

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

STREAM: Crab Creek (MC20)  
BASIN: Alsea River  
SURVEY TYPE: Pre-Tx  
DATE: February 21, 2002  
SURVEY CREW: Loren Stucker, Russ Macal  
REPORT PREPARED BY: Paul Jacobsen  
BASIN AREA: 15.4 km<sup>2</sup>  
USGS MAPS: Five Rivers  
ECOREGION: Coast Range Sedimentary

**GENERAL DESCRIPTION:**

The Crab Creek habitat survey extended 598 meters. The channel was constrained by terraces in a broad valley floor. The average valley width index was 3.5 (range: 2.3 – 5.5). Land uses for the reach were agriculture and large (30-50 cm dbh) trees. The average unit gradient was 0.4 percent. Scour pools (63%) and riffles (35%) dominated stream habitat. Gravel (40%) and sand (29%) dominated stream substrate. Wood volume was low at 5.4 m<sup>3</sup>/100m.

**COMMENTS:**

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

REACH

**T15S-R10W-S12SE**

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	3.5	VWI Range:	2.3 - 5.5

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	598	4,539	0
Secondary	52	88	1

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 5	<u>First Terrace</u> n = 5
Width: 7.0	Width: 11.6	13.5 ( 10.9 - 15.5 )	16.4 ( 12.7 - 20.3 )
Depth: 0.64	Height: 0.6	1.2 ( 1 - 1.6 )	1.8 ( 1.7 - 2 )

W:D ratio: 20.0

Entrenchment (ACW:FPW ratio): 1.2

Stream Flow Type: MF

Habitat Units/100m (total channel length): 3.7

Average Unit Gradient: 0.4%

Habitat Units/100m (primary channel length): 4.0

Water temperature (°C): 9.0 - 9.0

**Riparian, Bank, and Wood Summary**

	<u>Primary</u>	<u>Secondary</u>
Land Use:	AG	LT
Riparian Vegetation:	D3	P

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):	45	7.5
Volume (m <sup>3</sup> ):	32	5.3
Key pieces (>=12m x 0.60m):	0	0.0

**OREGON DEPARTMENT OF FISH AND WILDLIFE**

**CRAB CREEK PRE-TX (MC-20)**

**HABITAT INVENTORY**

Report Date: 11/15/2013

Survey Date:

2/21/2002

REACH		T15S-R10W-S12SE					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
POOL-LATERAL SCOUR	14	383	7.7	0.87	2,904	0	3	30	31	3	0	33
PUDDLED UNIT	1	46	1.9	0.20	86	0	40	60	0	0	0	0
RAPID/BOULDERS	1	6	0.2	0.05	1	0	40	60	0	0	0	0
RIFFLE	8	214	7.5	0.38	1,636	0	2	18	67	5	0	8
<b>Total:</b>	24	649	7.0	0.64	4,627	0	<b>Avg:</b> 6	29	40	3	0	22

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	14	383	7.7	0.87	2,904	62.75%	0	0.0	
Glides	0	0			0	0.00%	0	0.0	
Riffles	8	214	7.5	0.38	1,636	35.35%	0	0.0	
Rapids	1	6	0.2	0.05	1	0.03%	0	0.0	
Cascades	0	0			0	0.00%	0	0.0	
Step/Falls	0	0			0	0.00%	0	0.0	
Dry	1	46	1.9	0.20	86	1.87%	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:	14	21.6	23.4
Pools >=1m deep:	4	6.2	6.7
Complex pools (LWD pieces>=3):	7	10.8	11.7
Pool frequency (channel widths/pool):	4.0		
Residual pool depth (avg):	0.52		

# Comment Summary

## Oregon Plan Monitoring Sites 2002

MONITORING AREA: **2-MC**      SITE ID: **20**      CRAB CREEK PRE-TX (MC-20)

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTES
1	LP	00	12.5		SITE #4
3	LP	00	53.8		FRY, SG = 2 SQ M, REDD
5	LP	01	112.1	SS/, TJ/	FRY
7	RI	00	151.1		SG = 1 SQ M
10	LP	00	231.1	SS/	SG = 2 SQ M
11	RI	00	278.3	/SS	SG = 2 SQ M, 2 REDDS
12	LP	00	311.3		COHO? FRY
14	LP	00	360.2		SG = 1 SQ M
15	RI	00	389.4		SG = 1 SQ M
16	LP	00	401.9		SG = 1 SQ M
17	LP	00	429.7		SG = 1 SQ M
19	LP	00	480.4		ACTIVE L. BANK EROSION
20	RI	00	505.9		SG = 2 SQ M
22	LP	01	572.3	SS/	SG = 2 SQ M, 2 REDDS
23	PD	02	572.3		COHO FRY
24	LP	00	597.7		SG = 1 SQ M, COHO FRY