

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

STREAM: Rogue River Tributary C (S-240)
BASIN: Rogue River
SURVEY TYPE: Pre-Tx
DATE: July 19, 2004
SURVEY CREW: Greg Ryder, Justin Gerding
REPORT PREPARED BY: Paul Jacobsen
BASIN AREA: 0.5 km²
USGS MAPS: Signal Buttes
ECOREGION: Coast Range Sitka Spruce

GENERAL DESCRIPTION:

The Rogue River Tributary C habitat survey extended 483 meters. The channel was alternately constrained by hillslopes and terraces in a broad valley floor. The average valley width index was 10.7 (range: 1.5-20.0). Land use for the reach was young (3-15 cm dbh) and second growth (15-30 cm dbh) trees. The average unit gradient was 6.2 percent. Dry channel (45%) dominated stream habitat. Cobble (34%) and gravel (29%) dominated stream substrate. Wood volume was low at 5.8 m³/100m.

COMMENTS:

There was one potential barrier to upstream fish migration in the surveyed length. This was a 1.2 m high step and culvert at units seven and eight (128 m).

REACH 1

T36S-R14W-S11SW

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	10.7	VWI Range:	1.5 - 20

Channel Morphology (Percent Reach Length)

<u>Constrained</u>		<u>Unconstrained</u>	
Hillslope	0%	Single Channel	0%
Bedrock	0%	Multiple Channel	0%
Terrace	0%	Braided Channel	0%
Alt. Terrace/Hill	100%		
Landuse	0%		

Channel Characteristics

<u>Type</u>	<u>Length (m)</u>	<u>Area (m2)</u>	<u>Dry Units</u>
Primary	483	963	6
Secondary	12	22	1

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 5	<u>First Terrace</u> n = 4
Width: 2.0	Width: 4.3	6.1 (5.3 - 6.8)	8.8 (6.6 - 10.7)
Depth: 0.08	Height: 0.4	0.8 (0.7 - 0.8)	1.9 (1.4 - 2.8)

W:D ratio: 10.9

Stream Flow Type: LF

Average Unit Gradient: 6.2%

Water temperature (°C): 14.0 - 14.0

Entrenchment (ACW:FPW ratio): 1.4

Habitat Units/100m (total channel length): 5.9

Habitat Units/100m (primary channel length): 6.0

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	YT	ST
Riparian Vegetation:	M15	S

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding:	2%	Reach avg: 83%
Undercut Banks:	1%	Range: 33 - 100

Large Wood Debris

	<u>Total</u>	<u>Total / 100m primary channel</u>
All pieces (>=3m x 0.15m):	25	5.2
Volume (m ³):	28	5.8
Key pieces (>=12m x 0.60m):	0	0.0

OREGON DEPARTMENT OF FISH AND WILDLIFE

ROGUE RIVER TRIB C PRE-TX (S-240)

HABITAT INVENTORY

Report Date: 10/27/2004

Survey Date:

7/19/2004

REACH 1		T36S-R14W-S11SW					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/BOULDERS	4	100	1.4	0.10	140	46	0	8	21	26	46	0	0
CULVERT CROSSING	1	25	3.2	0.00	79	0	0	20	40	40	0	0	0
DRY CHANNEL	7	150	2.8	0.00	448	1	0	11	44	36	9	0	0
POOL-LATERAL SCOUR	3	13	1.3	0.27	16	0	0	38	23	32	7	0	0
POOL-PLUNGE	2	7	3.2	0.43	27	3	0	45	25	15	15	0	0
RAPID/BOULDERS	6	124	1.5	0.05	183	35	0	11	23	35	31	0	0
RIFFLE	4	76	1.2	0.02	92	3	0	10	26	48	16	0	0
STEP/BOULDERS	1	1	0.9	0.02	1	2	0	10	15	15	60	0	0
STEP/STRUCTURE	1	0	3.0	0.00	0	0	0	20	40	40	0	0	0
Total:	29	495	2.0	0.08	985	90	Avg: 0	16	29	34	21	0	0

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	5	20	2.1	0.33	43	4.34%	3	7.0	
Glides	0	0			0	0.00%	0	0.0	
Riffles	4	76	1.2	0.02	92	9.35%	3	3.3	
Rapids	6	124	1.5	0.05	183	18.58%	35	19.1	
Cascades	4	100	1.4	0.10	140	14.21%	46	32.9	
Step/Falls	2	1	2.0	0.01	1	0.09%	2	215.1	
Dry	7	150	2.8	0.00	448	45.43%	1	0.2	
Culverts	1	25	3.2	0.00	79	7.99%	0	0.0	

POOL SUMMARY			
	Total	Total of all Channel Lengths # / Km	Primary Channel Length # / Km
All Pools:	5	10.1	10.4
Pools >=1m deep:	0	0.0	0.0
Complex pools (LWD pieces>=3):	0	0.0	0.0
Pool frequency (channel widths/pool):	23.2		
Residual pool depth (avg):	0.31		

