

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

STREAM: North Fork Coquille River (MS-322)
BASIN: Coquille River
SURVEY TYPE: Reference
DATE: February 27, 2006
SURVEY CREW: Scott Venables, Seth Ring
REPORT PREPARED BY: Paul Jacobsen
BASIN AREA: km³
USGS MAPS: Daniels Creek
ECOREGION: Coast Range Sedimentary

GENERAL DESCRIPTION:

The North Fork Coquille River habitat survey extended 331 meters. The channel was constrained by terraces in a broad valley floor. The average valley width index was 5.3 (range: 4.0-8.0). Land use for the reach was rural residential and second growth (15-30 cm dbh) trees. The average unit gradient was 0.4 percent. Scour pools (76%) and riffles (24%) comprised stream habitat. Gravel (28%) and cobble (28%) dominated stream substrate. Wood volume was very low at 1.1 m³/100m.

COMMENTS:

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

REACH 1

T26S-R11W-S28NW

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	5.3	VWI Range:	4 - 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 Channel	331	4,995	0
Secondary Channel	0	0	0
Off-Channel Units	0	0	0

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 4	<u>First Terrace</u> n = 4
Width: 15.3	Width: 20.5	26.5 (23.6 - 33.4)	29.2 (24 - 38.9)
Depth: 0.74	Height: 1.0	2.0 (1.5 - 2.4)	2.8 (2.5 - 2.9)

W:D ratio: 20.9

Entrenchment (ACW:FPW ratio): 1.3

Stream Flow Type: MF

Habitat Units/100m (total channel length): 2.1

Average Unit Gradient: 0.4%

Habitat Units/100m (primary channel length): 2.1

Water temperature (°C): 9.0 - 9.0

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	RR	ST
Riparian Vegetation:	D15	D30

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):	14	4.2
Volume (m ³):	4	1.1
Key pieces (>=12m x 0.60m):	0	0.0

HABITAT INVENTORY

Report Date: 12/6/2006

Survey Date:

2/27/2006

REACH 1		T26S-R11W-S28NW					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-LATERAL SCOUR	3	221	15.8	1.07	3,421	0	21	8	22	22	7	21
POOL-STRAIGHT SCOUR	1	39	10.2	0.90	399	0	20	0	0	0	10	70
RIFFLE	3	71	16.6	0.35	1,176	0	0	7	43	43	3	3
Total:	7	331	15.3	0.74	4,995	0	Avg: 12	6	28	28	6	21

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	4	260	14.4	1.03	3,819	76.47%	0	0.0	
Glides	0	0			0	0.00%	0	0.0	
Riffles	3	71	16.6	0.35	1,176	23.53%	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	
Culverts	0	0			0	0.00%	0	0.0	

POOL SUMMARY			
	Total	Total of all Channel Lengths # / Km	Primary Channel Length # / Km
All Pools:	4	12.1	12.1
Pools >=1m deep:	2	6.0	6.0
Complex pools (LWD pieces>=3):	2	6.0	6.0
Pool frequency (channel widths/pool):	4.0		
Residual pool depth (avg):	0.68		

Comment Summary

Restoration Monitoring Sites 2006

MONITORING AREA: 3-MS SITE ID: 322 NF COQUILLE RIVER REFERENCE

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
1	RI	00	25		T = 9.0 AT 4:00pm	
2	RI	00	46		STEELHEAD	
3	LP	00	112.5		FOUR REDDS	
5	SP	00	252.6	SS/		

