

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: July 17, 2006
SURVEY CREW: Lisa Biggs, Peter Cole
REPORT PREPARED BY: Paul Jacobsen
BASIN AREA: km²
USGS MAPS: Daniels Creek
ECOREGION: Coast Range Sedimentary

GENERAL DESCRIPTION:

The North Fork Coquille River habitat survey extended 549 meters. The channel was constrained by terraces in a broad valley floor. The average valley width index was 6.8 (range: 5.0-10.0). Land use for the reach was rural residential and second growth (15-30 cm dbh) trees. The average unit gradient was 0.5 percent. Scour pools (60%) dominated stream habitat. Gravel (33%) and cobble (20%) dominated stream substrate. Wood volume was very low at 4.0 m³/100m.

COMMENTS:

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

REACH 1 T26S-R11W-S29NW 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	6.8	VWI Range:	5 - 10

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	549	6,299	0
Secondary Channel	0	0	0
Off-Channel Units	122	500	1

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 4	<u>First Terrace</u> n = 4
Width: 8.8	Width: 15.5	16.8 (15.5 - 18)	18.8 (17 - 21)
Depth: 0.44	Height: 0.7	1.4 (1.3 - 1.4)	1.7 (1.5 - 2.1)

W:D ratio: 22.6 Entrenchment (ACW:FPW ratio): 1.1
Stream Flow Type: LF Habitat Units/100m (total channel length): 3.7
Average Unit Gradient: 0.5% Habitat Units/100m (primary channel length): 4.6
Water temperature (°C): 15.0 - 15.0

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:	1%	Reach avg: 70%
Undercut Banks:	8%	Range: 52 - 100

Large Wood Debris

	<u>Total</u>	<u>Total / 100m primary channel</u>
All pieces (>=3m x 0.15m):	40	7.3
Volume (m ³):	22	4.0
Key pieces (>=12m x 0.60m):	0	0.0

OREGON DEPT OF FISH AND WILDLIFE NORTH FORK COQUILLE REFERENCE (3-MS, 322)

HABITAT INVENTORY Report Date: 3/5/2007 Survey Date: 7/17/2006

REACH 1		T26S-R11W-S29NW					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
DRY UNIT	1	25	9.0	0.00	225	0	0	0	0	0	0	100
GLIDE	2	50	16.5	0.35	825	17	0	10	44	44	2	0
POOL-BACKWATER	5	74	2.7	0.43	203	4	39	22	32	4	0	3
POOL-ISOLATED	2	23	3.0	0.62	72	0	28	20	28	20	3	3
POOL-LATERAL SCOUR	5	358	10.6	0.96	4,081	26	13	17	21	11	3	35
RIFFLE	3	51	7.7	0.15	413	0	0	17	33	28	0	22
RIFFLE W/ POCKETS	3	67	11.1	0.40	742	67	2	5	26	29	38	0
STEP/COBBLE	4	23	12.1	0.10	238	30	0	6	59	33	1	0
Total:	25	671	8.8	0.44	6,799	144	Avg: 13	14	33	20	6	14

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	7	97	2.8	0.48	275	4.04%	4	1.5	
Scour Pools	5	358	10.6	0.96	4,081	60.03%	26	0.6	
Glides	2	50	16.5	0.35	825	12.13%	17	2.1	
Riffles	6	118	9.4	0.28	1,155	16.99%	67	5.8	
Rapids	0	0			0	0.00%	0	0.0	
Cascades	0	0			0	0.00%	0	0.0	
Step/Falls	4	23	12.1	0.10	238	3.50%	30	12.6	
Dry	1	25	9.0	0.00	225	3.31%	0	0.0	
Culverts	0	0			0	0.00%	0	0.0	

POOL SUMMARY			
	Total of all Channel Lengths		Primary Channel Length
	<u>Total</u>	<u># / Km</u>	<u># / Km</u>
All Pools:	12	17.9	21.9
Pools >=1m deep:	1	1.5	1.8
Complex pools (LWD pieces>=3):	6	8.9	10.9
Pool frequency (channel widths/pool):	3.6		
Residual pool depth (avg):	0.87		

Survey Date 7/17/2006

RIPARIAN ZONE

Report Date: 3/5/2007

VEGETATION SUMMARY

REACH 1

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

Total hardwoods/1000	1158
Total conifers/1000 ft	142
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		Zone 2		Zone 3		Zones 1-3	
	0-10 meters		10 - 20 meters		20 - 30 meters		0-30 meters	
	Conifer	Hardwood	Conifer	Hardwood	Conifer	Hardwood	Conifer	Hardwood
3-15cm	0.0	6.3	0.0	2.7	0.0	4.7	0.0	13.7
15-30cm	0.0	1.3	0.7	1.7	1.0	0.3	1.7	3.3
30-50cm	0.3	1.3	0.3	0.3	0.0	0.3	0.7	2.0
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	0.3	9.0	1.0	4.7	1.0	5.3	0.8	6.3

