

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

STREAM: 15B Creek (MS-211)
BASIN: North Fork Coquille River
SURVEY TYPE: Pre-Tx
DATE: July 1, 2003
SURVEY CREW: Lisa Biggs, Chelsey Girt
REPORT PREPARED BY: Paul Jacobsen
BASIN AREA: 0.8 km²
USGS MAPS: Coos Mtn.
ECOREGION: Coast Range Sedimentary

GENERAL DESCRIPTION:

The 15B Creek habitat survey extended 368 meters. The channel was constrained by terraces in a broad valley floor. The average valley width index was 20.0. Land use for the reach was young (3-15 cm dbh) and second growth (15-30 cm dbh) trees. The average unit gradient was 6.3 percent. Rapids (53%) and cascades (21%) dominated stream habitat. Gravel (34%) and cobble (28%) dominated stream substrate. Wood volume was very low at 3.5 m³/100m.

COMMENTS:

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

REACH 1

T26S-R11W-S15NE

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	20.0	VWI Range:	20 - 20

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	368	403	0
Secondary	44	36	0

Channel Dimensions (m)

<u>Wetted</u>		<u>Active</u>		<u>Floodprone</u>	<u>First Terrace</u>
Width	1.2	Width	2.8	4.6	6.7
Depth	0.16	Height	0.4	0.8	1.0
		W:D ratio	7.1	Entrenchment	1.7

Stream Flow Type: MF Water temp (C): 11.0 - 11.0
 Avg. Unit Gradient: 6.3% Habitat Units/100m: 8.3

Riparian, Bank, and Wood Summary

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

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding:	37%	Reach avg: 84%
Undercut Banks:	4%	Range: 6 - 100

Large Wood Debris

	<u>Total</u>	<u>Total / 100m</u>
All pieces (>=3m x 0.15m):	27	7.3
Volume (m ³):	13	3.5
Key pieces (>=10m x 0.60m):	0	0.0

OREGON DEPARTMENT OF FISH AND WILDLIFE

15B CREEK PRE-TX (MS-211)

HABITAT INVENTORY

Report Date: 12/17/03

Survey Date:

7/1/03

REACH 1		T26S-R11W-S15NE					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	
CASCADE/BEDROCK	1	7	1.5	0.05	11	0	0	0	9	18	0	73	
CASCADE/BOULDERS	5	73	1.1	0.08	80	76	6	11	27	34	21	1	
CULVERT CROSSING	1	12	0.6	0.05	7	0	0	10	80	10	0	0	
POOL-ALCOVE	2	36	1.2	0.20	35	1	66	14	18	0	2	0	
POOL-DAMMED	1	4	1.8	0.25	7	7	13	13	38	13	25	0	
POOL-LATERAL SCOUR	4	16	1.7	0.33	24	4	20	18	36	18	7	1	
POOL-PLUNGE	2	4	2.7	0.40	11	5	0	24	37	21	16	3	
POOL-STRAIGHT SCOUR	1	5	3.2	0.45	17	0	5	48	24	24	0	0	
RAPID/BOULDERS	11	241	1.0	0.13	233	17	0	13	43	38	5	0	
RIFFLE	1	9	1.3	0.10	11	5	0	11	21	53	5	11	
STEP/BOULDERS	3	5	0.8	0.05	2	12	2	4	14	17	63	0	
STEP/LOG	1	1	0.7	0.00	0	0	5	10	40	40	5	0	
STEP/STRUCTURE	1	0	0.5	0.00	0	0	0	0	50	50	0	0	
Total:	34	412	1.2	0.16	439	127	Avg	8	13	34	28	13	3

