

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

STREAM: Dietz Creek (N134)
BASIN: Kilchis River
SURVEY TYPE: Pre-Tx
DATE: February 14, 2002
SURVEY CREW: Sean Allen, Rachel Werner
REPORT PREPARED BY: Paul Jacobsen
BASIN AREA: 2.2 km²
USGS MAPS: Kilchis River
ECOREGION: Coast Range Volcanic

GENERAL DESCRIPTION:

The Dietz Creek habitat survey extended 508 meters. The channel was alternately constrained by hillslopes and terraces in a broad valley floor. The average valley width index was 3.8 (range: 1.0-10.0). Land use for the reach was second growth (15-30 cm dbh) trees. The average unit gradient was 5.6 percent. Rapids (42%) and riffles (23%) dominated stream habitat. Gravel (33%) and boulder (30%) dominated stream substrate. Wood volume was low at 10.2 m³/100m.

COMMENTS:

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

REACH

T1N-R9W-S23NW

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	3.8	VWI Range:	1 - 10

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	508	2,260	0
Secondary	10	8	0

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 5	<u>First Terrace</u> n = 3
Width: 4.3	Width: 7.6	11.5 (6.8 - 20)	10.8 (8.5 - 13)
Depth: 0.41	Height: 0.6	1.2 (1 - 1.3)	1.4 (1.25 - 1.4)

W:D ratio: 12.8

Entrenchment (ACW:FPW ratio): 1.5

Stream Flow Type: MF

Habitat Units/100m (total channel length): 6.9

Average Unit Gradient: 5.6%

Habitat Units/100m (primary channel length): 7.1

Water temperature (°C): 6.0 - 6.0

Riparian, Bank, and Wood Summary

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

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):	70	13.8
Volume (m ³):	52	10.2
Key pieces (>=12m x 0.60m):	0	0.0

OREGON DEPARTMENT OF FISH AND WILDLIFE

DIETZ CREEK PRE-TX (N-134)

HABITAT INVENTORY

Report Date: 11/15/2013

Survey Date:

2/14/2002

REACH	T1N-R9W-S23NW							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	
CASCADE/BOULDERS	2	39	4.3	0.35	166	0	0	7	33	29	31	0	
POOL-LATERAL SCOUR	1	6	3.1	0.50	19	0	0	5	25	20	30	20	
POOL-PLUNGE	4	25	5.4	0.83	141	0	0	5	31	30	26	7	
POOL-STRAIGHT SCOUR	7	64	4.8	0.72	304	0	0	10	35	21	23	11	
RAPID/BOULDERS	9	217	4.3	0.27	942	0	0	5	30	28	37	0	
RIFFLE	5	114	3.8	0.18	467	0	0	1	48	37	14	0	
RIFFLE W/ POCKETS	1	15	4.3	0.20	65	0	0	5	35	35	25	0	
STEP/BOULDERS	3	38	4.0	0.37	160	0	0	3	17	18	55	7	
STEP/LOG	4	1	3.9	0.15	4	0	0	4	30	35	31	0	
Total:	36	518	4.3	0.41	2,268	0	Avg: 0	5	33	28	30	4	

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	12	94	4.9	0.74	463	20.42%	0	0.0
Glides	0	0			0	0.00%	0	0.0
Riffles	6	129	3.9	0.18	532	23.46%	0	0.0
Rapids	9	217	4.3	0.27	942	41.56%	0	0.0
Cascades	2	39	4.3	0.35	166	7.30%	0	0.0
Step/Falls	7	39	3.9	0.24	164	7.25%	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:	12	23.1	23.6
Pools >=1m deep:	2	3.9	3.9
Complex pools (LWD pieces>=3):	5	9.6	9.8
Pool frequency (channel widths/pool):	5.7		
Residual pool depth (avg):	0.57		

Comment Summary

Oregon Plan Monitoring Sites 2002

MONITORING AREA: 1-NC SITE ID: 134 DIETZ CREEK PRE-TX (N-134)

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTES
1	RB	00	25.1	/CS	BRIDGE
3	RB	01	43.8	TJ/	
7	SL	00	57.4	DJ	H = .4
12	SL	00	128.8		H = .75
16	SL	00	190.1		H = .6
18	SL	00	200.8		H = .7
34	SB	00	483.5	SS/	
35	RB	00	499	/LI	
36	SP	00	508.4		TRIB CONFLUENCE