

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

STREAM: Fish Creek (MS32)  
BASIN: Millicoma River  
SURVEY TYPE: Post-Tx  
DATE: March 6, 2002  
SURVEY CREW: Sara Meguffy, Sarah Schuster  
REPORT PREPARED BY: Paul Jacobsen  
BASIN AREA: 6.0 km<sup>2</sup>  
USGS MAPS: Elk Peak  
ECOREGION: Coast Range Sedimentary

**GENERAL DESCRIPTION:**

The Fish Creek habitat survey extended 779 meters. The channel was constrained by hillslopes in a moderate V-shaped valley. The average valley width index was 1.7 (range: 1.1 – 2.5). Land use for the reach was second growth (15-30 cm dbh) trees. The average unit gradient was 2.6 percent. Riffles (37%) and rapids (31%) dominated stream habitat. Gravel (22%) and bedrock (22%) dominated stream substrate. Wood volume was moderate at 22.5 m<sup>3</sup>/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

**T23S-R10W-S5NW**

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	0%
Moderate V-shape	100%	Multiple Terraces	0%
Open V-shape	0%	Wide Floodplain	0%
Valley Width Index	1.7	VWI Range:	1.1 - 2.5

Channel Morphology (Percent Reach Length)

<u>Constrained</u>		<u>Unconstrained</u>	
Hillslope	100%	Single Channel	0%
Bedrock	0%	Multiple Channel	0%
Terrace	0%	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	779	3,689	0
Secondary	17	14	0

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 5	<u>First Terrace</u> n = 0
Width: 4.4	Width: 8.4	16.7 ( 8.4 - 35 )	( - )
Depth: 0.40	Height: 0.9	1.9 ( 1.5 - 2.1 )	( - )

W:D ratio: 9.1  
Stream Flow Type: MF  
Average Unit Gradient: 2.6%  
Water temperature (°C): 7.5 - 7.5

Entrenchment (ACW:FPW ratio): 1.9  
Habitat Units/100m (total channel length): 6.8  
Habitat Units/100m (primary channel length): 6.9

**Riparian, Bank, and Wood Summary**

	<u>Primary</u>	<u>Secondary</u>
Land Use:	ST	
Riparian Vegetation:	D30	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 primary channel</u>
All pieces (>=3m x 0.15m):	146	18.8
Volume (m <sup>3</sup> ):	175	22.5
Key pieces (>=12m x 0.60m):	16	2.1

OREGON DEPARTMENT OF FISH AND WILDLIFE

FISH CREEK POST-TX (MS-32)

HABITAT INVENTORY

Report Date: 11/15/2013

Survey Date:

3/6/2002

REACH		T23S-R10W-S5NW					REACH					
HABITAT DETAIL												
Habitat Type	Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Total Area (m <sup>2</sup> )	Large Boulders (#>0.5m)	Substrate Percent Wetted Area					
							S/O	Snd	Grvl	Cbl	Bldr	Bdrk
CASCADE/BEDROCK	1	25	5.9	0.20	148	0	5	5	10	5	5	71
CASCADE/BOULDERS	3	38	0.9	0.18	53	0	20	18	12	20	20	10
POOL-BACKWATER	1	4	2.1	0.50	8	0	40	30	20	10	0	0
POOL-DAMMED	4	70	5.7	0.80	419	0	23	25	31	14	8	0
POOL-LATERAL SCOUR	5	87	4.4	0.82	376	0	15	21	23	17	6	18
POOL-PLUNGE	3	23	5.5	0.83	129	0	12	22	35	23	8	0
POOL-STRAIGHT SCOUR	2	12	4.3	0.65	45	0	13	20	30	15	18	5
RAPID/BEDROCK	10	211	4.5	0.24	941	0	5	8	7	5	7	68
RAPID/BOULDERS	3	50	3.9	0.30	192	0	7	13	22	25	27	7
RIFFLE	16	273	5.1	0.33	1,377	0	10	17	30	23	8	12
STEP/BEDROCK	1	1	4.3	0.15	3	0	5	5	5	0	0	85
STEP/BOULDERS	3	2	3.5	0.15	10	0	10	13	22	22	30	3
STEP/LOG	2	1	3.0	0.15	2	0	11	16	23	26	24	0
<b>Total:</b>	54	796	4.4	0.40	3,703	0	<b>Avg:</b> 11	16	22	17	11	22

HABITAT SUMMARY								
Habitat Group	Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area		Large Boulders	
					(m <sup>2</sup> )	Percent	Number	(# / 100m <sup>2</sup> )
Dammed & BW Pools	5	74	5.0	0.74	428	11.55%	0	0.0
Scour Pools	10	122	4.7	0.79	550	14.84%	0	0.0
Glides	0	0			0	0.00%	0	0.0
Riffles	16	273	5.1	0.33	1,377	37.18%	0	0.0
Rapids	13	261	4.4	0.25	1,133	30.59%	0	0.0
Cascades	4	63	2.2	0.18	200	5.41%	0	0.0
Step/Falls	6	4	3.5	0.15	16	0.42%	0	0.0
Dry	0	0			0	0.00%	0	0.0
Culverts	0	0			0	0.00%	0	0.0

POOL SUMMARY			
	Total	Total of all Channel Lengths # / Km	Primary Channel Length # / Km
All Pools:	15	18.8	19.3
Pools >=1m deep:	0	0.0	0.0
Complex pools (LWD pieces>=3):	7	8.8	9.0
Pool frequency (channel widths/pool):	6.3		
Residual pool depth (avg):	0.51		

# Comment Summary

## Oregon Plan Monitoring Sites 2002

MONITORING AREA: **3-MS**      SITE ID: **32**      **FISH CREEK POST-TX (MS-32)**

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTES
1	RI	00	9.5	HS	START AT /TJ
2	LP	01	24.1	HS, DJ	
4	RI	00	47.9	HS, DJ	SG = 4 SQ M
5	LP	00	66.4	HS DJ	
6	RI	00	91.4	HS	
7	RI	00	104.6	HS	
8	DP	00	125	HS, DJ	SG = 2 SQ M
9	RI	01	150	HS, TJ/	CE, WL - ELK TRACKS, SG=2 SQ M
11	RI	00	173.2	CS/	BOULDERS
12	RI	00	187.4	HS	SG = 2 SQ M
13	PP	00	194.6		SG = 2 SQ M
14	SB	00	195		H = .3
16	LP	00	240.1	DJ	
17	RI	01	252.6	CE/, TJ/	
19	SP	00	257.6	DJ	T = 7.5
22	SL	00	289.8	DJ, HS	H = 1.1
24	PP	00	320		SG = 6 SQ M
25	SL	00	320.25	DJ	H = .3
27	LP	00	341.55		SG = 4 SQ M
36	RR	01	462.85	TJ/	
37	SB	11	462.85		H = .5

# Comment Summary

## Oregon Plan Monitoring Sites 2002

MONITORING AREA: **3-MS**      SITE ID: **32**      **FISH CREEK POST-TX (MS-32)**

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTES
38	SR	00	463.65		H = .6
43	RI	00	588.65	HS, DJ	
44	RR	00	612.75	HS, DJ	
45	RI	00	637.75	HS	
46	RR	00	662.75	DJ	
47	RR	00	687.75	CS/	
48	SP	00	694.75	CS/	
49	CB	00	719.75	CS/	
50	RB	00	744.75	CS/	
51	RI	00	753.25	DJ, CS/	
52	SB	00	754.55	HS, CS/	
53	DP	00	770.65	HS, DJ	CS/, SMALL STEP = .2
54	RI	01	778.65	TJ/, CS/	CS/, T = 7.5