

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

STREAM: Fall Creek Tributary B (MS163)
BASIN: Coos River
SURVEY TYPE: Pre-Tx
DATE: February 5, 2002
SURVEY CREW: Sara Meguffy, Sarah Schuster
REPORT PREPARED BY: Paul Jacobsen
BASIN AREA: 7.0 km²
USGS MAPS: Ivers Peak
ECOREGION: Coast Range Sedimentary

GENERAL DESCRIPTION:

The Fall Creek Tributary B Creek habitat survey extended 519 meters. The channel was alternately constrained by hillslopes and terraces in a broad valley floor. The average valley width index was 9.8 (range: 1.0 – 20.0). Land use for the reach was second growth (15-30 cm dbh) trees. The average unit gradient was 2.0 percent. Riffles (64%) and scour pools (30%) dominated stream habitat. Gravel (27%), cobble (21%) and sand (20%) dominated stream substrate. Wood volume was low at 17.4 m³/100m.

COMMENTS:

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

The crew noted two habitat structures during the survey.

REACH

T27S-R9W-S20NW

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	9.8	VWI Range:	1 - 20

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	519	2,262	0
Secondary	65	226	0

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 4	<u>First Terrace</u> n = 3
Width: 4.0	Width: 7.5	11.8 (7.6 - 18.3)	10.4 (9.8 - 11.5)
Depth: 0.42	Height: 0.7	1.4 (1.1 - 1.7)	1.7 (1.4 - 1.9)

W:D ratio: 11.0
 Stream Flow Type: MF
 Average Unit Gradient: 2.0%
 Water temperature (°C): 6.0 - 6.0

Entrenchment (ACW:FPW ratio): 1.6
 Habitat Units/100m (total channel length): 8.9
 Habitat Units/100m (primary channel length): 10.0

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):	168	32.4
Volume (m ³):	90	17.4
Key pieces (>=12m x 0.60m):	0	0.0

OREGON DEPARTMENT OF FISH AND WILDLIFE

FALL CR TRIB B PRE-TX (MS-163)

HABITAT INVENTORY

Report Date: 11/15/2013

Survey Date:

2/5/2002

REACH		T27S-R9W-S20NW						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-BACKWATER	1	2	1.3	0.15	3	0	44	50	6	0	0	0	
POOL-LATERAL SCOUR	9	96	4.4	0.81	417	0	11	22	28	23	10	8	
POOL-PLUNGE	7	50	4.4	0.74	226	0	8	23	27	16	20	5	
POOL-STRAIGHT SCOUR	2	29	3.1	0.70	99	0	10	20	17	20	18	14	
RAPID/BEDROCK	1	16	2.0	0.40	32	0	0	9	9	17	17	48	
RAPID/BOULDERS	1	9	5.3	0.40	47	0	6	0	31	38	25	0	
RIFFLE	22	364	4.2	0.28	1,583	0	6	20	31	25	12	7	
STEP/BEDROCK	1	4	10.7	0.15	43	0	5	5	0	0	0	90	
STEP/BOULDERS	3	10	1.9	0.18	22	0	4	15	16	19	46	0	
STEP/LOG	3	3	3.8	0.08	10	0	17	26	40	12	5	0	
STEP/STRUCTURE	2	2	2.7	0.11	7	0	5	23	21	10	42	0	
Total:	52	584	4.0	0.42	2,488	0	Avg: 8	20	27	21	15	8	

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	1	2	1.3	0.15	3	0.11%	0	0.0	
Scour Pools	18	174	4.2	0.77	742	29.84%	0	0.0	
Glides	0	0			0	0.00%	0	0.0	
Riffles	22	364	4.2	0.28	1,583	63.61%	0	0.0	
Rapids	2	25	3.7	0.40	79	3.16%	0	0.0	
Cascades	0	0			0	0.00%	0	0.0	
Step/Falls	9	19	3.7	0.13	82	3.28%	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:	19	32.5	36.6
Pools >=1m deep:	2	3.4	3.9
Complex pools (LWD pieces>=3):	12	20.6	23.1
Pool frequency (channel widths/pool):	4.1		
Residual pool depth (avg):	0.54		

Comment Summary

Oregon Plan Monitoring Sites 2002

MONITORING AREA: **3-MS** SITE ID: **163** **FALL CR TRIB B PRE-TX (MS-163)**

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTES
2	RI	00	47.9	HS	SPAWNING GRAVEL = 20 SQ M.
3	LP	00	54.5		POCKET ON RIGHT
4	SL	00	54.9		H = .15
5	RI	00	88.5		SITE #1
6	PP	00	106.7	HS	SG = 4 SQ M
7	SS	00	108.2	CS/CS	H = .4, COLLAPSED CULVERT
8	SP	00	126.8	BC, CS/CS	BOULDERS
9	RI	00	136.9	/SS, CS/CS	
10	LP	00	142.6	CS/	ROAD ALONGSIDE CREEK
11	RI	00	147.1		SG = 10 SQ M
12	PP	00	155.5		SG = 26 SQ M
13	SL	00	155.9		H = .3
14	LP	00	172		SG = 16 SQ M
15	LP	00	187.9		SG = 18 SQ M
16	RI	00	199.8		VWI NARROWS HERE
17	LP	00	205.8		SG = 29 SQ M
20	PP	00	257.7		INCLUDES 3 METER RIFFLE
21	SR	00	261.7		H = .95
22	RI	01	272.5	TJ/	
23	RI	11	272.5		ACW = 4.3
26	SS	11	272.5	CS/CS	

Comment Summary

Oregon Plan Monitoring Sites 2002

MONITORING AREA: 3-MS SITE ID: 163 FALL CR TRIB B PRE-TX (MS-163)

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTES
27	RI	00	296.7		H = .25, SG = 10 SQ M
28	RI	00	307.7		T = 5.5
29	LP	00	319.2		40% UNDERCUT
31	RR	00	361.8	DJ	
36	RI	01	415.1	WL	RED-TAILED HAWK, DIPPER
39	RI	02	425.3		STREAM CUTTING INTO /HS
43	SL	03	425.3		H = 1.2
51	PP	00	517.1	LS/	
52	SB	00	518.9		H = .5, TOTAL SITE SG = 166 M