

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

STREAM: Wood Creek (U-65)
BASIN: Umpqua River
SURVEY TYPE: Post-Tx
DATE: February 20, 2001
SURVEY CREW: Andrew Gross, David Hering
REPORT PREPARED BY: Paul Jacobsen
BASIN AREA: 8.4 km²
USGS MAPS: McCullough Creek
ECOREGION: Coast Range Klamath Siskiyou

GENERAL DESCRIPTION:

The Wood Creek habitat survey extended 497 meters. The channel was constrained by terraces in a broad valley floor. The average valley width index was 9.6 (range: 8.0 – 10.0). Land use for the reach was second growth (15-30 cm dbh) and large (30-50 cm dbh) trees. The average unit gradient was 4.4 percent. Rapids (68%) dominated stream habitat. Gravel (47%) and cobble (27%) dominated stream substrate. Wood volume was high at 37.6 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

T32S-R6W-S16NE

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	0	Multiple Terraces	100
Open V-shape	0	Wide Floodplain	0

Valley Width Index avg: 9.6 range: 8.0-10.0

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	497	1,565	0
Secondary	18	26	0

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u>	<u>First Terrace</u>
Width 3.1	4.4	7.9	7.6
Depth 0.27	Height 0.5	1.1	1.3
	W:D ratio 8.1	Entrenchment 1.8	

Stream Flow Type: MF Water Temp: 6.0-6.0°C
 Avg. Unit Gradient: 4.4% Habitat Units/100m: 6.8

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	ST	LT
Riparian Vegetation:	D15	S

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 (≥3m x 0.15m)	99	19.9
Volume (m ³)	187	37.6
Key pieces (≥10m x 0.6m)	1	0.2

HABITAT UNIT SUMMARY

REACH 1 T32S-R6W-S16NE 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
CASCADE/BOULDERS	3	33	2.1	0.13	76	0	2	10	50	33	5	0
CULVERT CROSSING	1	12	3.1	0.10	38	0	0	10	45	5	0	40
POOL-LATERAL SCOUR	8	66	3.5	0.50	217	0	10	23	39	27	1	0
POOL-PLUNGE	3	14	3.8	0.55	54	0	9	25	44	15	3	4
POOL-STRAIGHT SCOUR	1	7	2.9	0.50	19	0	10	35	35	20	1	0
RAPID/BOULDERS	14	352	3.0	0.15	1,080	0	1	11	49	35	4	0
RIFFLE	1	25	3.4	0.15	85	0	5	15	40	40	0	0
STEP/COBBLE	1	4	3.8	0.15	16	0	10	10	60	10	0	10
STEP/LOG	3	2	2.2	0.08	4	0	5	20	67	8	0	0
Total:	35	515	3.1	0.27	1,590	0	Avg: 5	16	47	27	3	2

HABITAT SUMMARY

Habitat Group	No. Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area (m ²)	Wetted Area Percent	Large Boulders Number	Boulders #/100m ²
Dammed & BW Pools	0	0	-	-	0	0.00	0	0.0
Scour Pools	12	86	3.5	0.51	290	18.25	0	0.0
Glides	0	0	-	-	0	0.00	0	0.0
Riffles	1	25	3.4	0.15	85	5.36	0	0.0
Rapids	14	352	3.0	0.15	1,080	67.92	0	0.0
Cascades	3	33	2.1	0.13	76	4.80	0	0.0
Step/Falls	4	6	2.6	0.10	21	1.30	0	0.0
Dry	0	0	-	-	0	0.00	0	0.0

