

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

STREAM: Feagles Creek (MC31)  
BASIN: Yaquina River  
SURVEY TYPE: Post-Tx  
DATE: January 28, 2002  
SURVEY CREW: Loren Stucker, Russ Macal  
REPORT PREPARED BY: Paul Jacobsen  
BASIN AREA: 21.0 km<sup>2</sup>  
USGS MAPS: Harlan  
ECOREGION: Coast Range Sedimentary

**GENERAL DESCRIPTION:**

The Feagles Creek habitat survey extended 487 meters. The channel was constrained by terraces in a broad valley floor. The average valley width index was 4.5 (range: 1.5-10.0). Land uses for the reach were light grazing and second growth (15-30 cm dbh) trees. The average unit gradient was 1.7 percent. Rapids (54%) and scour pools (24%) dominated stream habitat. Cobble (38%) and gravel (33%) dominated stream substrate. Wood volume was high at 43.7 m<sup>3</sup>/100m.

**COMMENTS:**

There was one potential barrier to upstream fish migration in the surveyed length. This was a culvert whose downstream end was perched 1.2 meters above the stream. This culvert had a slope of 5.0%.

The crew noted several habitat structures during the survey.

REACH

T12S-R8W-S30NE

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	4.5	VWI Range:	1.5 - 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	487	3,214	0
Secondary	1	1	0

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 5	<u>First Terrace</u> n = 5
Width: 6.5	Width: 8.6	13.5 ( 11.7 - 15.6 )	16.0 ( 12.6 - 20.5 )
Depth: 0.57	Height: 0.5	1.0 ( 0.8 - 1.2 )	1.5 ( 1.2 - 2 )

W:D ratio: 16.8

Entrenchment (ACW:FPW ratio): 1.7

Stream Flow Type: MF

Habitat Units/100m (total channel length): 4.5

Average Unit Gradient: 1.7%

Habitat Units/100m (primary channel length): 4.5

Water temperature (°C): 6.5 - 6.5

**Riparian, Bank, and Wood Summary**

	<u>Primary</u>	<u>Secondary</u>
Land Use:	LG	ST
Riparian Vegetation:	G	D30

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):	126	25.9
Volume (m <sup>3</sup> ):	213	43.6
Key pieces (>=12m x 0.60m):	18	3.7

OREGON DEPARTMENT OF FISH AND WILDLIFE

FEAGLES CREEK POST-TX (MC-31)

HABITAT INVENTORY

Report Date: 11/15/2013

Survey Date:

1/28/2002

REACH	T12S-R8W-S30NE							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	
CULVERT CROSSING	1	15	3.6	0.30	54	0	30	20	20	20	10	0	
POOL-LATERAL SCOUR	4	55	7.1	1.08	381	0	1	16	32	41	5	5	
POOL-PLUNGE	1	16	18.5	2.00	302	0	0	5	50	40	5	0	
POOL-STRAIGHT SCOUR	1	13	6.5	1.10	83	0	0	15	30	25	5	25	
RAPID/BOULDERS	9	277	6.4	0.32	1,736	0	1	9	37	44	6	3	
RIFFLE	3	76	6.4	0.42	447	0	0	8	35	48	7	2	
RIFFLE W/ POCKETS	1	35	6.0	0.30	210	0	5	10	45	35	5	0	
STEP/BEDROCK	1	1	1.0	0.05	1	0	0	0	0	0	0	100	
STEP/STRUCTURE	1	1	3.0	0.30	2	0	30	20	20	20	10	0	
<b>Total:</b>		22	488	6.5	0.57	3,215	0	<b>Avg:</b> 3	11	33	38	6	8

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	0	0			0	0.00%	0	0.0	
Scour Pools	6	84	8.9	1.23	766	23.81%	0	0.0	
Glides	0	0			0	0.00%	0	0.0	
Riffles	4	111	6.3	0.39	657	20.43%	0	0.0	
Rapids	9	277	6.4	0.32	1,736	53.99%	0	0.0	
Cascades	0	0			0	0.00%	0	0.0	
Step/Falls	2	1	2.0	0.18	3	0.08%	0	0.0	
Dry	0	0			0	0.00%	0	0.0	
Culverts	1	15	3.6	0.30	54	1.68%	0	0.0	

POOL SUMMARY			
	Total	Total of all Channel Lengths # / Km	Primary Channel Length # / Km
All Pools:	6	12.3	12.3
Pools >=1m deep:	4	8.2	8.2
Complex pools (LWD pieces>=3):	4	8.2	8.2
Pool frequency (channel widths/pool):	9.4		
Residual pool depth (avg):	0.94		

# Comment Summary

## Oregon Plan Monitoring Sites 2002

MONITORING AREA: **2-MC**      SITE ID: **31**      **FEAGLES CREEK POST-TX (MC-31)**

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTES
1	RI	00	19.5		T = 6.5, SNOW ON BOTH BANKS
7	RP	00	179.2	SS/	REDD, POCKETS FORMED BY WOOD
10	RB	01	245.7	HS, TJ/	POCKETS = .8 x 2
11	SR	11	245.7		TRIB FLOW = 5%
14	RB	00	314.9	DJ, HS	
16	SS	00	331.9		H = 1.2
17	CC	00	346.9	PA	GALVANIZED OVAL, 4 x 2.5
18	RI	00	385.2	SS/	
20	LP	00	435.6	HS	
22	RB	00	486.9	SS/	END TAGS LEFT AND RIGHT