HABITAT SUMMARY									
Habitat Group	Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area		Large Boulders		44
					(m ²)	Percent	Number	(# / 100m ²)	
Dammed & BW Pools	3	40	1.4	0.22	42	9.47%	8	19.3	
Scour Pools	7	25	2.2	0.37	51	11.70%	9	17.5	
Glides	0	0			0	0.00%	0	0.0	
Riffles	1	9	1.3	0.10	11	2.61%	5	43.7	
Rapids	11	241	1.0	0.13	233	53.10%	17	7.3	
Cascades	6	81	1.1	0.08	91	20.80%	76	83.3	
Step/Falls	5	5	0.7	0.03	3	0.66%	12	415.2	
Dry	0	0			0	0.00%	0	0.0	
Culverts	1	12	0.6	0.05	7	1.67%	0	0.0	

POOL SUMMARY		
	Total	# / Km
All Pools:	10	24.3
Pools >=1m deep:	0	0.0
Complex pools (LWD pieces>=3):	0	0.0
Pool frequency (channel widths/pool):	14.9	
Residual pool depth (avg):	0.32	

STREAM SUMMARY

15B CREEK PRE-TX (MS-211)

Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Total Area (m ²)	Substrate						Large Boulders (#>0.5m)
					Percent Wetted Area						
					S/O	Snd	Grvl	Cbl	Bldr	Bdrk	
34	412	1.2	0.16	439	8	13	34	28	13	3	127

Habitat Group	Wetted Area	
	(m ²)	Percent
Dammed & BW Pools	42	9.47%
Scour Pools	51	11.70%
Glides	0	0.00%
Riffles	11	2.61%
Rapids	233	53.10%
Cascades	91	20.80%
Step/Falls	3	0.66%
Dry	0	0.00%
Culverts	7	1.67%

RIPARIAN ZONE VEGETATION SUMMARY

REACH 1 **REACH 1**

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

Total hardwoods/1000	2296
Total conifers/1000 ft	833
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	1.0	7.3	5.7	8.0	4.7	13.7	11.3	29.0
15-30cm	0.0	4.7	0.3	1.7	2.0	1.3	2.3	7.7
30-50cm	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.3
50-90cm	0.0	0.3	0.0	0.3	0.0	0.0	0.0	0.7
>90cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total/100m2	1.0	12.3	6.0	10.3	6.7	15.0	4.6	12.6

Canopy closure and ground cover

	Zone 1 0-10 meters (%)	Zone 2 10 - 20 meters (%)	Zone 3 20 - 30 meters (%)
Canopy closure	83	68	80
Shrub cover	43	40	43
Grass/forb cover	38	33	32

Predominant landform in each zone

	Zone 1 0-10 meters (%)	Zone 2 10 - 20 meters (%)	Zone 3 20 - 30 meters (%)
Hillslope	33	33	50
High terrace	67	50	50
Low terrace	0	0	0
Floodplain	0	0	0
Wetland/meadow	0	0	0
Stream channel	0	0	0
Roadbed/Railroad	0	17	0
Riprap	0	0	0
Surface slope (%)	8	16	23

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	2296
Total conifers/1000 ft	833
Total conifers >20" dbh/1000 ft	0
Total conifers >35" dbh/1000 ft	0

