

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

STREAM: Cherry Creek (MC-15)
BASIN: Alsea River
SURVEY TYPE: Post-Tx
DATE: February 1, 2001
SURVEY CREW: Eric Brown, Joe Zuccarello
REPORT PREPARED BY: Paul Jacobsen
BASIN AREA: 4.4 km²
USGS MAPS: Five Rivers
ECOREGION: Coast Range Sedimentary

GENERAL DESCRIPTION:

The Cherry Creek habitat survey extended 556 meters. The channel was constrained by hillslopes in a moderate V-shaped valley. The average valley width index was 1.6 (range: 1.2 – 2.2). Land use for the reach was second growth (15-30 cm dbh) trees. The average unit gradient was 1.2 percent. Scour pools (48%) and riffles (25%) dominated stream habitat. Gravel (33%), sand (28%), and bedrock (25%) dominated stream substrate. Wood volume was low at 18.0 m³/100m.

COMMENTS:

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

The crew noted several habitat structures during the survey.

REACH SUMMARY

REACH 1

T14S-R10W-S36SE

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 avg: 1.6 range: 1.2-2.2

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	556	3,043	0
Secondary	21	44	0

Channel Dimensions (m)

<u>Wetted</u>		<u>Active</u>		<u>Floodprone</u>	<u>First Terrace</u>
Width	5.0	Width	7.9	11.4	12.3
Depth	0.38	Height	0.5	1.0	1.9
		W:D ratio	15.2	Entrenchment	1.5

Stream Flow Type: MF Water Temp: 6.0-6.0°C
 Avg. Unit Gradient: 1.2% Habitat Units/100m: 6.8

Riparian, Bank, and Wood Summary

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

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding	0%	Reach avg: 0%
Undercut Banks	0%	Range: 0- 0

Large Woody Debris

	<u>Total</u>	<u>Total/100m</u>
All pieces ($\geq 3m \times 0.15m$)	60	10.8
Volume (m ³)	100	18.0
Key pieces ($\geq 10m \times 0.6m$)	1	0.2

HABITAT UNIT SUMMARY

REACH 1

T14S-R10W-S36SE

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	Cbbl	Bldr	Bdrk
POOL-BACKWATER	1	21	2.1	0.35	44	0	0	75	15	10	0	0
POOL-BEAVER DAM	2	83	6.7	0.73	562	0	8	70	18	3	0	3
POOL-LATERAL SCOUR	12	184	5.1	0.62	984	0	16	30	26	5	0	23
POOL-PLUNGE	2	17	5.8	0.65	107	0	7	29	19	9	14	22
POOL-STRAIGHT SCOUR	4	53	7.2	0.56	398	0	8	21	25	3	1	43
RAPID/BEDROCK	2	25	5.4	0.03	137	0	0	3	0	0	0	97
RIFFLE	9	152	4.2	0.13	660	0	4	17	58	2	0	19
RIFFLE W/ POCKETS	1	26	4.3	0.20	113	0	20	50	30	0	0	0
STEP/BEAVER DAM	1	2	5.9	0.03	11	0	80	20	0	0	0	0
STEP/BEDROCK	1	2	2.3	0.10	5	0	0	0	0	0	0	100
STEP/COBBLE	1	5	6.1	0.05	29	0	5	5	85	5	0	0
STEP/LOG	2	1	2.5	0.10	3	0	0	30	70	0	0	0
STEP/STRUCTURE	1	6	6.5	0.20	36	0	10	65	10	5	10	0
Total:	39	577	5.0	0.38	3,087	0	Avg:11	28	33	3	1	25

HABITAT SUMMARY

Habitat Group	No. Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area (m ²)	Percent	Large Boulders Number	Boulders #/100m ²
Dammed & BW Pools	3	104	5.2	0.60	606	19.63	0	0.0
Scour Pools	18	254	5.7	0.61	1,489	48.23	0	0.0
Glides	0	0	-	-	0	0.00	0	0.0
Riffles	10	178	4.2	0.14	772	25.02	0	0.0
Rapids	2	25	5.4	0.03	137	4.43	0	0.0
Cascades	0	0	-	-	0	0.00	0	0.0
Step/Falls	6	16	4.3	0.10	83	2.69	0	0.0
Dry	0	0	-	-	0	0.00	0	0.0