Canopy closure and ground cover

	Zone 1		Zone 2		Zone 3	
	0-10 meters		10 - 20 meters		20 - 30 meters	
	(%)		(%)		(%)	
Canopy closure	53		66		52	
Shrub cover	39		32		25	
Grass/forb cover	48		52		59	

Predominant landform in each zone

	Zone 1		Zone 2		Zone 3	
	0-10 meters		10 - 20 meters		20 - 30 meters	
	(%)		(%)		(%)	
Hillslope	50		50		50	
High terrace	33		50		50	
Low terrace	0		0		0	
Floodplain	0		0		0	
Wetland/meadow	0		0		0	
Stream channel	0		0		0	
Roadbed/Railroad	17		0		0	
Riprap	0		0		0	
Surface slope (%)	48		38		37	

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	1158
Total conifers/1000 ft	142
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	13.7
15-30cm	1.7	3.3
30-50cm	0.7	2.0
50-90cm	0.0	0.0
>90cm	0.0	0.0

RIPARIAN ZONE VEGETATION

Reach 1

Reach 1

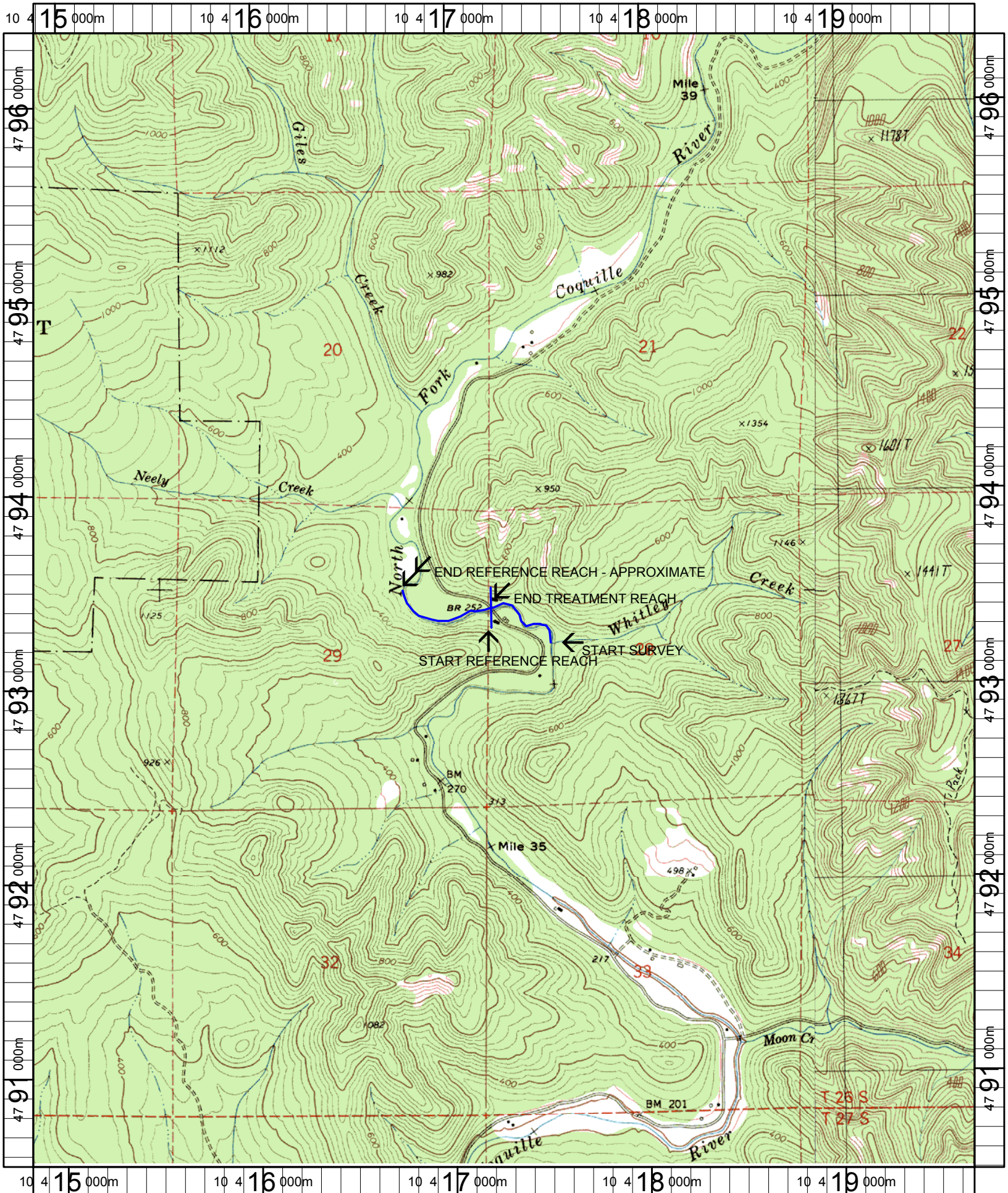
Unit	Side	Zone	Surface	Slope	Cover (percent)				Diameter class (cm)					Notes	
					Canopy	Shrub	Grass		3-15	15-30	30-50	50-90	>90		
9	LF	2	HS	120	40	70	15	Conifer		1					
								Hardwood	1	2					
9	LF	3	HS	110	30	95	5	Conifer		1					
								Hardwood	5	1					
9	RT	1	HT	0	5	5	100	Conifer							
								Hardwood							
9	RT	2	HT	0	90	10	90	Conifer							
								Hardwood							
9	RT	3	HT	0	75	0	100	Conifer							
								Hardwood	2						
9	LF	1	HS	120	35	80	10	Conifer				1		ESTIMATED DUE TO STEEPNESS	
								Hardwood	3						
12	RT	3	HT	0	30	5	90	Conifer							
								Hardwood	1						
12	RT	1	RB	80	80	20	30	Conifer						RB/HS	
								Hardwood	6		1				
12	LF	3	HS	90	90	10	40	Conifer		2					
								Hardwood	5		1				
12	LF	1	HS	70	90	45	40	Conifer							
								Hardwood	6						
12	LF	2	HS	90	90	5	80	Conifer		1	1				
								Hardwood	5	1					
12	RT	2	HT	-5	90	20	10	Conifer						HT/HS	
								Hardwood	2	1					
19	LF	1	HS	20	90	75	20	Conifer						SPRING SEEP IN LEFT RIPARIAN	
								Hardwood	3	2	2				
19	LF	2	HS	20	85	85	15	Conifer							
								Hardwood		1	1				
19	LF	3	HS	20	85	40	20	Conifer							
								Hardwood	1						
19	RT	2	HT	0	0	0	100	Conifer						NO TREES	
								Hardwood							
19	RT	1	HT	0	20	10	90	Conifer						ALDER	
								Hardwood	1	2	1				
19	RT	3	HT	0	0	0	100	Conifer						NO TREES	
								Hardwood							

