

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

STREAM: Lost Creek (W-229)
BASIN: Molalla River
SURVEY TYPE: Pre-Tx
DATE: March 11, 2004
SURVEY CREW: Jim Andrews, April Waters
REPORT PREPARED BY: Paul Jacobsen
BASIN AREA: 18.5 km²
USGS MAPS: Rooster Rock
ECOREGION: Cascades Western Central

GENERAL DESCRIPTION:

The Lost Creek habitat survey extended 949 meters. The channel was constrained by hillslopes in a moderate V-shaped valley. The average valley width index was 2.0 (range: 1.2-4.5). Land use for the reach was large (30-50 cm dbh) trees. The average unit gradient was 4.2 percent. Cascades (67%) dominated stream habitat. Boulders (44%) and cobble (23%) dominated stream substrate. Wood volume was high at 37.3 m³/100m.

COMMENTS:

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

REACH 1

T07S-R04E-S01SW

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	0%
Moderate V-shape	100%	Multiple Terraces	0%
Open V-shape	0%	Wide Floodplain	0%
Valley Width Index	2.0	VWI Range:	1.22 - 4.5

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	949	8,882	0
Secondary	263	1,096	4

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 5	<u>First Terrace</u> n = 1
Width: 6.5	Width: 12.4	16.7 (13.5 - 19.7)	14.1 (14.1 - 14.1)
Depth: 0.66	Height: 0.7	1.3 (1 - 1.8)	1.4 (1.35 - 1.35)

W:D ratio: 20.5
Stream Flow Type: MF
Avg. Unit Gradient: 4.2%

Entrenchment (ACW:FPW ratio): 1.4
Water temp (°C): 5.8 - 5.8
Habitat Units/100m: 4.4

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	LT	
Riparian Vegetation:	D15	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</u>
All pieces (>=3m x 0.15m):	271	28.6
Volume (m ³):	354	37.3
Key pieces (>=10m x 0.60m):	18	1.9

OREGON DEPARTMENT OF FISH AND WILDLIFE

LOST CREEK PRE-TX (L-229)

HABITAT INVENTORY

Report Date: 6/16/2004

Survey Date:

3/11/2004

REACH 1

T07S-R04E-S01SW

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/BEDROCK	1	35	10.4	0.70	366	0	0	0	5	5	14	76
CASCADE/BOULDERS	21	676	7.6	0.60	6,329	0	3	10	9	26	48	4
DRY UNIT	2	28	3.1	0.00	87	0	5	20	5	32	39	0
POOL-DAMMED	1	6	1.4	0.30	8	0	55	27	9	5	5	0
POOL-LATERAL SCOUR	9	116	7.0	1.27	846	0	6	23	12	16	37	7
POOL-PLUNGE	1	14	10.5	2.00	150	0	4	21	13	17	21	25
PUDDLED UNIT	2	13	1.5	0.15	21	0	10	19	0	24	48	0
RAPID/BOULDERS	10	235	7.0	0.57	1,767	0	2	8	11	27	50	2
RIFFLE	2	69	5.4	0.35	312	0	0	16	9	32	44	0
STEP/BOULDERS	2	15	4.4	0.40	87	0	0	2	2	10	52	33
STEP/COBBLE	2	4	0.9	0.15	4	0	7	9	13	25	46	0
Total:	53	1,213	6.5	0.66	9,978	0	Avg: 4	13	9	23	44	6

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	1	6	1.4	0.30	8	0.08%	0	0.0
Scour Pools	10	130	7.4	1.35	996	9.98%	0	0.0
Glides	0	0			0	0.00%	0	0.0
Riffles	2	69	5.4	0.35	312	3.13%	0	0.0
Rapids	10	235	7.0	0.57	1,767	17.71%	0	0.0
Cascades	22	711	7.7	0.61	6,695	67.09%	0	0.0
Step/Falls	4	19	2.7	0.28	91	0.91%	0	0.0
Dry	4	42	2.3	0.08	109	1.09%	0	0.0
Culverts	0	0			0	0.00%	0	0.0

POOL SUMMARY

	Total	# / Km	
All Pools:	11	9.1	263
Pools >=1m deep:	9	7.4	
Complex pools (LWD pieces>=3):	7	5.8	
Pool frequency (channel widths/pool):	8.9		
Residual pool depth (avg):	0.90		

STREAM SUMMARY

LOST CREEK PRE-TX (L-229)

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	
53	1,213	6.5	0.66	9,978	4	13	9	23	44	6	

Habitat Group	Wetted Area	
	(m ²)	Percent
Dammed & BW Pools	8	0.08%
Scour Pools	996	9.98%
Glides	0	0.00%
Riffles	312	3.13%
Rapids	1,767	17.71%
Cascades	6,695	67.09%
Step/Falls	91	0.91%
Dry	109	1.09%
Culverts	0	0.00%

Comment Summary

Oregon Plan Monitoring Sites 2002

MONITORING AREA: 7-L SITE ID: 229 LOST CREEK PRE-TX (L-229)