POOL SUMMARY

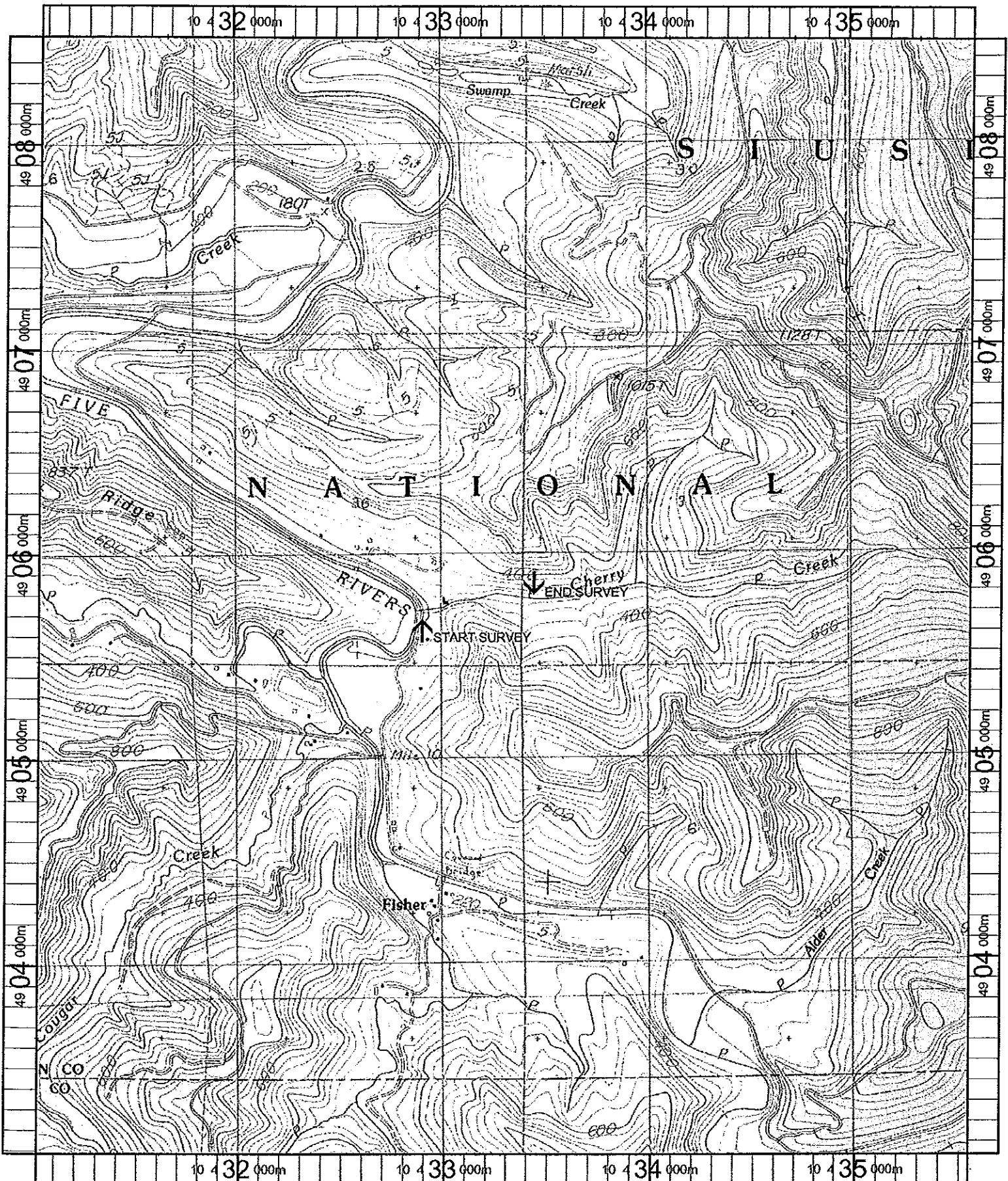
All Pools	<u>Total</u>	<u>#/Km</u>
	21	36.4
Pools ≥1m deep:	0	0.0
Complex pools (LWD pieces ≥3):	6	10.4
Pool Frequency (channel widths/pool):	3.5	
Residual pool depth (avg)	0.48m	

STREAM SUMMARY

CHERRY CREEK POST-TX

Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Total Area (m ²)	Substrate						Total Large Boulder
					S/O	Percent Wetted Area					
					Sand	Grvl	Cbbl	Bldr	Bdrk		
39	577	5.0	0.38	3,087	11	28	33	3	1	25	0

Habitat Group	Wetted Area	
	(m ²)	Percent
Scour Pool	1,489	48.2
Backwater Pools	606	19.6
Glide	0	0.0
Riffle	772	25.0
Rapid	137	4.4
Cascade	0	0.0
Step	83	2.7
Dry	0	0.0



Name: FIVE RIVERS
 Date: 11/1/100
 Scale: 1 inch equals 2000 feet

Location: 10 433206 E 4905768 N
 Caption: CHERRY CREEK RESTORATION SITE - ALSEA BASIN