

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

STREAM: Deadhorse Creek (W78)  
BASIN: Molalla River  
SURVEY TYPE: Post-Tx  
DATE: February 28, 2002  
SURVEY CREW: Loren Stucker, Carmen VanDyke  
REPORT PREPARED BY: Paul Jacobsen  
BASIN AREA: 38.1 km<sup>2</sup>  
USGS MAPS: Soosap Peak  
ECOREGION: Willamette Valley Foothills

**GENERAL DESCRIPTION:**

The Deadhorse Creek habitat survey extended 602 meters. The channel was alternately constrained by hillslopes and terraces in a broad valley floor. The average valley width index was 2.3 (range: 1.3-3.5). Land uses for the reach were second growth (15-30 cm dbh) trees and active timber harvest. The average unit gradient was 2.9 percent. Rapids (53%) and riffles (25%) dominated stream habitat. Cobble (34%) and gravel (32%) dominated stream substrate. Wood volume was high at 44.5 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

**T5S-R4E-S31NW**

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	2.3	VWI Range:	1.3 - 3.5

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	602	5,943	0
Secondary	63	238	0

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 5	<u>First Terrace</u> n = 2
Width: 8.7	Width: 12.6	19.4 ( 16.6 - 23.5 )	23.2 ( 20.4 - 26 )
Depth: 0.61	Height: 0.7	1.4 ( 1.2 - 1.6 )	1.8 ( 1.5 - 2.1 )

W:D ratio: 18.7

Entrenchment (ACW:FPW ratio): 1.5

Stream Flow Type: MF

Habitat Units/100m (total channel length): 4.8

Average Unit Gradient: 2.9%

Habitat Units/100m (primary channel length): 5.3

Water temperature (°C): 3.8 - 3.8

**Riparian, Bank, and Wood Summary**

	<u>Primary</u>	<u>Secondary</u>
Land Use:	ST	TH
Riparian Vegetation:	S	M30

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):	89	14.8
Volume (m <sup>3</sup> ):	268	44.5
Key pieces (>=12m x 0.60m):	16	2.7

OREGON DEPARTMENT OF FISH AND WILDLIFE

DEADHORSE CREEK POST-TX (W-78)

HABITAT INVENTORY

Report Date: 11/15/2013

Survey Date:

2/28/2002

REACH	T5S-R4E-S31NW							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/BOULDERS	2	30	1.0	0.13	30	0	2	2	31	40	24	0
POOL-BACKWATER	1	4	2.2	0.30	9	0	90	5	0	5	0	0
POOL-LATERAL SCOUR	7	128	7.7	1.20	1,019	0	0	8	38	31	22	1
POOL-PLUNGE	1	11	10.0	1.30	112	0	0	5	32	36	27	0
RAPID/BOULDERS	14	336	9.4	0.46	3,251	0	0	5	28	36	30	0
RIFFLE	6	143	10.8	0.43	1,568	0	0	8	39	36	17	0
STEP/BOULDERS	1	13	14.5	0.35	191	0	0	5	30	35	30	0
<b>Total:</b>	<b>32</b>	<b>665</b>	<b>8.7</b>	<b>0.61</b>	<b>6,181</b>	<b>0</b>	<b>Avg: 3</b>	<b>6</b>	<b>32</b>	<b>34</b>	<b>24</b>	<b>0</b>

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	1	4	2.2	0.30	9	0.14%	0	0.0	
Scour Pools	8	140	8.0	1.21	1,131	18.30%	0	0.0	
Glides	0	0			0	0.00%	0	0.0	
Riffles	6	143	10.8	0.43	1,568	25.37%	0	0.0	
Rapids	14	336	9.4	0.46	3,251	52.60%	0	0.0	
Cascades	2	30	1.0	0.13	30	0.49%	0	0.0	
Step/Falls	1	13	14.5	0.35	191	3.10%	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:	9	13.5	15.0
Pools >=1m deep:	8	12.0	13.3
Complex pools (LWD pieces>=3):	4	6.0	6.6
Pool frequency (channel widths/pool):	5.9		
Residual pool depth (avg):	0.68		

# Comment Summary

## Oregon Plan Monitoring Sites 2002

MONITORING AREA: **8-W**      SITE ID: **78**      DEADHORSE CREEK POST-TX (W-78)

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTES
1	LP	00	19.3	HS	RECENT CLEARCUT RIGHT
3	RI	01	69.3	SS/SS	
5	RI	01	119.3	HS	
7	RI	00	144.3		LARGE VALLEY LEFT, NO TRIB
8	RI	00	169.3	HS	
9	RI	00	188.2	/SS	
10	LP	00	205.4	HS	SG = 1 SQ M
11	RB	01	230.4	/TJ	
12	CB	11	230.4		TRIB FLOW = 5%
13	RB	00	260.8	HS	SITE 5 - 4 LOGS
14	LP	01	293.6		SG = 1 SQ M
15	BW	10	293.6		CLEARCUT RIGHT ENDS
18	RB	00	368.6	SS/	
19	RB	00	393.6		CONSTRAINED BY HILLSLOPES
21	PP	00	428.6		NO STEP
27	LP	01	511.9		SG = 1 SQ M
30	RB	00	561.9	/SS	
32	LP	00	601.6		END SIGN ON RIGHT