

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

STREAM: Bummer Creek (MC9)
BASIN: Alsea River
SURVEY TYPE: Pre-Tx
DATE: March 11, 2002
SURVEY CREW: Russ Macal, Loren Stucker
REPORT PREPARED BY: Paul Jacobsen
BASIN AREA: 34.6 km²
USGS MAPS: Prairie Peak
ECOREGION: Coast Range Sedimentary

GENERAL DESCRIPTION:

The Bummer Creek habitat survey extended 477 meters. The channel was constrained by terraces in a broad valley floor. The average valley width index was 5.3 (range: 3.0-6.5). Land uses for the reach were young (3-15 cm dbh) and second growth (15-30 cm dbh) trees. The average unit gradient was 4.1 percent. Rapids (79%) dominated stream habitat. Gravel (48%) and cobble (28%) dominated stream substrate. Wood volume was low at 14.2 m³/100m.

COMMENTS:

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

REACH

T14S-R8W-S25SE

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	5.3	VWI Range:	3 - 6.5

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	477	3,177	0
Secondary	18	22	0

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 5	<u>First Terrace</u> n = 5
Width: 6.5	Width: 8.9	11.3 (8.7 - 15.5)	18.2 (9.3 - 34)
Depth: 0.56	Height: 0.7	1.3 (1.1 - 1.6)	2.0 (1.8 - 2.2)

W:D ratio: 14.4

Entrenchment (ACW:FPW ratio): 1.3

Stream Flow Type: HF

Habitat Units/100m (total channel length): 4.4

Average Unit Gradient: 4.1%

Habitat Units/100m (primary channel length): 4.6

Water temperature (°C): 7.5 - 7.5

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	YT	ST
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):	86	18.0
Volume (m ³):	68	14.2
Key pieces (>=12m x 0.60m):	2	0.4

OREGON DEPARTMENT OF FISH AND WILDLIFE

BUMMER CREEK PRE-TX (MC-9)

HABITAT INVENTORY

Report Date: 11/15/2013

Survey Date:

3/11/2002

REACH		T14S-R8W-S25SE					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	1	25	5.5	0.50	138	0	0	5	30	25	40	0
POOL-LATERAL SCOUR	4	41	6.0	1.05	255	0	1	10	59	19	5	5
POOL-PLUNGE	1	6	10.7	0.90	61	0	0	10	50	30	10	0
RAPID/BOULDERS	15	402	6.2	0.43	2,528	0	0	5	45	30	19	1
RIFFLE	1	21	10.5	0.35	217	0	0	5	65	25	5	0
Total:	22	495	6.5	0.56	3,199	0	Avg: 0	6	48	28	16	2

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	5	47	6.9	1.02	316	9.89%	0	0.0	
Glides	0	0			0	0.00%	0	0.0	
Riffles	1	21	10.5	0.35	217	6.79%	0	0.0	
Rapids	15	402	6.2	0.43	2,528	79.02%	0	0.0	
Cascades	1	25	5.5	0.50	138	4.30%	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			
	<u>Total</u>	Total of all Channel Lengths	
		<u># / Km</u>	Primary Channel Length <u># / Km</u>
All Pools:	5	10.1	10.5
Pools >=1m deep:	4	8.1	8.4
Complex pools (LWD pieces>=3):	3	6.1	6.3
Pool frequency (channel widths/pool):	11.1		
Residual pool depth (avg):	0.60		

Comment Summary

Oregon Plan Monitoring Sites 2002

MONITORING AREA: **2-MC** SITE ID: **9** **BUMMER CREEK PRE-TX (MC-9)**

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTES
1	RB	00	38		START AT BRIDGE
10	RB	00	191.3	BV	LEFT BANK EROSION
12	CB	00	234.3	/SS	
13	RB	00	259.3	WL	CRAYFISH REMAINS
22	RB	00	476.8	/SS	SIGN ON ALDER LEFT