

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: July 2, 2007
SURVEY CREW: Jim Deshler, Stephanie McCary
REPORT PREPARED BY: Paul Jacobsen
BASIN AREA: 8.4 km²
USGS MAPS: McCullough Creek
ECOREGION: Klamath Mountains Inland Siskiyou

GENERAL DESCRIPTION:

The Wood Creek habitat survey extended 508 meters. The channel was constrained by terraces in a broad valley floor. The average valley width index was 20.0. Land use for the reach was young (3-15 cm dbh) trees. The average unit gradient was 5.8 percent. Cascades (86%) dominated stream habitat. Cobble (38%) and gravel (37%) dominated stream substrate. Wood volume was high at 40.3 m³/100m.

COMMENTS:

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

OREGON DEPT OF FISH AND WILDLIFE

WOOD CREEK POST-TX (4-UWP, 65)

HABITAT INVENTORY

Report Date: 11/14/2007

Survey Date:

7/5/2007

REACH 1		T32S-R06W-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	Cbl	Bldr	Bdrk
CASCADE/BOULDERS	23	485	2.2	0.16	1,088	47	2	12	37	40	9	0
CULVERT CROSSING	1	13	3.5	1.20	45	0	0	5	40	50	5	0
POOL-LATERAL SCOUR	4	29	3.1	0.55	88	2	1	19	38	38	4	0
POOL-PLUNGE	1	4	2.3	0.90	9	0	0	21	47	32	0	0
PUDDLED UNIT	1	25	0.4	0.02	10	0	53	18	29	0	0	0
RIFFLE	1	7	1.2	0.02	8	0	0	5	55	40	0	0
STEP/BOULDERS	1	1	1.5	0.02	2	1	0	0	10	10	80	0
STEP/LOG	2	3	3.7	0.10	16	1	0	15	38	44	3	0
Total:	34	567	2.3	0.25	1,265	51	Avg: 3	13	37	38	9	0

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	0	0			0	0.00%	0	0.0	
Scour Pools	5	33	2.9	0.62	97	7.67%	2	2.1	
Glides	0	0			0	0.00%	0	0.0	
Riffles	1	7	1.2	0.02	8	0.64%	0	0.0	
Rapids	0	0			0	0.00%	0	0.0	
Cascades	23	485	2.2	0.16	1,088	85.99%	47	4.3	
Step/Falls	3	4	3.0	0.07	17	1.38%	2	11.5	
Dry	1	25	0.4	0.02	10	0.79%	0	0.0	
Culverts	1	13	3.5	1.20	45	3.54%	0	0.0	

POOL SUMMARY			
	Total of all Channel Lengths		Primary Channel Length
	<u>Total</u>	<u># / Km</u>	<u># / Km</u>
All Pools:	5	8.8	9.8
Pools >=1m deep:	0	0.0	0.0
Complex pools (LWD pieces>=3):	2	3.5	3.9
Pool frequency (channel widths/pool):	34.4		
Residual pool depth (avg):	0.51		

Survey Date 7/5/2007
Report Date: 11/7/2007

**RIPARIAN ZONE
VEGETATION SUMMARY**

REACH 1

Summary of Riparian Zone (0-30m) 3 transects

Total hardwoods/1000	569
Total conifers/1000 ft	569
Total conifers >20" dbh/1000 ft	41
Total conifers >35" dbh/1000 ft	0

Average number of trees in a 5-meter wide band

Diameter class (cm)	Zone 1 0-10 meters		Zone 2 10 - 20 meters		Zone 3 20 - 30 meters		Zones 1-3 0-30 meters	
	Conifer	Hardwood	Conifer	Hardwood	Conifer	Hardwood	Conifer	Hardwood
3-15cm	0.0	4.7	3.7	1.0	1.3	0.7	5.0	6.3
15-30cm	1.0	1.0	2.0	0.0	0.0	0.7	3.0	1.7
30-50cm	0.0	0.7	0.3	0.0	0.3	0.0	0.7	0.7
50-90cm	0.0	0.3	0.7	0.0	0.0	0.3	0.7	0.7
>90cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total/100m2	1.0	6.7	6.7	1.0	1.7	1.7	3.1	3.1

