

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

STREAM: North Fork Coquille River (MS-323)
BASIN: Coquille River
SURVEY TYPE: Post-Tx
DATE: September 5, 2007
SURVEY CREW: Peter Cole, Lisa Biggs
REPORT PREPARED BY: Paul Jacobsen
BASIN AREA: 74.7 km²
USGS MAPS: Daniels Creek
ECOREGION: Coast Range Sedimentary

GENERAL DESCRIPTION:

The North Fork Coquille River habitat survey extended 818 meters. The channel was constrained by terraces in a broad valley floor. The average valley width index was 5.3 (range: 3.0-8.0). Land use for the reach was light grazing and rural residential. The average unit gradient was 0.3 percent. Scour pools (49%) and dammed pools (35%) dominated stream habitat. There was no dominant stream substrate. Wood volume was low at 11.7 m³/100m.

COMMENTS:

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

The crew noted several habitat structures during the survey.

OREGON DEPT OF FISH AND WILDLIFE NORTH FORK COQUILLE RIVER POST-TX (3-MS, 323)

HABITAT INVENTORY

Report Date: 11/14/2007

Survey Date: 7/7/2007

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	100%
Moderate V-shape	0%	Multiple Terraces	0%
Open V-shape	0%	Wide Floodplain	0%
Valley Width Index	5.3	VWI Range:	3 - 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	818	9,872	0
Secondary Channel	45	108	1
Off-Channel Units	21	29	0

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 5	<u>First Terrace</u> n = 5
Width: 9.5	Width: 24.7	31.0 (21.7 - 52.6)	33.9 (24.7 - 55.6)
Depth: 0.59	Height: 1.1	2.2 (2 - 2.4)	2.7 (2.1 - 3.2)

W:D ratio: 22.5
 Stream Flow Type: MF
 Average Unit Gradient: 0.3%
 Water temperature (°C): 16.0 - 16.0

Entrenchment (ACW:FPW ratio): 1.2
 Habitat Units/100m (total channel length): 2.6
 Habitat Units/100m (primary channel length): 2.8

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	LG	RR
Riparian Vegetation:	G	D30

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding:	14%	Reach avg: 54%
Undercut Banks:	10%	Range: 25 - 97

Large Wood Debris

	<u>Total</u>	<u>Total / 100m primary channel</u>
All pieces (>=3m x 0.15m):	92	11.2
Volume (m ³):	96	11.7
Key pieces (>=12m x 0.60m):	6	0.7

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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	15	0.4	0.02	6	7	0	10	20	40	30	0
GLIDE	2	50	11.5	0.28	575	3	5	13	46	26	5	5
POOL-BACKWATER	1	6	3.8	0.35	23	1	53	32	5	11	0	0
POOL-DAMMED	3	231	13.7	1.15	3,444	75	17	28	11	5	8	31
POOL-LATERAL SCOUR	6	440	11.4	1.15	4,933	89	19	15	12	11	6	36
PUDDLED UNIT	1	45	2.4	0.50	108	0	75	10	15	0	0	0
RIFFLE	2	51	12.0	0.23	609	7	2	7	23	53	7	7
RIFFLE W/ POCKETS	1	23	7.0	0.35	159	0	10	15	50	25	0	0
STEP/COBBLE	3	18	5.2	0.20	99	3	0	10	53	32	5	0
STEP/STRUCTURE	3	5	10.7	0.11	53	111	0	0	8	12	80	0
Total:	23	884	9.5	0.59	10,008	296	Avg: 14	14	23	19	16	15

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	4	237	11.2	0.95	3,467	34.64%	76	2.2	
Scour Pools	6	440	11.4	1.15	4,933	49.29%	89	1.8	
Glides	2	50	11.5	0.28	575	5.75%	3	0.5	
Riffles	3	74	10.3	0.27	768	7.67%	7	0.9	
Rapids	0	0			0	0.00%	0	0.0	
Cascades	1	15	0.4	0.02	6	0.06%	7	116.7	
Step/Falls	6	23	7.9	0.15	152	1.52%	114	75.0	
Dry	1	45	2.4	0.50	108	1.08%	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:	10	11.3	12.2
Pools >=1m deep:	6	6.8	7.3
Complex pools (LWD pieces>=3):	6	6.8	7.3
Pool frequency (channel widths/pool):	3.6		
Residual pool depth (avg):	1.00		

Survey Date 7/7/2007

RIPARIAN ZONE

Report Date: 11/7/2007

VEGETATION SUMMARY

REACH 1

Summary of Riparian Zone (0-30m) 3 transects

Total hardwoods/1000	1626
Total conifers/1000 ft	0
Total conifers >20" dbh/1000 ft	0
Total conifers >35" dbh/1000 ft	0

