

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

STREAM: Stouts Creek (U-185)
BASIN: South Umpqua River
SURVEY TYPE: Post-Tx
DATE: February 19, 2004
SURVEY CREW: Michael Scheu, Jeremiah Bernier
REPORT PREPARED BY: Paul Jacobsen
BASIN AREA: 58.7 km²
USGS MAPS: Milo
ECOREGION: Coast Range Klamath Siskiyou

GENERAL DESCRIPTION:

The Stouts Creek habitat survey extended 556 meters. The channel was alternately constrained by hillslopes and terraces in a broad valley floor. The average valley width index was 4.8 (range: 3.0-9.0). Land use for the reach was young (3-15 cm dbh) trees and forest fire. The average unit gradient was 1.6 percent. Rapids (38%), riffles (23%) and scour pools (21%) dominated stream habitat. Cobble (42%) and gravel (27%) dominated stream substrate. Wood volume was high at 30.5 m³/100m.

COMMENTS:

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

The crew noted several habitat structures during the survey.

REACH 1

T31S-R03W-S04SE

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	4.8	VWI Range:	3 - 9

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	556	3,234	0
Secondary	4	12	0

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 5	<u>First Terrace</u> n = 5
Width: 5.7	Width: 10.0	18.2 (8.3 - 34)	21.4 (9 - 40)
Depth: 0.70	Height: 0.7	1.5 (1.2 - 1.8)	1.7 (1.5 - 1.9)

W:D ratio: 14.2
Stream Flow Type: HF
Avg. Unit Gradient: 1.6%

Entrenchment (ACW:FPW ratio): 1.7
Water temp (°C): 8.5 - 8.5
Habitat Units/100m: 4.8

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	YT	FF
Riparian Vegetation:	M30	S

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</u>
All pieces (>=3m x 0.15m):	97	17.4
Volume (m ³):	170	30.5
Key pieces (>=10m x 0.60m):	24	4.3

OREGON DEPARTMENT OF FISH AND WILDLIFE

STOUTS CREEK POST-TX (U-185)

HABITAT INVENTORY

Report Date: 6/16/2004

Survey Date:

2/19/2004

REACH 1

T31S-R03W-S04SE

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	1	12	5.2	0.40	60	0	0	5	10	50	30	5
POOL-BACKWATER	1	4	3.0	0.70	12	0	0	50	40	10	0	0
POOL-DAMMED	2	56	7.8	0.90	430	0	0	32	43	17	7	0
POOL-LATERAL SCOUR	6	109	6.0	1.22	676	0	2	22	34	29	10	3
RAPID/BOULDERS	9	222	5.6	0.52	1,249	0	0	7	17	53	23	0
RIFFLE	6	146	5.1	0.55	746	0	0	12	33	43	13	0
STEP/STRUCTURE	2	11	6.4	0.40	72	0	0	7	24	59	10	0
Total:	27	560	5.7	0.70	3,246	0	Avg: 0	15	27	42	15	1

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	3	60	6.2	0.83	442	13.63%	0	0.0
Scour Pools	6	109	6.0	1.22	676	20.83%	0	0.0
Glides	0	0			0	0.00%	0	0.0
Riffles	6	146	5.1	0.55	746	22.98%	0	0.0
Rapids	9	222	5.6	0.52	1,249	38.47%	0	0.0
Cascades	1	12	5.2	0.40	60	1.86%	0	0.0
Step/Falls	2	11	6.4	0.40	72	2.23%	0	0.0
Dry	0	0			0	0.00%	0	0.0
Culverts	0	0			0	0.00%	0	0.0

POOL SUMMARY

	<u>Total</u>	<u># / Km</u>
All Pools:	9	16.1
Pools >=1m deep:	7	12.5
Complex pools (LWD pieces>=3):	7	12.5
Pool frequency (channel widths/pool):	6.2	
Residual pool depth (avg):	0.64	

STREAM SUMMARY

STOUTS CREEK POST-TX (U-185)

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	
27	560	5.7	0.70	3,246	0	15	27	42	15	1	

