

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

STREAM: Wood Creek (U-65)  
BASIN: Umpqua River  
SURVEY TYPE: Pre-Tx  
DATE: March 6, 2000  
SURVEY CREW: Clark Watly, Brent Crowe  
REPORT PREPARED BY: Paul Jacobsen  
BASIN AREA: 8.4 km<sup>2</sup>  
USGS MAPS: McCullough Creek  
ECOREGION: Coast Range Klamath Siskiyou

**GENERAL DESCRIPTION:**

The Wood Creek habitat survey extended 500 meters. The channel was unconstrained 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) trees. The average unit gradient was 3.7 percent. Cascades (55%) and rapids (23%) dominated stream habitat. Gravel (32%) and cobble (32%) dominated stream substrate. Wood volume was high at 44.2 m<sup>3</sup>/100m.

**COMMENTS:**

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

REACH 1

T32S-R6W-S16NW

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	9.6	VWI Range:	8 - 10

Channel Morphology (Percent Reach Length)

<u>Constrained</u>		<u>Unconstrained</u>	
Hillslope	0%	Single Channel	100%
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	500	1,658	0
Secondary	27	40	0

Channel Dimensions (m)

<u>Wetted</u>		<u>Active</u>		<u>Floodprone</u>	<u>First Terrace</u>
Width	3.2	Width	5.4	13.1	15.6
Depth	0.34	Height	0.5	1.1	1.7
		W:D ratio	10.1	Entrenchment	2.4

Stream Flow Type: MF      Water temp (C): 7.5 - 7.5  
 Avg. Unit Gradient: 3.7%      Habitat Units/100m: 8.0

**Riparian, Bank, and Wood Summary**

	<u>Primary</u>	<u>Secondary</u>
Land Use:	ST	
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):	82	16.4
Volume (m <sup>3</sup> ):	221	44.2
Key pieces (>=10m x 0.60m):	23	4.6

OREGON DEPARTMENT OF FISH AND WILDLIFE

WOOD CREEK PRE-TX (U-65)

HABITAT INVENTORY

Report Date: 11/12/03

Survey Date:

3/6/00

REACH 1		T32S-R6W-S16NW					REACH 1					
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
CASCADE/BOULDERS	14	292	3.2	0.23	935	0	0	9	26	38	26	0
GLIDE	1	14	3.7	0.32	51	0	5	20	40	30	5	0
POOL-BACKWATER	5	12	1.6	0.27	19	0	22	34	36	4	4	0
POOL-DAMMED	1	8	2.4	0.50	19	0	10	20	40	30	0	0
POOL-LATERAL SCOUR	4	39	3.0	0.57	120	0	6	23	31	36	4	0
POOL-PLUNGE	4	21	4.1	0.66	85	0	1	14	33	33	20	0
POOL-STRAIGHT SCOUR	2	15	3.3	0.69	48	0	3	18	40	30	10	0
RAPID/BOULDERS	5	113	3.5	0.25	395	0	0	11	29	42	18	0
RIFFLE	1	12	1.2	0.07	15	0	10	20	40	30	0	0
STEP/LOG	3	2	4.7	0.15	10	0	10	13	43	33	0	0
<b>Total:</b>	<b>40</b>	<b>528</b>	<b>3.2</b>	<b>0.34</b>	<b>1,697</b>	<b>0</b>	<b>Avg 5</b>	<b>16</b>	<b>32</b>	<b>32</b>	<b>15</b>	<b>0</b>

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	6	20	1.7	0.31	38	2.25%	0	0.0
Scour Pools	10	75	3.5	0.63	253	14.93%	0	0.0
Glides	1	14	3.7	0.32	51	3.01%	0	0.0
Riffles	1	12	1.2	0.07	15	0.87%	0	0.0
Rapids	5	113	3.5	0.25	395	23.26%	0	0.0
Cascades	14	292	3.2	0.23	935	55.10%	0	0.0
Step/Falls	3	2	4.7	0.15	10	0.59%	0	0.0
Dry	0	0			0	0.00%	0	0.0
Culverts	0	0			0	0.00%	0	0.0

POOL SUMMARY		
	<u>Total</u>	<u># / Km</u>
All Pools:	16	32.0
Pools >=1m deep:	0	0.0
Complex pools (LWD pieces>=3):	2	4.0
Pool frequency (channel widths/pool):	6.1	
Residual pool depth (avg):	0.43	

**STREAM SUMMARY**

**WOOD CREEK PRE-TX (U-65)**

Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Total Area (m <sup>2</sup> )	Substrate						Large Boulders (#>0.5m)
					Percent Wetted Area						
					S/O	Snd	Grvl	Cbl	Bldr	Bdrk	
40	528	3.2	0.34	1,697	5	16	32	32	15	0	

