDERS	1	10	0.8	0.05	8	0	10	15	25	40	10	0	
POOL-LATERAL SCOUR	24	590	5.9	1.18	3,507	0	23	38	30	7	1	0	
POOL-STRAIGHT SCOUR	1	21	6.7	0.90	137	0	20	35	40	5	0	0	
RIFFLE	21	327	5.1	0.18	1,669	0	10	28	49	12	0	0	
Total:	47	948	5.5	0.70	5,321	0	Avg: 17	33	39	10	1	0	

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	0	0			0	0.00%	0	0.0	
Scour Pools	25	611	5.9	1.17	3,645	68.49%	0	0.0	
Glides	0	0			0	0.00%	0	0.0	
Riffles	21	327	5.1	0.18	1,669	31.36%	0	0.0	
Rapids	0	0			0	0.00%	0	0.0	
Cascades	1	10	0.8	0.05	8	0.15%	0	0.0	
Step/Falls	0	0			0	0.00%	0	0.0	
Dry	0	0			0	0.00%	0	0.0	
Culverts	0	0			0	0.00%	0	0.0	

POOL SUMMARY			
	Total of all Channel Lengths		Primary Channel Length
	<u>Total</u>	<u># / Km</u>	<u># / Km</u>
All Pools:	25	26.4	27.0
Pools >=1m deep:	17	17.9	18.3
Complex pools (LWD pieces>=3):	12	12.7	12.9
Pool frequency (channel widths/pool):	3.4		
Residual pool depth (avg):	1.01		

Comment Summary

Oregon Plan Monitoring Sites 2002

MONITORING AREA: **3-MS** SITE ID: **125** **BEAR CREEK PRE-TX (MS-125)**

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTES
1	LP	00	23.1	FC	START SIGN ALDER LEFT, SG = 2
2	LP	00	47.6	BV	SG = 2 SQ M
3	RI	00	61.1		SG = 4 SQ M
4	LP	00	87.6		ABUNDANT FRY
6	LP	00	129.1		SG = 2 SQ M
7	RI	00	153.6		SG = 2 SQ M
8	LP	00	178.1	BV	
10	RI	00	217.9	WL	REDD, SG = 4 SQ M
12	LP	00	264.4	DJ	REDD, SG = 4 SQ M
13	LP	00	289.4		SG = 4 SQ M
14	LP	00	308.8	DJ	
15	RI	00	324.3	WL, BV	
16	LP	01	347.5	BV, WL, DJ	/TJ, SG = 2 SQ M
18	LP	00	364.2	DJ	
19	RI	00	385		SG = 2 SQ M
20	LP	00	436	DJ	
21	LP	00	454.4		CARCASS
22	RI	00	479.4	RF	
24	LP	00	515.3	DJ	SG = 2 SQ M
26	LP	00	551.4	DJ	
28	SP	00	587	DJ	

Comment Summary

Oregon Plan Monitoring Sites 2002

MONITORING AREA: **3-MS** SITE ID: **125** **BEAR CREEK PRE-TX (MS-125)**

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTES
29	RI	00	592.6	WL	PILEATED WOODPECKER
31	RI	00	641.1		SG = 2 SQ M
34	RI	00	688.1		SG = 4 SQ M
37	LP	00	746.7	WL, DJ	DEAD DEER, SG = 8 SQ M
38	LP	00	783.7		REDD, SG = 1 SQ M
39	RI	01	792.1	TJ/	MONROE CREEK
40	RI	11	792.1		/SPAWNING SURVEY SIGN
41	RI	00	817.1		SG = 10 SQ M
42	LP	00	847.5	DJ, FC	SG = 6 SQ M
43	RI	00	861.3		SG = 2 SQ M
44	LP	00	884.5	DJ	
46	LP	00	908.8	BV	
47	RI	00	927.6	DJ	DOWNED MYRTLEWOOD, SG = 2 SQ M