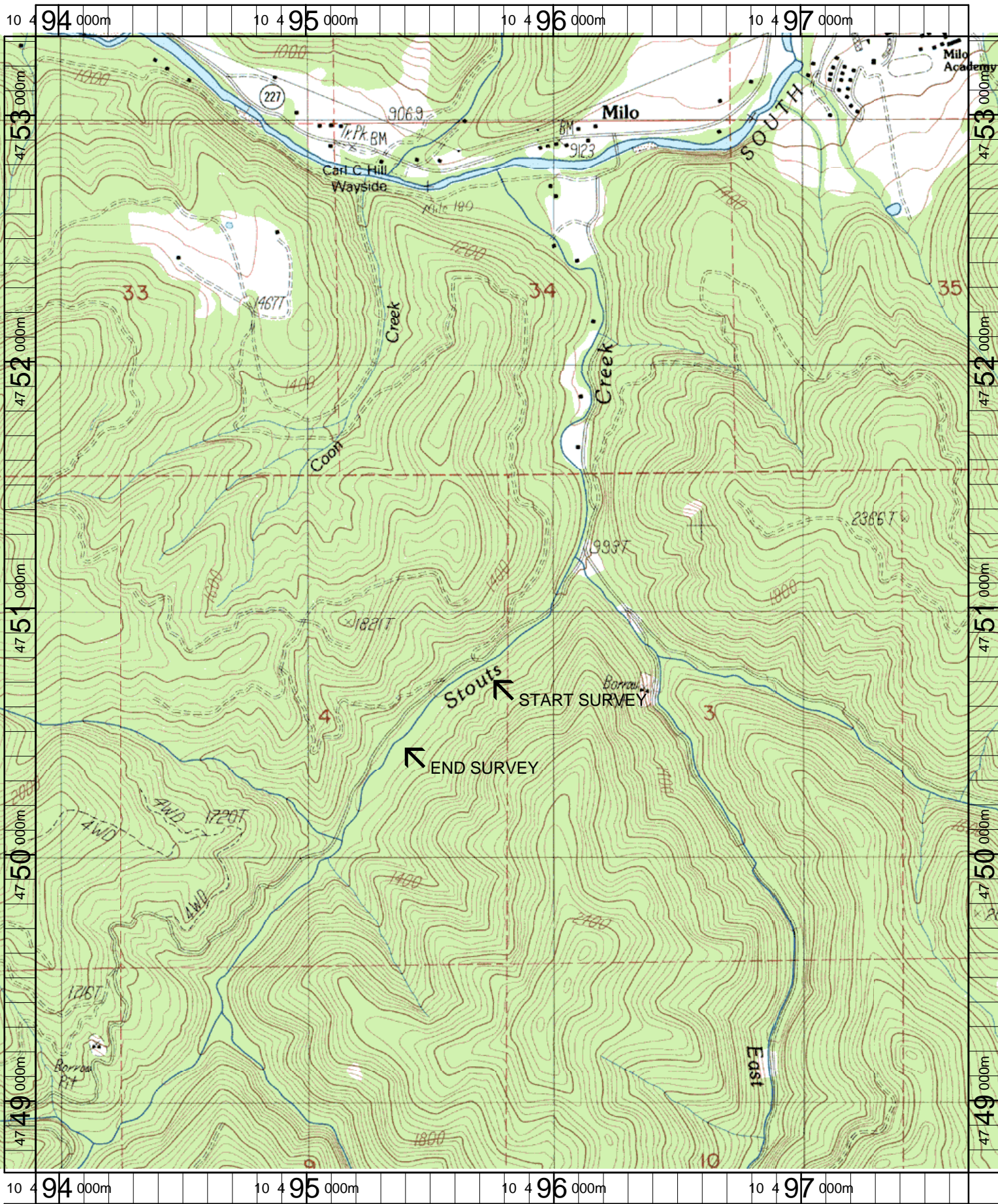
Habitat Group	Wetted Area	
	(m ²)	Percent
Dammed & BW Pools	442	13.63%
Scour Pools	676	20.83%
Glides	0	0.00%
Riffles	746	22.98%
Rapids	1,249	38.47%
Cascades	60	1.86%
Step/Falls	72	2.23%
Dry	0	0.00%
Culverts	0	0.00%

Comment Summary

Oregon Plan Monitoring Sites 2002

MONITORING AREA: **4-UMP** SITE ID: **185** **STOUTS CREEK POST-TX (U-185)**

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
1	LP	00	17.8	/TJ, HS	T=8.5C	
4	RI	00	63.4	HS		
6	CB	00	88.8	HS		
7	LP	00	104.1	HS		
9	RB	00	164.5		PINK FLAG-2 LOGS SITE	
10	SS	00	166.5	HS	"SITE 6 2 LOGS" FLAG	
11	DP	00	206.5	HS	SAME HS IN THIS UNIT	
13	RI	00	241.1	DJ, BV		
14	SS	00	250.3	BV, HS	2 LOGS	
15	RI	00	281.2		"SITE 7 2 PCS W/RW"	
17	RB	00	344.4		SPAWNING SURVEY SIG	
18	RB	00	368.4	HS	9 LOGS, ROCK PIT	
19	LP	00	402.7	HS, SS/	6 LOGS	
20	RI	00	425.3	BV		
22	RB	01	476	BV		
23	BW	10	476	BV, SS/	BV HOLE	
24	RI	00	499.7	SS/		
25	LP	00	517.7	HS, LA	"SITE 11" FLAG	
26	RB	00	539.7	HS./SS, LA		
27	DP	00	556	HS	DAMMED BY LOGS	



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

Location: 10 495788 E 4751018 N
 Caption: STOUTS CREEK RESTORATION SITE - SOUTH UMPQUA BASIN