Average number of trees in a 5-meter wide band

Diameter class (cm)	Zone 1 0-10 meters		Zone 2 10 - 20 meters		Zone 3 20 - 30 meters		Zones 1-3 0-30 meters	
	Conifer	Hardwood	Conifer	Hardwood	Conifer	Hardwood	Conifer	Hardwood
3-15cm	0.0	2.7	0.0	9.7	0.0	7.0	0.0	19.3
15-30cm	0.0	3.0	0.0	2.3	0.0	0.3	0.0	5.7
30-50cm	0.0	1.7	0.0	0.0	0.0	0.0	0.0	1.7
50-90cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
>90cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total/100m2	0.0	7.3	0.0	12.0	0.0	7.3	0.0	8.9

Canopy closure and ground cover

	Zone 1 0-10 meters		Zone 2 10 - 20 meters		Zone 3 20 - 30 meters	
	(%)		(%)		(%)	
Canopy closure	67		31		26	
Shrub cover	24		18		18	
Grass/forb cover	44		73		79	

Predominant landform in each zone

	Zone 1 0-10 meters		Zone 2 10 - 20 meters		Zone 3 20 - 30 meters	
	(%)		(%)		(%)	
Hillslope	0		0		0	
High terrace	83		83		100	
Low terrace	17		17		0	
Floodplain	0		0		0	
Wetland/meadow	0		0		0	
Stream channel	0		0		0	
Roadbed/Railroad	0		0		0	
Riprap	0		0		0	
Surface slope (%)	0		0		1	

Summary of Riparian Zone (0-30m) for all reaches 3 transects

Summary of riparian zone (0-100 feet) extrapolated to 1,000 feet along stream

Total hardwoods/1000	1626
Total conifers/1000 ft	0
Total conifers >20" dbh/1000 ft	0
Total conifers >35" dbh/1000 ft	0

Average number of trees in a 5-m wide band

Diameter class (cm)	Zones 1-3	
	<u>0-30 meters</u>	
	<u>Conifer</u>	<u>Hardwood</u>
3-15cm	0.0	19.3
15-30cm	0.0	5.7
30-50cm	0.0	1.7
50-90cm	0.0	0.0
>90cm	0.0	0.0

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GCG: 3-MS SITE ID: 323

RIPARIAN ZONE VEGETATION

Reach 1

Reach 1

Unit	Side	Zone	Surface	Slope	Cover (percent)				Diameter class (cm)					Notes	
					Canopy	Shrub	Grass		3-15	15-30	30-50	50-90	>90		
6	LT	1	HT	0	100	5	65	Conifer							
								Hardwood	2	1	2				
6	LT	2	HT	0	75	0	75	Conifer							
								Hardwood	1						
6	LT	3	HT	5	60	5	85	Conifer							
								Hardwood	2						
6	RT	1	HT	0	75	20	20	Conifer							
								Hardwood		4					
6	RT	2	HT	0	0	0	100	Conifer							
								Hardwood	1	3					
6	RT	3	HT	0	10	0	100	Conifer							
								Hardwood	2						
10	LT	1	HT	0	100	5	25	Conifer							
								Hardwood	4	2	1				
10	LT	2	HT	0	0	0	100	Conifer							
								Hardwood							
10	LT	3	HT	0	0	0	100	Conifer							
								Hardwood							
10	RT	1	HT	0	100	30	45	Conifer							
								Hardwood	1	2	2				
10	RT	2	HT	0	80	25	55	Conifer							
								Hardwood	1	3					
10	RT	3	HT	0	30	10	85	Conifer							
								Hardwood	2						
15	LT	1	LT	0	0	80	15	Conifer							
								Hardwood	1						
15	LT	2	LT	0	5	75	15	Conifer							
								Hardwood	3						
15	LT	3	HT	0	30	35	65	Conifer							
								Hardwood	11						
15	RT	1	HT	0	25	5	95	Conifer							
								Hardwood							
15	RT	2	HT	0	25	10	90	Conifer							
								Hardwood	23	1					
15	RT	3	HT	0	25	55	40	Conifer							
								Hardwood	4	1					

COMMENT SUMMARY

MONITORING AREA: 3-MS SITE ID: 323 STREAM: NORTH FORK COQUILLE RIVER POST-TX

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTES
1	LP	00	26.4		PICTURE, TEMP @ 12:00=16°C
3	GL	00	77.3		SHOULD BE NO PTC
6	LP	01	215.9		RIP#1,HAB. SIGN RIGHT BANK MYRTLE #1793
10	SC	00	270.5		RIP#2
13	LP	01	431.6	DJ	
15	LP	01	581.6	DJ, BV	RIP#3,WE MISSED 375
16	PD	02	581.6		2NDARY CHANNEL GETS WET AT HIGH FLOWS ONLY, ACW=4.8,COHO IN PUDDL
17	SS	00	583.6	HS	BOULDER WEIR
18	DP	01	610	/TJ, DJ	FALLEN MYRTLE TREE(1.0DBH) LEFT BANK
20	SS	00	612	HS	BOULDER WEIR
22	SS	00	664.2	HS	BOULDER WEIR
23	DP	00	818.2	BC	PICTURE,N FK COQUILLE RD, POOL LENGTH IS 40M PAST END SIGN