Average number of trees in a 5-m wide band

<u>Diameter class (cm)</u>	Zones 1-3	
	<u>0-30 meters</u>	
	<u>Conifer</u>	<u>Hardwood</u>
3-15cm	11.3	29.0
15-30cm	2.3	7.7
30-50cm	0.0	0.3
50-90cm	0.0	0.7
>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		
10	RT	3	HT	0	90	30	50	Conifer	3						
								Hardwood	22	2					
10	RT	2	HT	0	90	50	40	Conifer						ALDER, LG MYRTLE	
								Hardwood	6		1	1			
10	RT	1	HT	0	90	50	40	Conifer						MYRTLE LG ALDER	
								Hardwood	5	2		1			
10	LF	2	HT	0	80	80	5	Conifer	1					ALDERS	
								Hardwood	7	2					
10	LF	1	HT	2	75	40	30	Conifer							
								Hardwood	4						
10	LF	3	HT	0	80	80	20	Conifer	2					ROAD BED 3 M	
								Hardwood	2						
21	RT	2	HS	20	90	50	40	Conifer						ALDER	
								Hardwood	9	3					
21	RT	3	HS	20	85	50	50	Conifer						HAZELNUT	
								Hardwood	13						
21	LF	1	HT	0	90	30	50	Conifer	3					DOUG FIR, ALDER	
								Hardwood	2	1					
21	LF	2	HT	0	90	10	40	Conifer	12	1				DOUG FIR, BIG LEAF	
								Hardwood	1					MAPI F	
21	LF	3	HT	0	95	0	20	Conifer	7	5				DOUG FIR	
								Hardwood							
21	RT	1	HT	5	90	40	50	Conifer						ALDER	
								Hardwood	2	3					
34	RT	3	HS	40	90	70	10	Conifer	1	1				DOUG FIR, BLM, VINE	
								Hardwood	4					MAPI F	
34	RT	2	RB	5	20	30	20	Conifer							
								Hardwood							
34	RT	1	HS	20	75	60	20	Conifer							
								Hardwood	1	2					
34	LF	3	HS	80	40	30	40	Conifer	1						
								Hardwood		2					
34	LF	2	HS	70	40	20	50	Conifer	4					DOUG FIR, OCEAN	
								Hardwood	1					SPRAY	
34	LF	1	HS	20	80	40	40	Conifer						MYRTLE, VINE MAPLE,	
								Hardwood	8	6				RI M	

