

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

STREAM: Starvout Creek (U151)
BASIN: Cow Creek/S. Umpqua River
SURVEY TYPE: Post-Tx
DATE: March 13, 2002
SURVEY CREW: Loren Stucker, Russ Macal
REPORT PREPARED BY: Paul Jacobsen
BASIN AREA: 30.8 km²
USGS MAPS: Starvout Creek
ECOREGION: Coast Range Klamath Siskiyou

GENERAL DESCRIPTION:

The Starvout Creek habitat survey extended 502 meters. The channel was constrained by terraces in a broad valley floor. The average valley width index was 10.0. Land use for the reach was second growth (15-30 cm dbh) trees. The average unit gradient was 2.5 percent. Rapids (44%) and riffles (33%) dominated stream habitat. Gravel (45%) and cobble (33%) dominated stream substrate. Wood volume was low at 16.7 m³/100m.

COMMENTS:

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

The crew noted several habitat structures as well as evidence of beaver activity during the survey.

REACH

T32S-R4W-S20SE

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	10.0	VWI Range:	10 - 10

Channel Morphology (Percent Reach Length)

<u>Constrained</u>		<u>Unconstrained</u>	
Hillslope	0%	Single Channel	0%
Bedrock	0%	Multiple Channel	0%
Terrace	100%	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	502	2,033	0
Secondary	50	55	0

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 5	<u>First Terrace</u> n = 5
Width: 3.8	Width: 6.1	9.2 (7.7 - 10.9)	14.7 (11.2 - 21.5)
Depth: 0.38	Height: 0.4	0.9 (0.8 - 0.9)	1.3 (1.1 - 1.5)

W:D ratio: 13.9

Stream Flow Type: MF

Average Unit Gradient: 2.5%

Water temperature (°C): 4.7 - 4.7

Entrenchment (ACW:FPW ratio): 1.5

Habitat Units/100m (total channel length): 6.0

Habitat Units/100m (primary channel length): 6.6

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	ST	
Riparian Vegetation:	D15	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):	49	9.8
Volume (m ³):	84	16.7
Key pieces (>=12m x 0.60m):	2	0.4

OREGON DEPARTMENT OF FISH AND WILDLIFE

STARVOUT CREEK POST-TX (U-151)

HABITAT INVENTORY

Report Date: 11/15/2013

Survey Date:

3/13/2002

REACH		T32S-R4W-S20SE					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
GLIDE	1	10	4.3	0.25	45	0	0	5	75	10	10	0
POOL-LATERAL SCOUR	12	113	3.9	0.66	445	0	1	6	47	30	11	5
RAPID/BOULDERS	12	257	3.5	0.21	918	0	0	2	38	40	17	3
RIFFLE	8	172	4.0	0.22	681	0	0	3	49	32	14	2
Total:	33	552	3.8	0.38	2,088	0	Avg: 0	4	45	33	14	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	113	3.9	0.66	445	21.30%	0	0.0	
Glides	1	10	4.3	0.25	45	2.14%	0	0.0	
Riffles	8	172	4.0	0.22	681	32.63%	0	0.0	
Rapids	12	257	3.5	0.21	918	43.94%	0	0.0	
Cascades	0	0			0	0.00%	0	0.0	
Step/Falls	0	0			0	0.00%	0	0.0	
Dry	0	0			0	0.00%	0	0.0	
Culverts	0	0			0	0.00%	0	0.0	

POOL SUMMARY			
	Total of all Channel Lengths		Primary Channel Length
	<u>Total</u>	<u># / Km</u>	<u># / Km</u>
All Pools:	12	21.7	23.9
Pools >=1m deep:	0	0.0	0.0
Complex pools (LWD pieces>=3):	6	10.9	11.9
Pool frequency (channel widths/pool):	7.5		
Residual pool depth (avg):	0.38		

Comment Summary

Oregon Plan Monitoring Sites 2002

MONITORING AREA: **4-UMP** SITE ID: **151** **STARVOUT CREEK POST-TX (U-151)**

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTES
1	RI	00	4	HS	BEGIN AT SIGN ON RIGHT
2	LP	00	13.6	HS	
3	RI	00	41.2	BV	
4	LP	00	52.7	HS	
6	LP	01	65.6	HS	
9	LP	00	105.3		SPAWNING GRAVEL = 1 SQ M.
11	LP	00	136	HS	
13	LP	00	158.4	HS, BV	2 STEPS BETWEEN POOLS
15	RI	00	180.8		MINING EQUIP: BUCKETS, SHOVELS
16	RB	00	201.2		PIPES ON SIDE OF CHANNEL
17	LP	00	208.6		MINING TRASH IN STREAM
18	RB	01	229.3	SS/	
20	RI	00	258.3	BC, CS	
21	RB	00	282.8		2 @ 24" FISH CARCASSES
22	LP	00	299.4	HS	FISH CARCASS
24	LP	00	337.6	HS	FLAG: SNORKEL POOL #4
25	RB	00	380.3	SS/, HS	
26	GL	00	390.7		FISH CARCASS
31	RB	00	479.4	HS	
33	RB	00	502.4		END SIGN ON ALDER LEFT