

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

STREAM: Brush Creek Tributary (S-239)
BASIN: Pacific Ocean
SURVEY TYPE: Post-Tx
DATE: March 22, 2006
SURVEY CREW: Seth Ring, Scott Venables
REPORT PREPARED BY: Paul Jacobsen
BASIN AREA: 3.9 km²
USGS MAPS: Port Orford
ECOREGION: Coast Range Sitka Spruce

GENERAL DESCRIPTION:

The Brush Creek Tributary habitat survey extended 599 meters. The channel was unconstrained in a broad valley floor. The average valley width index was 17.6 (range: 2.1-50.0). Land use for the reach was greenway. The average unit gradient was 0.9 percent. Riffles (72%) and scour pools (27%) dominated stream habitat. Gravel (56%) and cobble (25%) dominated stream substrate. Wood volume was moderate at 24.0 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.

REACH 1

T33S-R15W-S25SE

REACH 1

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	17.6	VWI Range:	2.1 - 50

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 Channel	599	2,511	0
Secondary Channel	70	75	0
Off-Channel Units	107	124	0

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 5	<u>First Terrace</u> n = 5
Width: 3.6	Width: 11.1	31.8 (15.1 - 63.2)	35.3 (19.1 - 67.7)
Depth: 0.38	Height: 0.7	1.4 (1.2 - 1.6)	2.0 (1.8 - 2.3)

W:D ratio: 16.8

Entrenchment (ACW:FPW ratio): 4.4

Stream Flow Type: MF

Habitat Units/100m (total channel length): 4.9

Average Unit Gradient: 0.9%

Habitat Units/100m (primary channel length): 6.3

Water temperature (°C): 9.0 - 9.0

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	GN	
Riparian Vegetation:	D30	C30

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):	135	22.5
Volume (m ³):	144	24.0
Key pieces (>=12m x 0.60m):	12	2.0

OREGON DEPT OF FISH AND WILDLIFE BRUSH CREEK TRIBUTARY POST-TX (5-SC, 239)

HABITAT INVENTORY Report Date: 12/6/2006 Survey Date: 3/22/2006

REACH 1		T33S-R15W-S25SE					REACH 1					
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-BACKWATER	2	5	1.5	0.45	7	0	8	28	38	20	3	5
POOL-LATERAL SCOUR	16	195	3.7	0.56	731	0	3	26	53	17	0	1
RAPID/BOULDERS	1	12	2.3	0.25	26	0	0	0	45	55	0	0
RIFFLE	19	566	3.7	0.24	1,945	0	2	5	61	32	0	0
Total:	38	777	3.6	0.38	2,710	0	Avg: 3	15	56	25	0	1

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	5	1.5	0.45	7	0.26%	0	0.0	
Scour Pools	16	195	3.7	0.56	731	26.97%	0	0.0	
Glides	0	0			0	0.00%	0	0.0	
Riffles	19	566	3.7	0.24	1,945	71.79%	0	0.0	
Rapids	1	12	2.3	0.25	26	0.98%	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	Primary Channel Length
		# / Km	# / Km
All Pools:	18	23.2	30.0
Pools >=1m deep:	0	0.0	0.0
Complex pools (LWD pieces>=3):	12	15.4	20.0
Pool frequency (channel widths/pool):	3.9		
Residual pool depth (avg):	0.41		

Comment Summary

Restoration Monitoring Sites 2006

MONITORING AREA: **5-SC** SITE ID: **239** BRUSH CREEK TRIBUTARY

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
1	RB	00	11.5		T=9.0C AT 2:30PM	
2	RI	00	37.7	BC, CS/CS	FOOT BRIDGE, US-MT,GN,D30,S	
8	RI	00	146.9		US-MT,GN,C30,D35/45	
13	RI	00	202.7		HARDPAN	
15	LP	00	226.5	HS	HS=3 LOGS	
18	BW	10	284.7		US-MT,GN,D30,D	
19	LP	01	290.4	/TJ		
20	RI	11	290.4		ACW=2.1M, T=9.0C AT 3:40PM	
22	LP	01	329	HS	HS=10 LOGS	
23	RI	02	329		ACW=2.8M	
26	LP	00	364.5	HS		
28	LP	00	408.6	HS	HS=6 LOGS	
30	LP	00	429.3		HARDPAN	
31	RI	00	458.7	HS	HS=2 LOGS	
32	LP	00	483.6	HS	HS=3 LOGS	
34	LP	00	520.7		CT-MT,GN,D45,F (SWORD FERN)	
36	LP	00	576.2	HS	HS=5 LOGS	
37	RI	01	599.3	TJ/, HS		
38	RI	11	599.3		ACW=3.7M, T=9.5C AT 5:00PM	



<p>Name: PORT ORFORD Date: 1/21/2004 Scale: 1 inch equals 2000 feet</p>	<p>Location: 10 385354 E 4726023 N Caption: BRUSH CREEK TRIBUTARY RESTORATION SITE - OCEAN BASIN</p>
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