

**ODFW AQUATIC INVENTORY PROJECT
RESTORATION MONITORING
STREAM HABITAT REPORT**

STREAM: STOUTS CREEK
 GCG: 4-UMP
 SITE ID: 185
 BASIN: S. UMPQUA
 TREATMENT DATE: 2003
 SURVEY DATE: 4/27/2009
 SURVEY CREW: Ryan Jacobsen / Miles Johnson
 USGS MAPS: MILO
 ECOREGION: Inland Siskiyou
 REPORT PREPARED BY: Matt Strickland / Sharon Tippery / Charles Stein

REACH: 1 LOCATION: T31S-R03W-S04NE

SURVEY DESCRIPTION:

Channel morphology: Constrained alternately by high terraces and hillslopes
 Dominant landuse(s): Second growth timber (15-30 cm dbh)
 Dominant riparian vegetation: Mixed conifer/deciduous: size class 30-50cm dbh
 Primary channel length (meters) and area (m²): 622 : 2,665
 Secondary channel length (meters) and area (m²) 0 : 0
 VWI average: 7.0 VWI Range: 7 - 7 Average Gradient: 1.5%
 Pieces LWD per 100m: 11.7 Wood Volume (m³) per 100m: 23.3
 Percent pools: 46% Complex pools (LWD pieces>=3): 7 Pools >=1m deep:2
 Percent substrate (avg):

	<u>Silt / organics</u>	<u>Sand</u>	<u>Gravel</u>	<u>Cobble</u>	<u>Boulder</u>	<u>Bedrock</u>
All units	1	17	36	29	17	0
Pool units	2	19	35	29	14	0
Fast water units	0	16	38	28	18	0

SURVEY COMMENTS:

The Stouts Creek habitat survey is a post-treatment, long term monitoring site. The crew noted habitat structures throughout. They also noted observing rough skinned newts and winter steelhead redds near the end of the survey. There were no potential barriers to upstream fish migration observed within the survey reach. A previous post-treatment habitat survey was conducted during the winter of 2004. Comparisons were made among key coho salmon habitat attributes: total secondary channel length, pieces of LWD per 100 m, wood volume per 100 m, percent pools, and complex pools. All key attributes decreased slightly except percent pools and complex pools, which stayed approximately the same.

Survey Date: 4/27/2009

Report Date: 2/16/2010

T31S-R03W-S04NE

REACH 1

Valley and Channel Summary

Valley Characteristics (Percent Reach Length)

Narrow Valley Floor		Broad Valley Floor	
Steep V-shape	0%	Constraining Terraces	100%
Moderate V-shape	0%	Multiple Terraces	0%
Open V-shape	0%	Wide Floodplain	0%
Valley Width Index	7.0	VWI Range:	7 - 7

Channel Morphology (Percent Reach Length)

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

Channel Characteristics

Type	Length (m)	Area (m ²)	Dry Units
Primary	622	2,665	0
Secondary	0	0	0

Channel Dimensions (m)

Wetted	Active	Floodprone <i>n</i> = 5	First Terrace <i>n</i> = 5
Width: 4.3	Width: 6.1	8.4 (6 - 10)	11.4 (9 - 15)
Depth: 0.41	Height: 0.5	0.9 (0.8 - 1)	1.3 (1.1 - 1.5)

W:D ratio: 13.3

Stream Flow Type: MF

Average Unit Gradient: 1.5%

Water temperature (°C): 8.0 - 8.0

Entrenchment (ACW:FPW ratio): 1.4

Habitat Units/100m (total channel length): 6.1

Habitat Units/100m (primary channel length): 6.1

Riparian, Bank, and Wood Summary

	Primary	Secondary
Land Use:	ST	LT
Riparian Vegetation:	M30	S

Bank Condition and Shade

Bank Status	Percent Reach Length	Shade (% of 180)
Actively Eroding:		Reach avg:
Undercut Banks:		Range: -

Large Wood Debris

	Total	Total / 100m primary channel
All pieces (>=3m x 0.15m):	73	11.7
Volume (m ³):	145	23.3
Key pieces (>=12m x 0.60m):	3	0.5

OREGON DEPT OF FISH AND WILDLIFE
HABITAT INVENTORY

STOUTS CREEK
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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
POOL-LATERAL SCOUR	18	272	4.5	0.66	1,239	0	2	19	35	29	14	0
RAPID/BOULDERS	7	120	4.3	0.19	541	0	0	12	31	30	27	0
RIFFLE	11	223	3.9	0.19	859	0	0	19	43	26	12	0
STEP/BOULDERS	1	2	4.0	0.15	8	0	0	10	30	30	30	0
STEP/COBBLE	1	5	3.6	0.30	18	0	0	10	20	50	20	0
Total:	38	622	4.3	0.41	2,665	0	Avg: 1	17	36	29	17	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	18	272	4.5	0.66	1,239	46.50%	0	0.0
Glides	0	0			0	0.00%	0	0.0
Riffles	11	223	3.9	0.19	859	32.22%	0	0.0
Rapids	7	120	4.3	0.19	541	20.31%	0	0.0
Cascades	0	0			0	0.00%	0	0.0
Step/Falls	2	7	3.8	0.23	26	0.98%	0	0.0
Dry	0	0			0	0.00%	0	0.0
Culverts	0	0			0	0.00%	0	0.0

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POOL SUMMARY

	<u>Total</u>	Total of all Channel Lengths <u># / Km</u>	Primary Channel Length <u># / Km</u>
All Pools:	18	28.9	28.9
Pools >=1m deep:	2	3.2	3.2
Complex pools (LWD pieces>=3):	7	11.3	11.3
Pool frequency (channel widths/pool):	5.7		
Residual pool depth (avg):	0.41		

OREGON DEPT OF FISH AND WILDLIFE
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OREGON PLAN MONITORING SITE
SURVEY DATE: 4/27/2009

COMMENT SUMMARY

MONITORING AREA: 4-UMP SITE ID: 185 STREAM: STOUTS CREEK

REACH	UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTES
1	1	LP	00	21	\SS	CA\CT M30\S ST\LT
1	2	RI	01	44		T=8C
1	4	LP	00	75.5	HS	
1	9	RI	00	162.5		CA\CT M15\S ST\LT
1	15	RB	00	290.6		CA\CT M15\S ST\LT
1	18	LP	00	343.6	HS	
1	19	RI	00	368.6		SPAWNING SURVEY SIGN RIGHT
1	21	LP	00	389.6	HS	
1	23	RI	00	408.6		CA\CT M15\S ST\LT
1	26	LP	00	450.1		(3) REDDS IN TAILOUT
1	33	LP	00	583.9	AM	(3) ROUGH SKINNED NEWTS
1	38	LP	00	621.9		CA\CT D15\S ST\LT

Stouts Creek (UMP-185) 2009 Winter Habitat Survey Photographs



Unit 1 - Upstream view of start of Stouts Creek survey.



Unit 15 - Downstream view of placed large wood structure.



Unit 18 - Upstream view of placed large wood structure.



Unit 33 - Off-channel backwater with placed wood.



Unit 38 - Downstream view of the end of the survey with a large wood habitat structure.