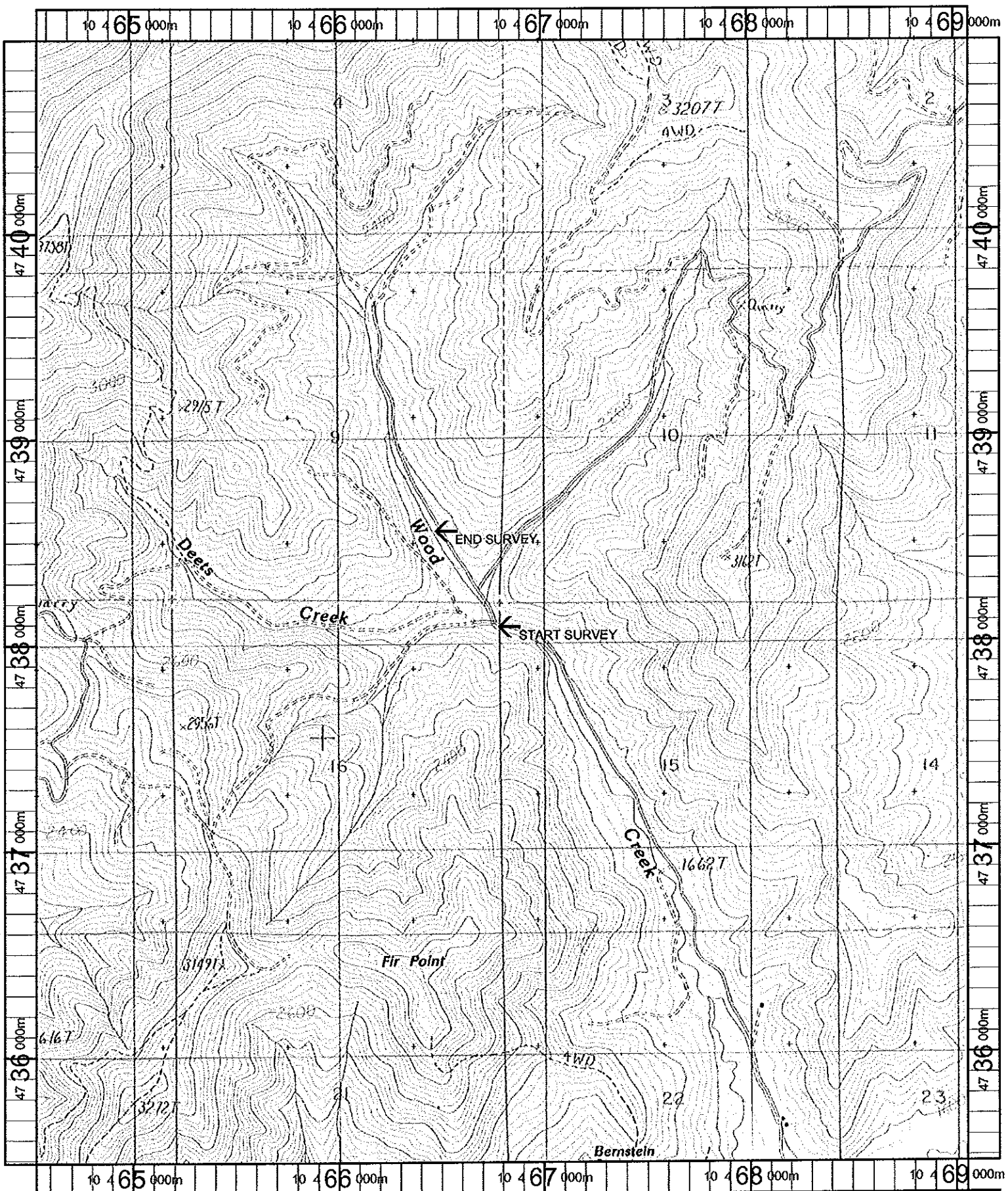
Habitat Group	Wetted Area	
	(m <sup>2</sup> )	Percent
Dammed & BW Pools	38	2.25%
Scour Pools	253	14.93%
Glides	51	3.01%
Riffles	15	0.87%
Rapids	395	23.26%
Cascades	935	55.10%
Step/Falls	10	0.59%
Dry	0	0.00%
Culverts	0	0.00%

# Comment Summary

## Restoration Monitoring Sites 2003

MONITORING AREA: 4-UM SITE ID: 65 WOOD CREEK PRE-TX (U-65)

<u>UNIT#</u>	<u>TYPE</u>	<u>CHAN</u>	<u>DIST. (m)</u>	<u>COMMENTS</u>	<u>NOTE ESTIMATOR</u>	<u>NOTE NUMERATOR</u>
2	SP	00	18.1			VWI= 10
10	CB	01	114.9	/TJ		
13	CB	00	151			VWI= 10
15	SL	00	157.4			H= 0.6
20	SL	00	219.3			H= 0.70
25	LP	00	260.6			VWI= 10
29	PP	01	337.1	DJ		
34	RB	00	395.7			VWI= 10
39	CB	01	500.3	SS/		VWI= 8



Name: MC CULLOUGH CREEK  
 Date: 10/16/100  
 Scale: 1 inch equals 2000 feet

Location: 10 466706 E 4738190 N  
 Caption: WOOD CREEK RESTORATION SITE  
*Umpyre barn*