Canopy closure and ground cover

	Zone 1 0-10 meters		Zone 2 10 - 20 meters		Zone 3 20 - 30 meters	
	(%)		(%)		(%)	
Canopy closure	90		64		58	
Shrub cover	68		37		57	
Grass/forb cover	33		63		43	

Predominant landform in each zone

	Zone 1 0-10 meters		Zone 2 10 - 20 meters		Zone 3 20 - 30 meters	
	(%)		(%)		(%)	
Hillslope	17		17		33	
High terrace	83		67		67	
Low terrace	0		0		0	
Floodplain	0		0		0	
Wetland/meadow	0		0		0	
Stream channel	0		0		0	
Roadbed/Railroad	0		17		0	
Riprap	0		0		0	
Surface slope (%)	6		5		13	

Summary of Riparian Zone (0-30m) for all reaches

3 transects

Summary of riparian zone (0-100 feet) extrapolated to 1,000 feet along stream

Total hardwoods/1000	569
Total conifers/1000 ft	569
Total conifers >20" dbh/1000 ft	41
Total conifers >35" dbh/1000 ft	0

Average number of trees in a 5-m wide band

Diameter class (cm)	Zones 1-3	
	<u>0-30 meters</u>	
	<u>Conifer</u>	<u>Hardwood</u>
3-15cm	5.0	6.3
15-30cm	3.0	1.7
30-50cm	0.7	0.7
50-90cm	0.7	0.7
>90cm	0.0	0.0

