

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

STREAM: Salmonberry Creek (U-99)
BASIN: Smith River
SURVEY TYPE: Pre-Tx
DATE: February 5, 2001
SURVEY CREW: David Hering, Andrew Gross
REPORT PREPARED BY: Paul Jacobsen
BASIN AREA: 4.5 km²
USGS MAPS: Beaver Creek
ECOREGION: Coast Range Sedimentary

GENERAL DESCRIPTION:

The Salmonberry Creek habitat survey extended 492 meters. The channel was constrained by terraces in a broad valley floor. The average valley width index was 6.6 (range: 3.5 – 8.0). Land use for the reach was second growth (15-30 cm dbh) and young (3-15 cm dbh) trees. The average unit gradient was 0.5 percent. Riffles (50%) and scour pools (49%) dominated stream habitat. Gravel (50%) and sand (40%) dominated stream substrate. Wood volume was low at 6.1 m³/100m.

COMMENTS:

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

REACH SUMMARY

REACH 1

T20S-R6W-S30SW

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 avg: 6.6 range: 3.5-8.0

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	492	1,469	0
Secondary	16	23	0

Channel Dimensions (m)

<u>Wetted</u>		<u>Active</u>		<u>Floodprone</u>	<u>First Terrace</u>
Width	3.0	Width	5.4	10.3	9.2
Depth	0.41	Height	0.5	1.0	1.2
		W:D ratio	10.4	Entrenchment	1.9

Stream Flow Type: LF Water Temp: 7.0-7.0°C
 Avg. Unit Gradient: 0.5% Habitat Units/100m: 7.9

Riparian, Bank, and Wood Summary

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

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding	0%	Reach avg: 0%
Undercut Banks	0%	Range: 0- 0

Large Woody Debris

	<u>Total</u>	<u>Total/100m</u>
All pieces (≥3m x 0.15m)	54	11.0
Volume (m ³)	30	6.1
Key pieces (≥10m x 0.6m)	1	0.2

HABITAT UNIT SUMMARY

REACH 1 T20S-R6W-S30SW 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	Cbbl	Bldr	Bdrk
POOL-BACKWATER	2	6	2.2	0.58	14	0	30	50	20	0	0	0
POOL-LATERAL SCOUR	21	217	3.4	0.60	734	0	15	54	31	0	0	0
RIFFLE	17	285	2.6	0.15	745	0	2	22	76	0	0	0
Total:	40	508	3.0	0.41	1,492	0	Avg:10	40	50	0	0	0

HABITAT SUMMARY

Habitat Group	No. Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area (m ²)	Percent	Large Boulders Number	Boulders #/100m ²
Dammed & BW Pools	2	6	2.2	0.58	14	0.92	0	0.0
Scour Pools	21	217	3.4	0.60	734	49.16	0	0.0
Glides	0	0	-	-	0	0.00	0	0.0
Riffles	17	285	2.6	0.15	745	49.91	0	0.0
Rapids	0	0	-	-	0	0.00	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

POOL SUMMARY

	<u>Total</u>	<u>#/Km</u>
All Pools	23	45.3
Pools ≥1m deep:	1	2.0
Complex pools (LWD pieces ≥3):	5	9.8
Pool Frequency (channel widths/pool):	4.1	
Residual pool depth (avg)	0.47m	

STREAM SUMMARY

SALMONBERRY CREEK PRE-TX

Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Total Area (m ²)	Substrate Percent Wetted Area						Total Large Boulder
					S/O	Sand	Grvl	Cbbl	Bldr	Bdrk	
40	508	3.0	0.41	1,492	10	40	50	0	0	0	0

Habitat Group	Wetted Area	
	(m ²)	Percent
Scour Pool	734	49.2
Backwater Pools	14	0.9
Glide	0	0.0
Riffle	745	49.9
Rapid	0	0.0
Cascade	0	0.0
Step	0	0.0
Dry	0	0.0

