

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

STREAM: Ranch Creek (S165)
BASIN: Rogue River
SURVEY TYPE: Post-Tx
DATE: March 12, 2002
SURVEY CREW: Sara Meguffy, Sarah Schuster
REPORT PREPARED BY: Paul Jacobsen
BASIN AREA: 5.1 km²
USGS MAPS: Gold Beach
ECOREGION: Coast Range Sitka Spruce

GENERAL DESCRIPTION:

The Ranch Creek habitat survey extended 518 meters. The channel was alternately constrained by hillslopes and terraces in a broad valley floor. The average valley width index was 13.6 (range: 8 - 20). Land use for the reach was light grazing. The average unit gradient was 1.7 percent. Riffles (75%) and scour pools (17%) dominated stream habitat. Gravel (32%), silt/organics (31%) and sand (28%) dominated stream substrate. Wood volume was low at 2.1 m³/100m.

COMMENTS:

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

The crew noted several debris jams as well as evidence of beaver activity during the survey.

REACH

T36S-R14W-S20SW

REACH

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	13.6	VWI Range:	8 - 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	518	1,374	0
Secondary	29	56	0

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 5	<u>First Terrace</u> n = 4
Width: 2.5	Width: 4.4	13.5 (4.6 - 43)	9.1 (7.2 - 13.5)
Depth: 0.46	Height: 0.8	1.7 (1.5 - 1.9)	2.4 (2.3 - 2.5)

W:D ratio: 5.5
Stream Flow Type: MF
Average Unit Gradient: 1.7%
Water temperature (°C): 10.0 - 10.0

Entrenchment (ACW:FPW ratio): 2.7
Habitat Units/100m (total channel length): 7.3
Habitat Units/100m (primary channel length): 7.7

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	LG	
Riparian Vegetation:	D15	G

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):	41	7.9
Volume (m ³):	11	2.1
Key pieces (>=12m x 0.60m):	0	0.0

OREGON DEPARTMENT OF FISH AND WILDLIFE

RANCH CREEK POST-TX (S-165)

HABITAT INVENTORY

Report Date: 11/15/2013

Survey Date:

3/12/2002

REACH	T36S-R14W-S20SW							REACH					
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	
CULVERT CROSSING	1	6	2.0	0.20	12	0	5	15	45	20	15	0	
POOL-BACKWATER	1	11	4.1	0.20	47	0	65	20	10	5	0	0	
POOL-DAMMED	1	5	2.3	0.95	12	0	35	25	30	10	0	0	
POOL-LATERAL SCOUR	5	57	2.6	0.95	149	0	36	29	26	8	1	0	
POOL-PLUNGE	2	14	3.0	1.00	44	0	28	35	28	8	3	0	
POOL-STRAIGHT SCOUR	1	10	4.8	1.20	46	0	28	28	39	6	0	0	
RAPID/BOULDERS	3	24	1.3	0.19	47	0	35	27	33	5	0	0	
RIFFLE	20	416	2.6	0.38	1,067	0	27	29	34	9	1	0	
STEP/BOULDERS	4	3	1.9	0.12	4	0	42	21	28	6	3	0	
STEP/LOG	2	2	2.3	0.23	3	0	25	30	35	10	0	0	
Total:	40	547	2.5	0.46	1,430	0	Avg: 31	28	32	9	1	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	2	17	3.2	0.58	58	4.09%	0	0.0	
Scour Pools	8	80	3.0	0.99	238	16.67%	0	0.0	
Glides	0	0			0	0.00%	0	0.0	
Riffles	20	416	2.6	0.38	1,067	74.58%	0	0.0	
Rapids	3	24	1.3	0.19	47	3.29%	0	0.0	
Cascades	0	0			0	0.00%	0	0.0	
Step/Falls	6	4	2.0	0.15	8	0.53%	0	0.0	
Dry	0	0			0	0.00%	0	0.0	
Culverts	1	6	2.0	0.20	12	0.84%	0	0.0	

POOL SUMMARY			
	Total	Total of all Channel Lengths # / Km	Primary Channel Length # / Km
All Pools:	10	18.3	19.3
Pools >=1m deep:	3	5.5	5.8
Complex pools (LWD pieces>=3):	1	1.8	1.9
Pool frequency (channel widths/pool):	12.4		
Residual pool depth (avg):	0.74		

Comment Summary

Oregon Plan Monitoring Sites 2002

MONITORING AREA: **5-SC** SITE ID: **165** RANCH CREEK POST-TX (S-165)

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTES
4	RI	01	57.7	/TJ	SG = 2 SQ M
5	RB	11	57.7		RIPARIAN FENCED W/ ELECTRIC
6	RI	01	82.7	/TJ, DJ	
7	SB	11	82.7		H = 1.2
11	SB	00	158.2		H = .3, STINGING NETTLES
15	SB	00	233.7	BV	H = .85
16	RI	00	260.7	CS/CS	SG = 2 SQ M
17	CC	00	266.7	BC, CS/CS	FC/FC
19	SB	00	277.1		H = .5, STEP OVER DIRT
20	SP	00	286.6	DJ	
21	RB	00	300.7	BV	
22	SL	00	301.7	DJ	H = .5
25	PP	00	320.5		LOTS OF DOWNED WILLOW
26	SL	00	321		H = .5
28	RI	02	346		VWI DECREASING
29	LP	00	353	WL	ELK TRACKS & SCAT
30	RI	01	376.6		PASTURE
33	RI	00	417.1	DJ	
36	LP	00	452.1	WL	FROGS CROAKING
38	RI	01	502.1	DJ, /TJ	
40	RI	00	518.3		END SIGN/