

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

STREAM: Bewley Creek (N110)
BASIN: Tillamook River
SURVEY TYPE: Reference
DATE: February 14, 2002
SURVEY CREW: Sean Allen, Rachel Werner
REPORT PREPARED BY: Paul Jacobsen
BASIN AREA: 15.5 km²
USGS MAPS: Tillamook, Netarts
ECOREGION: Coast Range Sitka Spruce

GENERAL DESCRIPTION:

The Bewley Creek habitat survey extended 414 meters. The channel was constrained by terraces in a broad valley floor. The average valley width index was 4.9 (range: 3.5-8.0). Land use for the reach was second growth (15-30 cm dbh) trees. The average unit gradient was 0.3 percent. Scour pools (88%) and riffles (12%) dominated stream habitat. Gravel (49%) and bedrock (16%) dominated stream substrate. Wood volume was low at 2.2 m³/100m.

COMMENTS:

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

REACH

T2S-R10W-S23NE

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	4.9	VWI Range:	3.5 - 8

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	414	3,013	0
Secondary	6	8	0

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 5	<u>First Terrace</u> n = 5
Width: 6.6	Width: 8.7	17.4 (11.4 - 24.9)	19.2 (13 - 27)
Depth: 0.58	Height: 0.7	1.3 (1.2 - 1.4)	1.7 (1.3 - 2.1)

W:D ratio: 13.2
Stream Flow Type: MF
Average Unit Gradient: 0.3%
Water temperature (°C): 5.0 - 5.0

Entrenchment (ACW:FPW ratio): 2.0
Habitat Units/100m (total channel length): 4.8
Habitat Units/100m (primary channel length): 4.8

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	ST	
Riparian Vegetation:	D3	C3

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):	23	5.6
Volume (m ³):	9	2.2
Key pieces (>=12m x 0.60m):	0	0.0

OREGON DEPARTMENT OF FISH AND WILDLIFE

BEWLEY CR REFERENCE (N110)

HABITAT INVENTORY

Report Date: 11/15/2013

Survey Date:

2/14/2002

REACH		T2S-R10W-S23NE					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-LATERAL SCOUR	10	316	7.4	0.83	2,365	0	7	20	36	10	5	23	
POOL-PLUNGE	1	8	5.8	0.90	46	0	5	15	60	15	5	0	
POOL-STRAIGHT SCOUR	1	37	7.1	0.70	260	0	5	15	65	15	0	0	
RIFFLE	7	59	5.6	0.22	347	0	1	9	61	14	4	12	
STEP/LOG	1	0	6.3	0.10	1	0	0	5	65	20	10	0	
Total:	20	420	6.6	0.58	3,020	0	Avg: 4	15	49	12	5	16	

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	12	361	7.2	0.83	2,672	88.46%	0	0.0	
Glides	0	0			0	0.00%	0	0.0	
Riffles	7	59	5.6	0.22	347	11.50%	0	0.0	
Rapids	0	0			0	0.00%	0	0.0	
Cascades	0	0			0	0.00%	0	0.0	
Step/Falls	1	0	6.3	0.10	1	0.04%	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:	12	28.6	29.0
Pools >=1m deep:	3	7.1	7.2
Complex pools (LWD pieces>=3):	2	4.8	4.8
Pool frequency (channel widths/pool):	4.0		
Residual pool depth (avg):	0.66		

Comment Summary

Oregon Plan Monitoring Sites 2002

MONITORING AREA: 1-NC SITE ID: 110 BEWLEY CR REFERENCE (N110)

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTES
6	SL	00	65.8		H = .25
10	LP	00	201.1	SS/	