

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

STREAM: Cherry Creek (MC-15)
BASIN: Alsea River
SURVEY TYPE: Pre-Tx
DATE: January 25, 2000
SURVEY CREW: SG, JJ
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 553 meters. The channel was constrained by hillslopes in a moderate V-shaped valley. The average valley width index was 2.3 (range: 1.5 – 2.6). Land use for the reach was timber harvest and young (3-15 cm dbh) trees. The average unit gradient was 1.8 percent. Scour pools (55%) and riffles (37%) dominated stream habitat. Gravel (41%) and bedrock (29%) dominated stream substrate. Wood volume was low at 18.5 m³/100m.

COMMENTS:

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

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	2.3	VWI Range:	1.5 - 2.6

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	553	2,613	0
Secondary	111	158	0

Channel Dimensions (m)

<u>Wetted</u>		<u>Active</u>		<u>Floodprone</u>	<u>First Terrace</u>
Width	4.1	Width	5.9	13.0	7.2
Depth	0.57	Height	0.8	1.5	1.0
		W:D ratio	8.1	Entrenchment	2.3
Stream Flow Type:	MF	Water temp (C):		8.5	- 8.5
Avg. Unit Gradient:	1.8%	Habitat Units/100m:		7.6	

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	TH	YT
Riparian Vegetation:	D15	M15

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):	85	15.4
Volume (m ³):	102	18.4
Key pieces (>=10m x 0.60m):	4	0.7

OREGON DEPARTMENT OF FISH AND WILDLIFE

CHERRY CREEK (PRE-TX)

HABITAT INVENTORY

Report Date: 11/12/03

Survey Date:

1/25/00

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	Cbl	Bldr	Bdrk	
CASCADE/BEDROCK	2	16	0.6	0.10	7	0	0	0	0	0	0	0	100
GLIDE	1	23	2.5	0.30	58	0	50	50	0	0	0	0	0
POOL-ALCOVE	1	16	3.0	0.60	48	0	95	0	5	0	0	0	0
POOL-BACKWATER	1	6	2.0	0.70	12	0	95	5	0	0	0	0	0
POOL-DAMMED	1	12	4.0	1.00	48	0	0	15	85	0	0	0	0
POOL-LATERAL SCOUR	9	155	4.2	0.87	742	0	4	16	53	2	0	0	26
POOL-PLUNGE	4	59	5.1	0.78	258	0	0	3	21	6	3	68	68
POOL-STRAIGHT SCOUR	7	108	4.8	0.81	535	0	6	19	39	1	1	35	35
RIFFLE	11	203	3.6	0.26	744	0	0	13	69	8	0	9	9
RIFFLE W/ POCKETS	2	61	4.8	0.40	285	0	0	0	15	5	3	78	78
STEP/LOG	3	6	6.2	0.27	34	0	100	0	0	0	0	0	0
Total:	42	664	4.1	0.57	2,771	0	Avg 15	12	41	3	1	29	

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	3	34	3.0	0.77	108	3.90%	0	0.0
Scour Pools	20	321	4.6	0.83	1,535	55.41%	0	0.0
Glides	1	23	2.5	0.30	58	2.07%	0	0.0
Riffles	13	264	3.7	0.28	1,029	37.13%	0	0.0
Rapids	0	0			0	0.00%	0	0.0
Cascades	2	16	0.6	0.10	7	0.26%	0	0.0
Step/Falls	3	6	6.2	0.27	34	1.23%	0	0.0
Dry	0	0			0	0.00%	0	0.0
Culverts	0	0			0	0.00%	0	0.0

POOL SUMMARY

	Total	# / Km
All Pools:	23	41.6
Pools >=1m deep:	6	10.9
Complex pools (LWD pieces>=3):	6	10.9
Pool frequency (channel widths/pool):	4.9	
Residual pool depth (avg):	0.53	

STREAM SUMMARY

CHERRY CREEK (PRE-TX)

Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Total Area (m ²)	Substrate Percent Wetted Area						Large Boulders (#>0.5m)
					S/O	Snd	Grvl	Cbl	Bldr	Bdrk	
42	664	4.1	0.57	2,771	15	12	41	3	1	29	