Comment Summary

Restoration Monitoring Sites 2006

MONITORING AREA: **3-MS** SITE ID: **322** NORTH FORK COQUILLE REFEREN

<u>UNIT#</u>	<u>TYPE</u>	<u>CHAN</u>	<u>DIST. (m)</u>	<u>COMMENTS</u>	<u>NOTE ESTIMATOR</u>	<u>NOTE NUMERATOR</u>
1	RI	00	13.6		CT-CT	T=15.0C @9:50AM, DACE,
5	GL	00	95.3		HOMEMADE BOULDER WEIR	MANMADE SMALL BLDR
7	BW	10	120.3			MANY SALMONIDS
9	LP	01	249.6	TJ/	CA-CT,TJ/	COHO PRESENT, 4" & 12"
10	DU	11	249.6	AI	AVALANCHE MADE WIDE AC	DRY WATERFALL, AVALA
11	BW	10	249.6			DEAD SCULPIN
12	SC	00	258.6		CA-CT	ROAD ENDS HERE, DIRT
14	IP	10	281.6		MANMADE IP	LANDOWNER MADE-TRIC
17	LP	00	367.3	SS/,SS/,DJ		
18	SC	00	370.8		END SIGN (SAW ON WAY BA	END AT 371M
19	LP	01	495.5	WL	CA-CT	RACON, DEER
20	BW	10	495.5			12" CUTTHROAT
21	BW	10	495.5			3 RSN
24	LP	01	548.8		HUNG FLAGGING	



Name: DANIELS CREEK
 Date: 1/19/2006
 Scale: 1 inch equals 2000 feet

Location: 10 417273 E 4793439 N
 Caption: NF COQUILLE RESTORATION AND REFERENCE SITES - NF COQUILLE BASIN