

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

STREAM: Foster Creek (L86)
BASIN: Clackamas River
SURVEY TYPE: Pre-Tx
DATE: February 27, 2002
SURVEY CREW: Loren Stucker, Russ Macal
REPORT PREPARED BY: Paul Jacobsen
BASIN AREA: 9.0 km²
USGS MAPS: Redland
ECOREGION: Willamette Valley Foothills

GENERAL DESCRIPTION:

The Foster Creek habitat survey extended 751 meters. The channel was unconstrained in a broad valley floor. The average valley width index was 14.2 (range: 10.0-20.0). Land uses for the reach were heavy grazing and rural residential. The average unit gradient was 0.7 percent. Riffles (57%) and scour pools (26%) dominated stream habitat. Gravel (59%), cobble (18%) and silt/organics (18%) dominated stream substrate. Wood volume was low at 0.5 m³/100m.

COMMENTS:

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

REACH

T2S-R3E-S43SE

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	0%	Multiple Terraces	100%
Open V-shape	0%	Wide Floodplain	0%
Valley Width Index	14.2	VWI Range:	10 - 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	751	1,804	0
Secondary	123	224	1

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 6	<u>First Terrace</u> n = 6
Width: 2.4	Width: 3.2	4.5 (3 - 6)	5.2 (3.1 - 7.9)
Depth: 0.25	Height: 0.4	0.7 (0.6 - 1)	0.8 (0.7 - 1.1)

W:D ratio: 9.4
Stream Flow Type: MF
Average Unit Gradient: 0.7%
Water temperature (°C): 4.0 - 4.0

Entrenchment (ACW:FPW ratio): 1.4
Habitat Units/100m (total channel length): 4.6
Habitat Units/100m (primary channel length): 5.3

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	HG	RR
Riparian Vegetation:	S	D15

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):	10	1.3
Volume (m ³):	4	0.5
Key pieces (>=12m x 0.60m):	0	0.0

OREGON DEPARTMENT OF FISH AND WILDLIFE

FOSTER CREEK PRE-TX (L-86)

HABITAT INVENTORY

Report Date: 11/15/2013

Survey Date:

2/27/2002

REACH		T2S-R3E-S43SE						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	
DRY UNIT	1	61	2.0	0.00	122	0	75	5	15	5	0	0	
GLIDE	3	66	3.4	0.25	223	0	15	5	62	18	0	0	
POOL-LATERAL SCOUR	15	191	2.9	0.36	537	0	17	4	63	17	0	0	
RIFFLE	21	555	2.0	0.19	1,147	0	17	5	59	19	0	0	
Total:	40	874	2.4	0.25	2,029	0	Avg: 18	5	59	18	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	15	191	2.9	0.36	537	26.46%	0	0.0	
Glides	3	66	3.4	0.25	223	10.98%	0	0.0	
Riffles	21	555	2.0	0.19	1,147	56.54%	0	0.0	
Rapids	0	0			0	0.00%	0	0.0	
Cascades	0	0			0	0.00%	0	0.0	
Step/Falls	0	0			0	0.00%	0	0.0	
Dry	1	61	2.0	0.00	122	6.01%	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:	15	17.2	20.0
Pools >=1m deep:	0	0.0	0.0
Complex pools (LWD pieces>=3):	0	0.0	0.0
Pool frequency (channel widths/pool):	18.2		
Residual pool depth (avg):	0.16		

Comment Summary

Oregon Plan Monitoring Sites 2002

MONITORING AREA: 7-L SITE ID: 86 FOSTER CREEK PRE-TX (L-86)

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTES
1	RI	00	18.2	FC	START AT FC
2	LP	00	24.7		GENERALLY HEAVILY GRAZED
6	LP	00	74.3		QUESTIONABLE POOLS
10	LP	00	158.8		CATTLE CROSSING THRU WATER
11	RI	00	201.9	RF	CUT LOGS FOR HS ON BANK
17	RI	01	321.4		TRIB FLOW = 3%
23	LP	00	406.6	/SS	
31	LP	00	581.5		HEAVY CATTLE CROSSING
32	RI	00	608.8	FC	
33	LP	01	620.8		FENCED FROM CATTLE
40	LP	00	750.9		END AT FC BEFORE CC