

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

STREAM: North Fork Eagle Creek (L157)
BASIN: Clackamas River
SURVEY TYPE: Pre-Tx
DATE: February 27, 2002
SURVEY CREW: Loren Stucker, Russ Macal
REPORT PREPARED BY: Paul Jacobsen
BASIN AREA: 73.6 km²
USGS MAPS: Estacada, Cherryville
ECOREGION: Willamette Valley Foothills

GENERAL DESCRIPTION:

The North Fork Eagle Creek habitat survey extended 557 meters. The channel was alternately constrained by hillslopes and terraces in a broad valley floor. The average valley width index was 5.4 (range: 5 - 6). Land uses for the reach were second growth (15-30 cm dbh) and large (30-50 cm dbh) trees. The average unit gradient was 1.5 percent. Rapids (46%) and scour pools (27%) dominated stream habitat. Cobble (39%) and gravel (28%) dominated stream substrate. Wood volume was low at 3.4 m³/100m.

COMMENTS:

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

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

REACH

T03S-R04E-S11NE

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	5.4	VWI Range:	5 - 6

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	557	6,593	0
Secondary	78	155	0

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 5	<u>First Terrace</u> n = 5
Width: 10.4	Width: 15.1	22.1 (18.2 - 26.9)	28.9 (22.7 - 32)
Depth: 0.69	Height: 0.7	1.3 (1.2 - 1.6)	2.6 (1.9 - 3.5)

W:D ratio: 23.0
Stream Flow Type: MF
Average Unit Gradient: 1.5%
Water temperature (°C): 4.8 - 4.8

Entrenchment (ACW:FPW ratio): 1.5
Habitat Units/100m (total channel length): 3.6
Habitat Units/100m (primary channel length): 4.1

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	ST	LT
Riparian Vegetation:	D15	S

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):	19	3.4
Volume (m ³):	19	3.4
Key pieces (>=12m x 0.60m):	1	0.2

OREGON DEPARTMENT OF FISH AND WILDLIFE

NF EAGLE CREEK PRE-TX (L-157)

HABITAT INVENTORY

Report Date: 11/15/2013

Survey Date:

2/27/2002

REACH		T03S-R04E-S11NE					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	2	45	1.2	0.08	57	0	0	3	8	68	23	0
POOL-ALCOVE	1	33	3.0	1.10	98	0	70	10	15	5	0	0
POOL-DAMMED	1	22	11.1	1.20	249	0	0	15	25	30	20	10
POOL-LATERAL SCOUR	4	124	9.0	1.40	1,168	0	2	7	33	33	17	6
POOL-STRAIGHT SCOUR	1	47	14.0	1.30	661	0	5	5	30	40	15	5
RAPID/BOULDERS	10	254	12.0	0.46	3,088	0	0	5	28	38	27	2
RIFFLE	4	110	13.1	0.48	1,428	0	0	5	38	39	17	0
Total:	23	635	10.4	0.69	6,747	0	Avg: 4	6	28	39	21	3

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	2	55	7.1	1.15	346	5.13%	0	0.0	
Scour Pools	5	171	10.0	1.38	1,829	27.10%	0	0.0	
Glides	0	0			0	0.00%	0	0.0	
Riffles	4	110	13.1	0.48	1,428	21.16%	0	0.0	
Rapids	10	254	12.0	0.46	3,088	45.76%	0	0.0	
Cascades	2	45	1.2	0.08	57	0.84%	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:	7	11.0	12.6
Pools >=1m deep:	7	11.0	12.6
Complex pools (LWD pieces>=3):	2	3.2	3.6
Pool frequency (channel widths/pool):	6.0		
Residual pool depth (avg):	0.78		

Comment Summary

Oregon Plan Monitoring Sites 2002

MONITORING AREA: 7-L SITE ID: 157 NF EAGLE CREEK PRE-TX (L-157)

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTES
1	LP	01	25.1		START SIGN /ALDER ABOVE BIG RR
2	AL	10	25.1		POSSIBLY CREATED BY BACKHOE
4	DP	00	63.4	BV	NO STEP
5	RI	01	87.6	TJ/	
6	CB	11	87.6		TRIB UNIT <5%
9	RB	01	167.6	TJ/	
10	CB	11	167.6		TRIB UNIT <5%
12	LP	00	230	BV	SG~1M^2 1 REDD
13	RB	00	259.5		SG=1M^2, 2 REDDS
15	RB	00	301.3		SG=1M^2, REDD
16	SP	00	348.5	/SS	
18	RI	00	412.1		SG=1M^2, REDD
20	RB	00	485		SG=1M^2, REDD
21	RB	00	510		SG=1M^2, REDD
23	RI	00	557		END SIGN ALDER/