Comment Summary

Oregon Plan Monitoring Sites 2003

MONITORING AREA: **3-MS** SITE ID: **211** **15B CREEK PRE-TX (MS-211)**

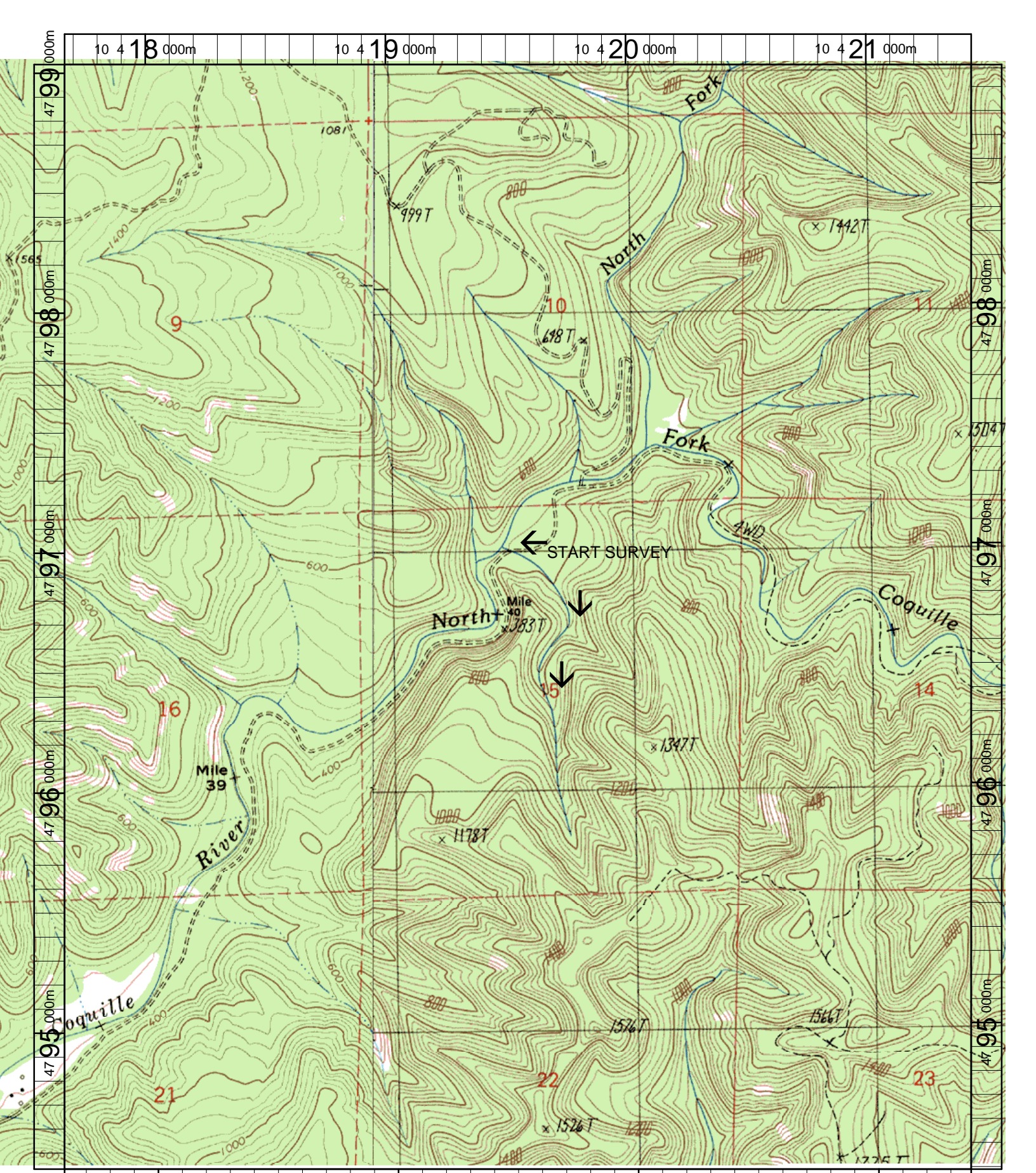
<u>UNIT#</u>	<u>TYPE</u>	<u>CHAN</u>	<u>DIST. (m)</u>	<u>COMMENTS</u>	<u>NOTE ESTIMATOR</u>	<u>NOTE NUMERATOR</u>
2	RI	00	16.1	BC, RR, WL	BC	ROUGH SKINNED NEWT
3	RB	01	36.9	WL		TROUT FRY
4	AL	10	36.9	WL		PGS
5	RB	01	61.9		1 SIDE CHANNEL	
6	AL	10	61.9	WL		DEER
9	LP	00	105.2	WL		TROUT FRY
11	RB	00	153.5	HS		SEE WOOD SHEET
12	SS	00	153.7		SS= MANMADE LONG H=.	
13	SP	00	159			COHO FRY
14	CC	00	171.2	CC	H 1.25X 1.15W OF C	NO SS, CULVERT BELOW W
15	RB	00	196.2		OLD ROAD ON RIGHT	
16	RB	00	221.2	DJ		
19	RB	00	256.5			COHO & TROUT FRY
20	SL	00	257		H=.3	
21	RB	00	281.4	WL		PGS
25	LP	00	307.5			PGS, TROUT FRY
28	SB	01	320.9		H=1.2	
30	DP	00	324.7			SALMONIDS
31	SB	00	325.1		H=1.3	
34	CB	00	368.1	SS/ WL		SALMONIDS
35	CB	00	381.5		8.5M UP UN. IS SPAWN S	

Comment Summary

Oregon Plan Monitoring Sites 2003

MONITORING AREA: **3-MS** SITE ID: **211** **15B CREEK PRE-TX (MS-211)**

<u>UNIT#</u>	<u>TYPE</u>	<u>CHAN</u>	<u>DIST. (m)</u>	<u>COMMENTS</u>	<u>NOTE ESTIMATOR</u>	<u>NOTE NUMERATOR</u>
36	SL	00	382.5	WL	H=1.45	SALMONIDS IN POOL W/ IN S
37	PD	00	389.5		UNDERGROUND H2O	
38	RB	00	419.3		ROAD FAILURE?	SALMONIDS
40	SL	00	422.1		H=.65	
41	PD	00	439.1	SS/WL	/SS X 2	SALMONIDS
42	SL	00	439.3		H=1.05	DRY UNIT
43	DU	00	467.3			DRY UNIT
44	CB	00	482.3			SALMONIDS
47	SL	00	490		H=1.1	



Name: COOS MT
 Date: 6/11/2003
 Scale: 1 inch equals 1666 feet

Location: 10 419520 E 4796716 N
 Caption: 15B CREEK RESTORATION SITE - NORTH FORK
 COQUILLE BASIN