

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

STREAM: Deep Creek (S132)
BASIN: Pistol River
SURVEY TYPE: Pre-Tx
DATE: March 11, 2002
SURVEY CREW: Sara Meguffy, Sarah Schuster
REPORT PREPARED BY: Paul Jacobsen
BASIN AREA: 8.4 km²
USGS MAPS: Sundown Mtn.
ECOREGION: Coast Range Sitka Spruce

GENERAL DESCRIPTION:

The Deep Creek habitat survey extended 511 meters. The channel was constrained by hillslopes in a moderate V-shaped valley floor. The average valley width index was 2.2 (range: 1.1 – 3.0). Land use for the reach was second growth (15-30 cm dbh) trees. The average unit gradient was 2.6 percent. Riffles (53%) and rapids (19%) dominated stream habitat. Cobble (31%), boulders (26%) and gravel (24%) dominated stream substrate. Wood volume was low at 5.5 m³/100m.

COMMENTS:

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

REACH

T38S-R14W-S14SE

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	0%
Moderate V-shape	100%	Multiple Terraces	0%
Open V-shape	0%	Wide Floodplain	0%
Valley Width Index	2.2	VWI Range:	1.1 - 3

Channel Morphology (Percent Reach Length)

<u>Constrained</u>		<u>Unconstrained</u>	
Hillslope	100%	Single Channel	0%
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	511	3,066	0
Secondary	140	303	1

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 5	<u>First Terrace</u> n = 2
Width: 5.4	Width: 9.2	16.8 (11.9 - 21.1)	19.0 (14.9 - 23.1)
Depth: 0.52	Height: 0.9	1.7 (1.5 - 2)	2.0 (1.65 - 2.3)

W:D ratio: 10.8
Stream Flow Type: MF
Average Unit Gradient: 2.6%
Water temperature (°C): 9.5 - 9.5

Entrenchment (ACW:FPW ratio): 1.9
Habitat Units/100m (total channel length): 4.9
Habitat Units/100m (primary channel length): 6.3

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	ST	
Riparian Vegetation:	D15	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):	47	9.2
Volume (m ³):	28	5.5
Key pieces (>=12m x 0.60m):	0	0.0

OREGON DEPARTMENT OF FISH AND WILDLIFE

DEEP CREEK PRE-TX (S-132)

HABITAT INVENTORY

Report Date: 11/15/2013

Survey Date:

3/11/2002

REACH	T38S-R14W-S14SE							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	5	75	3.8	0.32	363	0	7	9	23	25	36	0	
POOL-LATERAL SCOUR	2	20	6.7	1.20	130	0	10	18	30	28	15	0	
POOL-PLUNGE	4	43	6.8	1.21	292	0	7	14	26	26	27	0	
PUDDLED UNIT	1	63	2.3	0.02	145	0	10	15	30	40	5	0	
RAPID/BOULDERS	5	104	6.4	0.49	655	0	5	10	20	32	33	0	
RIFFLE	14	346	5.3	0.38	1,783	0	5	13	23	34	25	0	
STEP/LOG	1	0	3.1	0.10	1	0	5	15	25	45	10	0	
Total:	32	651	5.4	0.52	3,369	0	Avg: 6	12	24	31	26	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	6	63	6.8	1.21	422	12.53%	0	0.0	
Glides	0	0			0	0.00%	0	0.0	
Riffles	14	346	5.3	0.38	1,783	52.93%	0	0.0	
Rapids	5	104	6.4	0.49	655	19.44%	0	0.0	
Cascades	5	75	3.8	0.32	363	10.76%	0	0.0	
Step/Falls	1	0	3.1	0.10	1	0.04%	0	0.0	
Dry	1	63	2.3	0.02	145	4.30%	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:	6	9.2	11.7
Pools >=1m deep:	5	7.7	9.8
Complex pools (LWD pieces>=3):	3	4.6	5.9
Pool frequency (channel widths/pool):	11.8		
Residual pool depth (avg):	0.90		

Comment Summary

Oregon Plan Monitoring Sites 2002

MONITORING AREA: **5-SC** SITE ID: **132** **DEEP CREEK PRE-TX (S-132)**

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTES
1	RI	00	25		START TAG/
4	RI	01	95.6		SITE 8
5	RI	02	95.6		SG = 2 SQ M
6	LP	01	105.9		SITE 8
9	SL	00	142.2	HS, CS/CS	CABLED, H = .3
10	RI	00	154.9		SITE 7
11	LP	00	164.2	HS, CS/	BOULDERS, LOGS
12	RB	00	170.5		SITE 6
13	PP	00	180.7	HS, CS/CS	SG = 2 SQ M
14	RI	00	205.7	HS	SITE 5
15	RI	01	230.7		SITE 4
16	RB	01	255.7		SITE 3
17	CB	00	280.7	DJ	SITE 2, SITE 1
18	RI	02	280.7	TJ/	
20	PD	03	280.7	WL	RSN
23	RI	01	355.7	TJ/	
26	RI	00	405.7	LA/	
27	CB	00	430.7	DJ	SPAWNING SURVEY SIGN
32	CB	01	511.1	/TJ	END SIGN ON ALDER