RIPARIAN ZONE VEGETATION SUMMARY

REACH 1 **REACH 1**

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

Total hardwoods/1000	2032
Total conifers/1000 ft	671
Total conifers >20" dbh/1000 ft	102
Total conifers >35" dbh/1000 ft	41

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	1.3	3.3	2.0	15.3	4.0	6.3	7.3	25.0
15-30cm	0.3	3.3	0.7	4.0	0.3	1.0	1.3	8.3
30-50cm	0.3	0.0	0.3	0.0	0.0	0.0	0.7	0.0
50-90cm	0.3	0.0	0.3	0.0	0.3	0.0	1.0	0.0
>90cm	0.3	0.0	0.0	0.0	0.3	0.0	0.7	0.0
Total/100m2	2.7	6.7	3.3	19.3	5.0	7.3	3.7	11.1

Canopy closure and ground cover

	Zone 1		Zone 2		Zone 3	
	0-10 meters		10 - 20 meters		20 - 30 meters	
	(%)		(%)		(%)	
Canopy closure	73		77		77	
Shrub cover	60		50		38	
Grass/forb cover	13		13		17	

Predominant landform in each zone

	Zone 1		Zone 2		Zone 3	
	0-10 meters		10 - 20 meters		20 - 30 meters	
	(%)		(%)		(%)	
Hillslope	33		33		33	
High terrace	67		67		67	
Low terrace	0		0		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 (%)	18		15		8	

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		
5	RT	2	HT	0	100	0	40	Conifer							
								Hardwood	9	10					
5	RT	1	HT	0	90	20	40	Conifer							
								Hardwood		1					
5	LF	3	HT	0	100	0	0	Conifer					1	1	D FIR, MYRTLE
								Hardwood	1	1					
5	LF	2	HT	0	90	20	20	Conifer				1	1		
								Hardwood	3	1					
5	LF	1	HT	0	100	20	0	Conifer				1	1	1	
								Hardwood	2	1					
5	RT	3	HT	0	90	20	20	Conifer							
								Hardwood		2					
15	RT	1	HT	0	50	100	0	Conifer	1						
								Hardwood	2						
15	LF	2	HS	20	40	80	20	Conifer	5						REPROD UNIT
								Hardwood	0						
15	RT	2	HT	0	50	100	0	Conifer	1						
								Hardwood		1					
15	LF	1	HS	20	40	100	0	Conifer	1						D FIR
								Hardwood	4						
15	LF	3	HS	10	100	60	0	Conifer	4						
								Hardwood	4						
15	RT	3	HT	0	60	100	0	Conifer	5						
								Hardwood	0						
25	LF	1	HS	90	60	100	0	Conifer	2						
								Hardwood		1					
25	LF	2	HS	70	100	40	0	Conifer		1					
								Hardwood	14						
25	LF	3	HS	40	90	40	40	Conifer	2	1					
								Hardwood	14						
25	RT	1	HT	0	100	20	40	Conifer		1					
								Hardwood	2	7					
25	RT	2	HT	0	80	60	0	Conifer		1					MYRTLE
								Hardwood	20						
25	RT	3	HT	0	20	6	40	Conifer	1						
								Hardwood	0						

Comment Summary

Oregon Plan Monitoring Sites 2002

MONITORING AREA: 5-SC SITE ID: 240 ROGUE RIVER TRIB C PRE-TX (S-240)

<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	DC	00	25		FLOOD PLAIN=ROGUE RI	PHOTO 0025 AT 9:45
5	DC	00	123.3			TEMP=14 DEG C AT 11:00
6	PP	00	128.3		T=14 DEG C AT 11:00	PTC IS DRY, POOL HAS TRO
7	SS	00	128.4	PA		HT=1.2 DRY STEP
8	CC	00	153	CC		CULVERT W=4.2, H=2.1
9	DC	00	168.2			JERRY'S FRONT ROAD
12	LP	00	205.2			DEAD INV. STEELHEAD
14	LP	01	232.7			CUTTRHOAT
18	RB	00	282.6	WL		PGS
19	RB	00	307.6			TROUT FRY
20	RB	00	332.6			TROUT FRY
23	SB	00	347.6		H=.5	
24	RB	00	372.6			TROUT
25	CB	00	397.6	WL		GARTER SNAKE
27	CB	00	447.6			TROUT CUTTHROAT
28	CB	00	472.6			TROUT
29	RB	00	482.9	/TJ	T=14 DEG C AT 15:00	PHOTO 0026 14:50



Name: SIGNAL BUTTES
 Date: 6/14/2004
 Scale: 1 inch equals 2000 feet

Location: 10 390484 E 4702558 N
 Caption: ROGUE RIVER TRIB C RESTORATION SITE - ROGUE BASIN