POOL SUMMARY

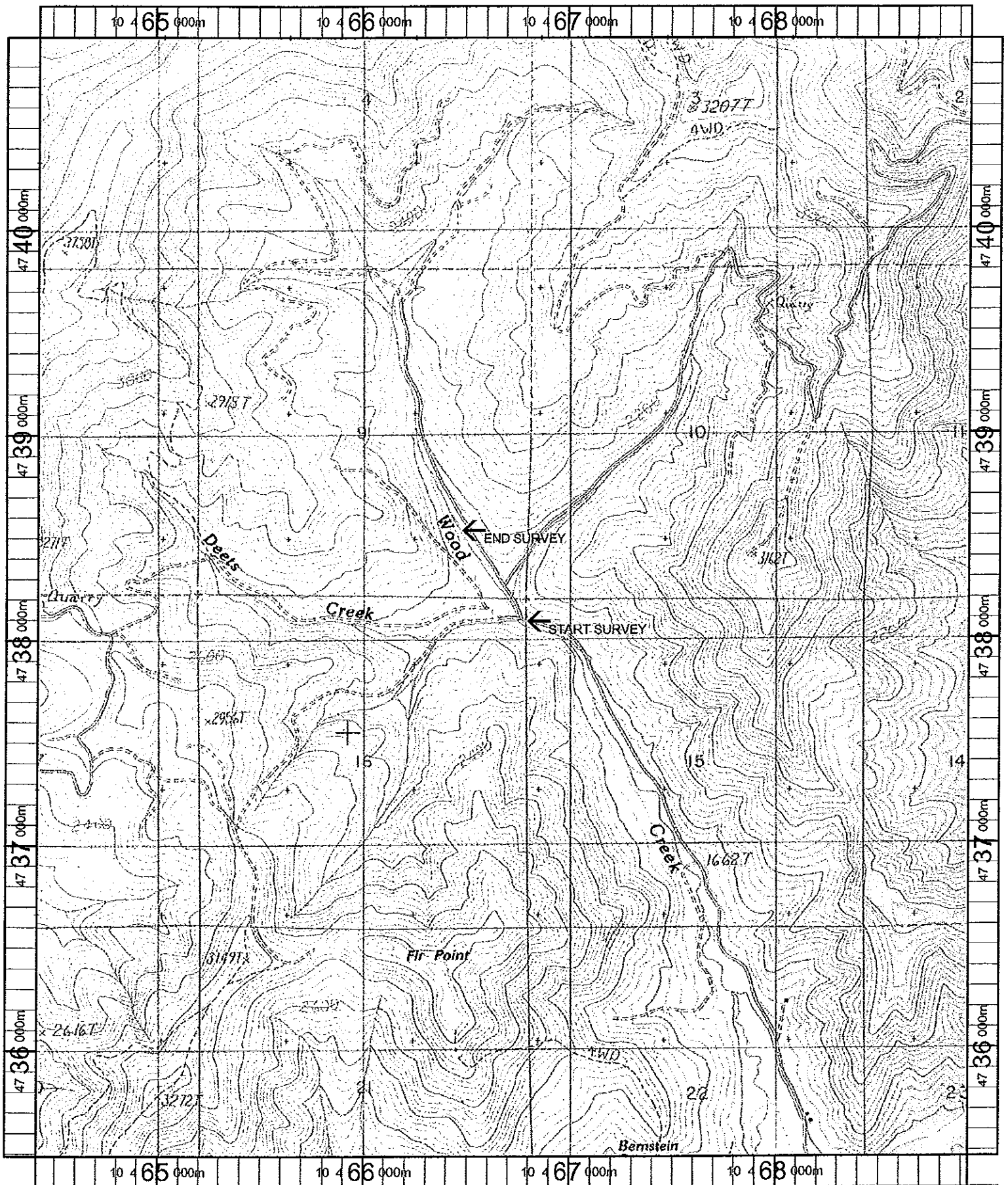
All Pools	<u>Total</u>	<u>#/Km</u>
	12	23.3
Pools ≥1m deep:	0	0.0
Complex pools (LWD pieces ≥3):	3	5.8
Pool Frequency (channel widths/pool):	9.8	
Residual pool depth (avg)	0.38m	

STREAM SUMMARY

WOOD CREEK POST-TX

Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Total Area (m ²)	Substrate Percent Wetted Area						Total Large Boulder
					S/O	Sand	Grvl	Cbbl	Bldr	Bdrk	
35	515	3.1	0.27	1,590	5	16	47	27	3	2	0

Habitat Group	Wetted Area	
	(m ²)	Percent
Scour Pool	290	18.2
Backwater Pools	0	0.0
Glide	0	0.0
Riffle	85	5.4
Rapid	1,080	67.9
Cascade	76	4.8
Step	21	1.3
Dry	0	0.0



Name: MC CULLOUGH CREEK
 Date: 11/7/100
 Scale: 1 inch equals 2000 feet

Location: 10 466584 E 4738191 N
 Caption: WOOD CREEK RESTORATION SITE - UMPQUA BASIN