RIPARIAN ZONE VEGETATION

Reach 1

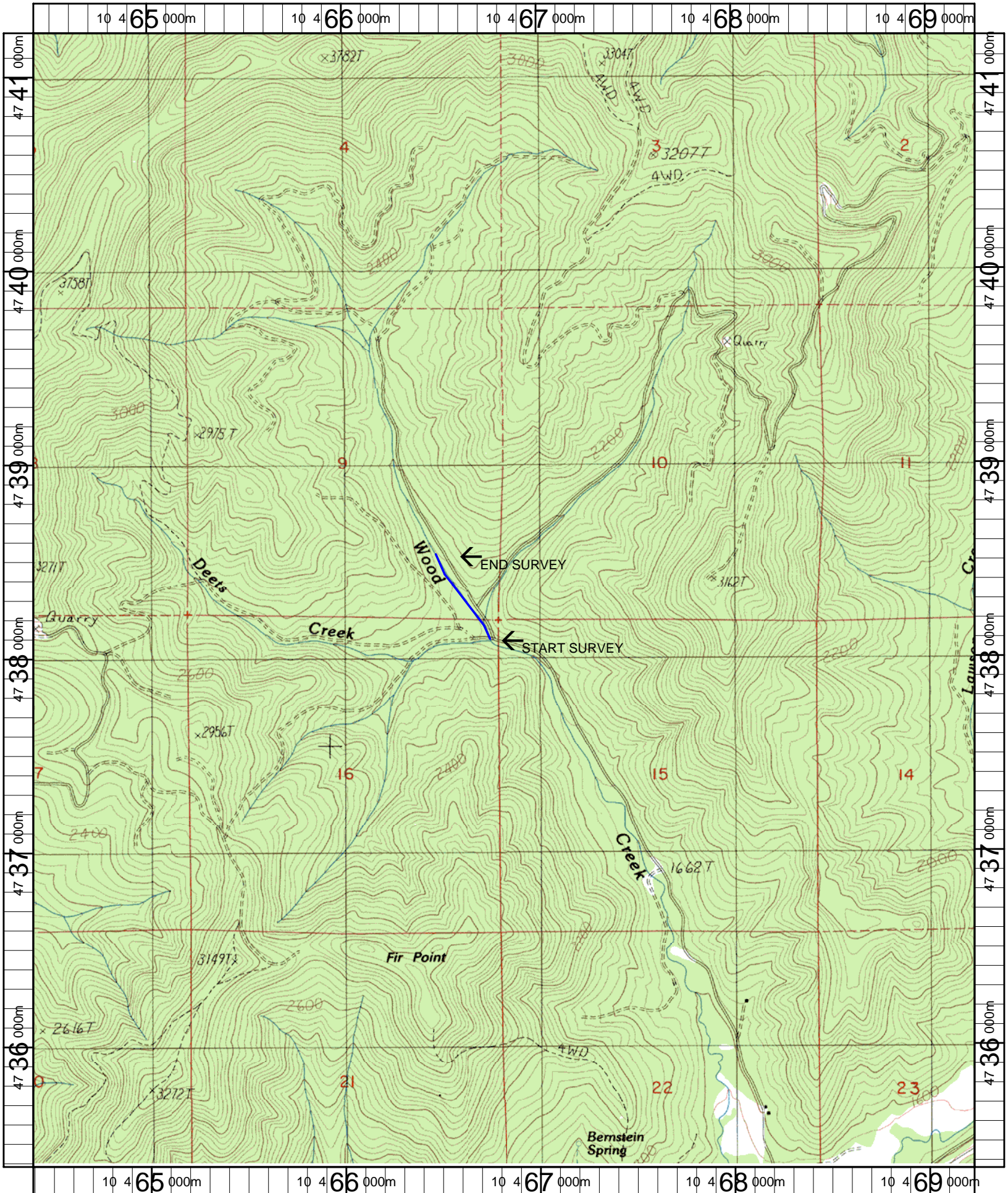
Reach 1

Unit	Side	Zone	Surface	Slope	Cover (percent)			Diameter class (cm)					Notes	
					Canopy	Shrub	Grass	3-15	15-30	30-50	50-90	>90		
8	LT	1	HT	3	95	85	15	Conifer						
								Hardwood						
8	LT	2	HT	18	85	70	30	1	0			2		
								Conifer						
								Hardwood						
8	LT	3	HT	21	25	20	80	Conifer					CLEAR CUT	
								Hardwood						
8	RT	1	HT	0	85	80	20	Conifer						
								7				1		
8	RT	2	HT	0	15	0	100	Conifer						
								Hardwood						
8	RT	3	HT	0	55	30	70	Conifer						
								Hardwood						
19	LT	1	HS	5	100	85	15	0	Conifer					
								1	Hardwood					
19	LT	2	HS	9	95	25	75	7	1	Conifer				
								1	Hardwood					
19	LT	3	HS	20	65	65	35	Conifer						
								Hardwood						
19	RT	1	HT	19	60	40	60	0	1	Conifer				
								2	Hardwood					
19	RT	2	RB	5	20	10	90	Conifer						
								Hardwood						
19	RT	3	HS	34	50	90	10	2	Conifer					
								2	2	Hardwood				
26	LT	1	HT	0	100	30	70	Conifer						
								1	Hardwood					
26	LT	2	HT	-5	70	30	70	1	4	Conifer				
								Hardwood						
26	LT	3	HT	-2	55	45	55	1		1	Conifer			
								Hardwood						
26	RT	1	HT	6	100	85	15	Conifer						
								3	3	1	Hardwood			
26	RT	2	HT	2	100	85	15	2	1	Conifer				
								2	Hardwood					
26	RT	3	HT	3	95	90	10	1	Conifer					
								Hardwood					1	

COMMENT SUMMARY

MONITORING AREA: 4-UMP SITE ID: 65 STREAM: WOOD CREEK POST-TX

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTES
1	CC	00	12.8	CC	2M TALL CULVERT. PGS
9	CB	11	132.3		STOPPED AT CULVERT
16	CB	02	216.2		SMALL FISH PRESENT
20	CB	00	291.2		SNAKE (2) GARTER(?)
27	PD	11	378.9		JUST A TRICKLE



Name: MC CULLOUGH CREEK
 Date: 1/9/2007
 Scale: 1 inch equals 2000 feet

Location: 10 466823 E 4738294 N
 Caption: WOOD CREEK RESTORATION SITE - UMPQUA BASIN