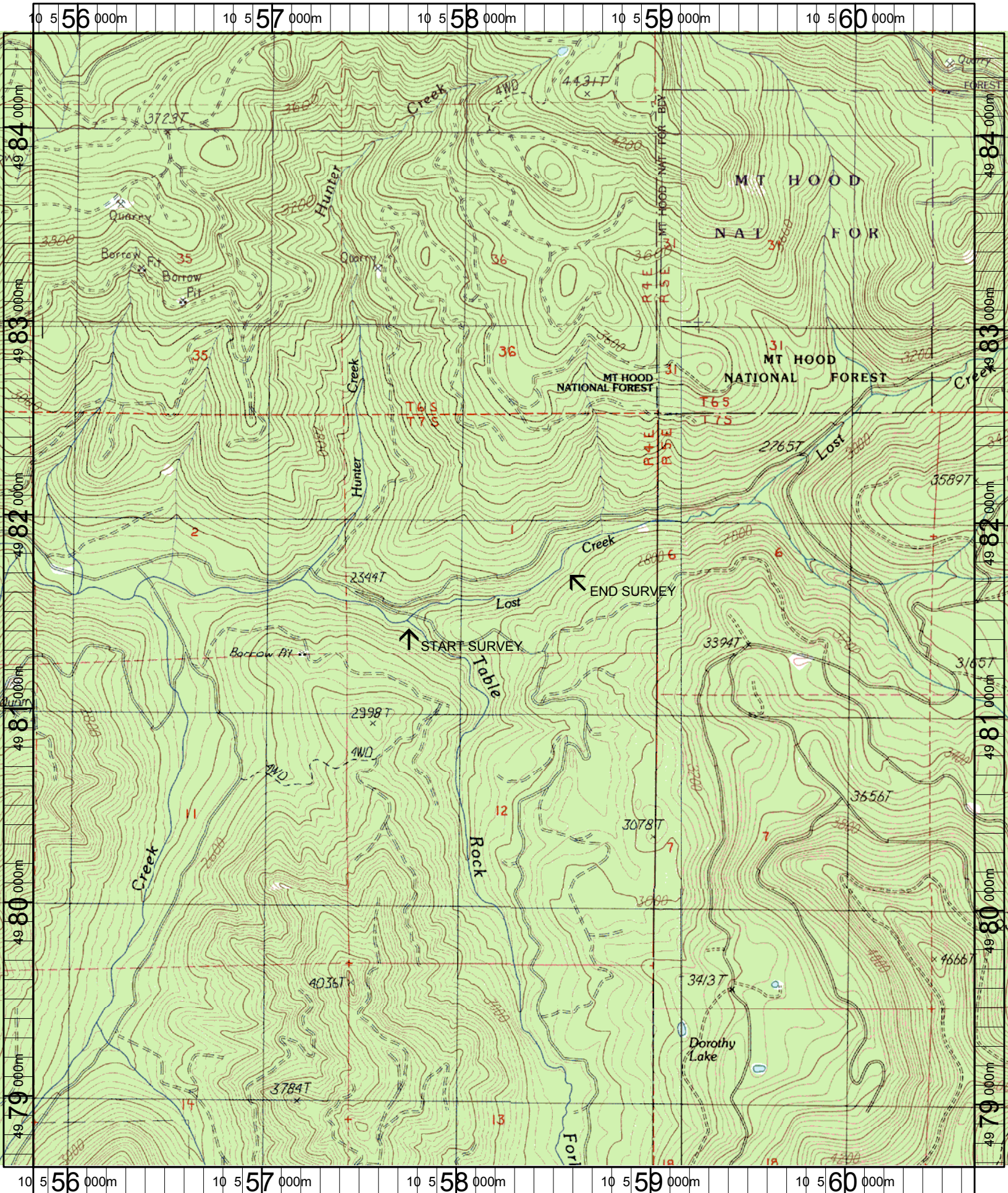
UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
1	CB	00	43.3	BC	T=5C/1040	
2	RB	00	55.5		SOME SNOW	
12	LP	00	231.7	/LA, /SS		
13	CR	01	266.9	SS/SS, TJ/	LIMESTONE	
14	SB	11	266.9		TRIB UNIT T=7.6C	
16	CB	00	316.6	DJ,SS,LI/		
17	RB	01	356.3	TJ,SS/		
18	CB	11	356.3		TRIB UNIT T=7.5C/1227	
19	CB	01	397.7	TJ/		
20	CB	11	397.7	SS/	T=7C	
22	CB	01	473.6	DJ		
26	LP	00	492.3	HS/	FUTURE HS SITE	
29	CB	01	596.6		MERGANSE	
30	RB	01	621.3	LA,SS/	FUTURE HS	
38	CB	01	745.4	/TJ	FUTURE HS	
39	CB	11	745.4		T=6C/1430, TRIB UNIT	
40	RB	01	778	LA,DJ	LF CHNL 60% FLOW	
42	RB	02	806.2		RT CHNL, 40% FLOW	
43	CB	02	806.2	/SS		
46	CB	01	861.4	TJ/	TRIB ENTERS TWO AREA	
47	SC	11	861.4	DJ	T=7C/1520	

Comment Summary

Oregon Plan Monitoring Sites 2002

MONITORING AREA: 7-L SITE ID: 229 LOST CREEK PRE-TX (L-229)

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
49	DP	12	861.4	/SS	DAMMED BY OILSHEEN C	
50	CB	01	905.9	DJ	OLD LOG OPERATIONS	
51	RB	02	905.9	BV		
52	CB	01	949.1	/TJ,SS/LA	EOS, T=5.8C/1608	
53	CB	11	949.1		T=7C	



Name: ROOSTER ROCK
 Date: 8/10/2004
 Scale: 1 inch equals 2000 feet

Location: 10 558214 E 4981584 N
 Caption: LOST CREEK RESTORATION SITE - MOLALLA BASIN