

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

STREAM: Pea Creek (S145)
BASIN: Euchre Creek
SURVEY TYPE: Pre-Tx
DATE: March 5, 2002
SURVEY CREW: Sara Meguffy, Sarah Schuster
REPORT PREPARED BY: Paul Jacobsen
BASIN AREA: 2.7 km²
USGS MAPS: Brushy Bald Mtn.
ECOREGION: Coast Range Sitka Spruce

GENERAL DESCRIPTION:

The Pea Creek habitat survey extended 519 meters. The channel was constrained by terraces in a broad valley floor. The average valley width index was 60.0 (range: 50.0 – 75.0). Land uses for the reach were light grazing and second growth (15-30 cm dbh) trees. The average unit gradient was 1.2 percent. Riffles (84%) dominated stream habitat. Gravel (37%) and sand (27%) dominated stream substrate. Wood volume was low at 0.4 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. These were described as small logs, some of which were not functioning as intended.

REACH

T34S-R14W-S10NW

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	60.0	VWI Range:	50 - 75

Channel Morphology (Percent Reach Length)

<u>Constrained</u>		<u>Unconstrained</u>	
Hillslope	0%	Single Channel	0%
Bedrock	0%	Multiple Channel	0%
Terrace	100%	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	519	940	0
Secondary	10	15	0

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 5	<u>First Terrace</u> n = 4
Width: 1.9	Width: 4.8	66.6 (6.8 - 300)	11.8 (8 - 15.5)
Depth: 0.23	Height: 0.8	1.6 (1.2 - 2)	2.1 (1.5 - 2.5)

W:D ratio: 6.2
 Stream Flow Type: MF
 Average Unit Gradient: 1.2%
 Water temperature (°C): 9.5 - 9.5

Entrenchment (ACW:FPW ratio): 11.9
 Habitat Units/100m (total channel length): 5.9
 Habitat Units/100m (primary channel length): 6.0

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	LG	ST
Riparian Vegetation:	G	M3

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):	18	3.5
Volume (m ³):	2	0.4
Key pieces (>=12m x 0.60m):	0	0.0

OREGON DEPARTMENT OF FISH AND WILDLIFE

EDSON CREEK PRE-TX (S135)

HABITAT INVENTORY

Report Date: 11/15/2013

Survey Date:

3/11/2002

REACH	T36S-R14W-S8NE							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	
POOL-LATERAL SCOUR	10	155	5.6	0.91	866	0	21	36	36	7	0	0	
RAPID/BOULDERS	1	2	0.5	0.10	1	0	20	40	30	10	0	0	
RIFFLE	21	375	4.2	0.40	1,823	0	18	33	42	7	0	0	
Total:	32	531	4.5	0.55	2,690	0	Avg: 19	34	40	7	0	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	10	155	5.6	0.91	866	32.20%	0	0.0	
Glides	0	0			0	0.00%	0	0.0	
Riffles	21	375	4.2	0.40	1,823	67.77%	0	0.0	
Rapids	1	2	0.5	0.10	1	0.03%	0	0.0	
Cascades	0	0			0	0.00%	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	Total of all Channel Lengths # / Km	Primary Channel Length # / Km
All Pools:	10	18.8	19.6
Pools >=1m deep:	3	5.6	5.9
Complex pools (LWD pieces>=3):	1	1.9	2.0
Pool frequency (channel widths/pool):	7.7		
Residual pool depth (avg):	0.64		

Comment Summary

Oregon Plan Monitoring Sites 2002

MONITORING AREA: **5-SC** SITE ID: **145** **PEA CREEK PRE-TX (S-145)**

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTES
1	RI	00	9.8		STAR AT MOUTH
2	LP	00	16.4		LOTS OF BLACKBERRY, SG=2 SQ M
3	RI	00	41.4		REPLANTED CEDARS & FIRS
9	RI	00	134	WL	HAIRY WOODPECKER, HUTTON VIREO
10	RI	00	146		SG = 4 SQ M
11	RI	00	168.9	FC	BLACKBERRY IS THINNING OUT
12	LP	00	179.4	RF	CATTLE USE
13	RI	00	191.9	HS	OLD STRUCTURE - SMALL CUT LOG
15	SL	00	199.6	HS	SMALL LOG CREATES PP SG = 4
17	RI	00	249.6	BC	ROAD NOT IN USE
18	RI	00	262	HS	SMALL LOGS - NOT FUNCTIONING
20	RI	00	291.5		SG = 4 SQ M
21	RI	00	316.5		SG = 4 SQ M
22	RI	00	341.5		SITE 4, SG = 4 SQ M
23	RI	00	370.5	/SS	
25	RI	00	396.5	FC	
26	RI	01	421.5	WL, /CE	SNIPE, 1.3 M CULV DROP
27	RI	11	421.5		RIPARIAN FENCING, BUT GRAZING
29	CC	00	448.8	CC	1.4 x 2.1 GALVANIZED