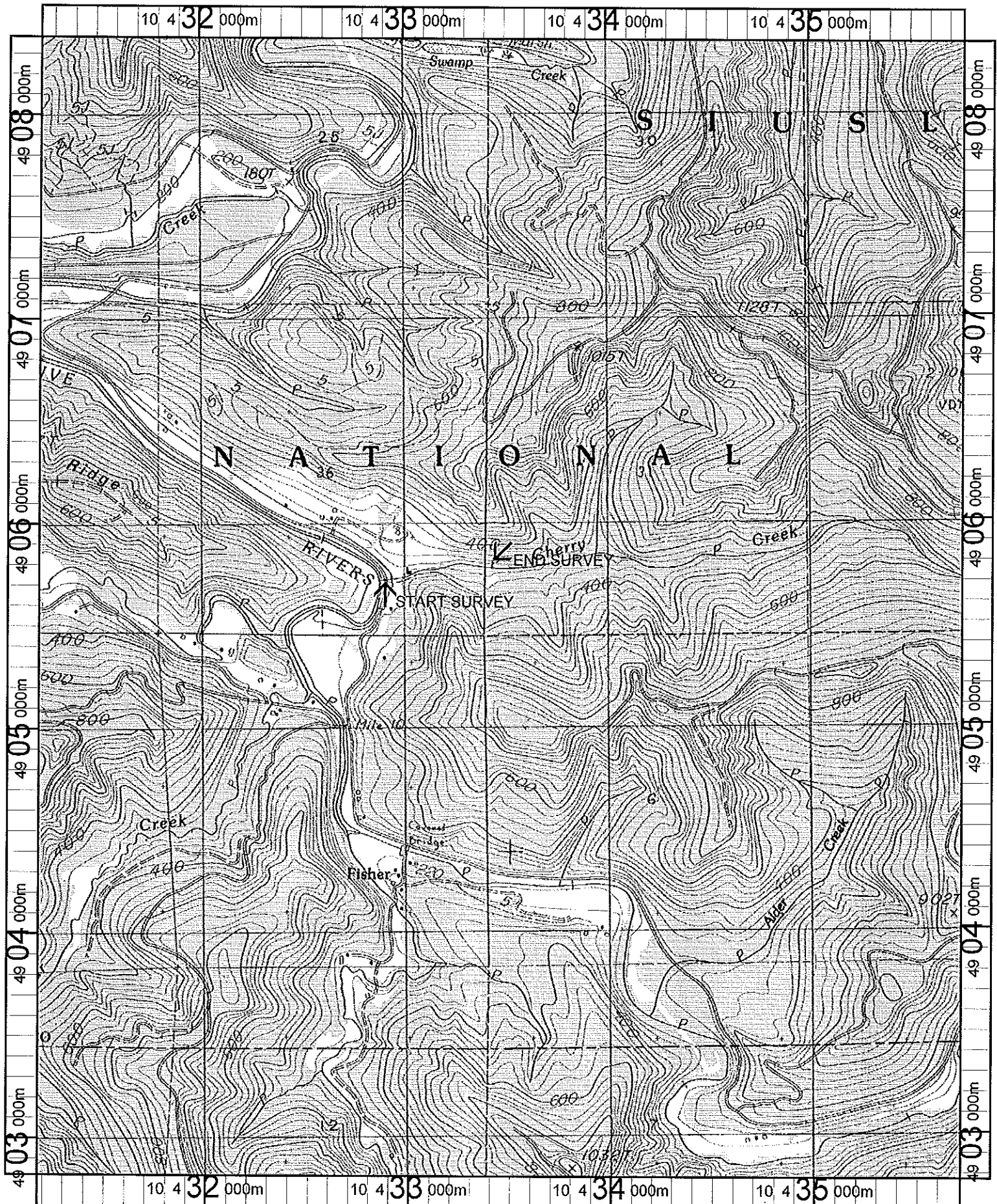
Habitat Group	Wetted Area	
	(m ²)	Percent
Dammed & BW Pools	108	3.90%
Scour Pools	1,535	55.41%
Glides	58	2.07%
Riffles	1,029	37.13%
Rapids	0	0.00%
Cascades	7	0.26%
Step/Falls	34	1.23%
Dry	0	0.00%
Culverts	0	0.00%

Comment Summary

Restoration Monitoring Sites 2003

MONITORING AREA: 2-MC SITE ID: 15 CHERRY CREEK (PRE-TX)

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
1	RI	00	14.5			STRT U/S OF CULVERT,SI
2	SL	00	15.2			H=1.4, THEY GOT A SLOP
3	SP	01	23.7	SS/		
4	RI	11	23.7	/TJ		
7	LP	00	61.9	SS/		VWI= 2.5
10	SL	00	98.7			H= 1.9
17	RI	11	188.1	TJ/		
22	SP	00	277.6			CONS BY HILLSLOPE?1.5
24	SL	00	284.6			H= 1.4
30	LP	01	386.6	SS/		
31	CR	11	386.6	TJ/		
34	RP	00	455.6	SS/		VWI=2.6
37	PP	00	508.1	SS/		
39	SP	00	532.1	SS/		VWI= 2.4
41	PP	01	552.5			END @PP W/TRIB R. BAN



Name: FIVE RIVERS
 Date: 10/13/100
 Scale: 1 inch equals 2000 feet

Location: 10 43372 E 4905560 N
 Caption: CHERRY CREEK RESTORATION SITE

Alsea basin