

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

STREAM: Cedar Creek (N-13)
BASIN: Wilson River
SURVEY TYPE: Post-Tx
DATE: July 3, 2007
SURVEY CREW: Trevor Diemer, Nathan Wilson
REPORT PREPARED BY: Paul Jacobsen
BASIN AREA: 18.5 km²
USGS MAPS: Jordan Creek
ECOREGION: Coast Range Volcanic

GENERAL DESCRIPTION:

The Cedar Creek habitat survey extended 409 meters. The channel was alternately constrained by hillslopes and terraces in a broad valley floor. The average valley width index was 3.0 (range: 1.5-4.0). Land use for the reach was large (30-50 cm dbh) and young (3-15 cm dbh) trees. The average unit gradient was 2.0 percent. Rapids (45%), scour pools (27%) and riffles (22%) dominated stream habitat. Cobble (35%) and gravel (26%) dominated stream substrate. Wood volume was low at 14.5 m³/100m.

COMMENTS:

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

REACH 1

T01N-R07W-S07NE

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	100%
Moderate V-shape	0%	Multiple Terraces	0%
Open V-shape	0%	Wide Floodplain	0%
Valley Width Index	3.0	VWI Range:	1.5 - 4

Channel Morphology (Percent Reach Length)

<u>Constrained</u>		<u>Unconstrained</u>	
Hillslope	0%	Single Channel	0%
Bedrock	0%	Multiple Channel	0%
Terrace	0%	Braided Channel	0%
Alt. Terrace/Hill	100%		
Landuse	0%		

Channel Characteristics

<u>Type</u>	<u>Length (m)</u>	<u>Area (m2)</u>	<u>Dry Units</u>
Primary Channel	409	2,230	0
Secondary Channel	42	78	2
Off-Channel Units	5	20	0

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 4	<u>First Terrace</u> n = 1
Width: 4.8	Width: 11.6	16.0 (12 - 22)	23.0 (23 - 23)
Depth: 0.37	Height: 0.6	1.3 (1.2 - 1.3)	1.6 (1.6 - 1.6)

W:D ratio: 18.2
 Stream Flow Type: MF
 Average Unit Gradient: 2.0%
 Water temperature (°C): 14.0 - 14.0

Entrenchment (ACW:FPW ratio): 1.4
 Habitat Units/100m (total channel length): 4.8
 Habitat Units/100m (primary channel length): 5.4

Riparian, Bank, and Wood Summary

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

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding:	1%	Reach avg: 89%
Undercut Banks:	0%	Range: 64 - 100

Large Wood Debris

	<u>Total</u>	<u>Total / 100m primary channel</u>
All pieces (>=3m x 0.15m):	37	9.0
Volume (m ³):	59	14.5
Key pieces (>=12m x 0.60m):	1	0.2

HABITAT INVENTORY

Report Date: 11/14/2007

Survey Date:

7/3/2007

REACH 1		T01N-R07W-S07NE					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
DRY UNIT	1	12	1.0	0.00	12	0	0	10	40	40	10	0
POOL-BACKWATER	1	5	4.0	0.80	20	0	5	10	20	40	25	0
POOL-LATERAL SCOUR	8	123	5.1	0.67	638	25	11	21	27	27	10	4
PUDDLED UNIT	1	22	2.0	0.10	44	0	0	11	39	39	11	0
RAPID/BOULDERS	7	188	5.2	0.16	1,051	97	1	11	22	40	25	1
RIFFLE	3	100	4.7	0.17	515	32	2	19	27	38	14	2
STEP/COBBLE	1	6	8.0	0.20	48	5	0	5	21	47	26	0
Total:	22	456	4.8	0.37	2,328	159	Avg: 5	15	26	35	17	2

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	1	5	4.0	0.80	20	0.86%	0	0.0	
Scour Pools	8	123	5.1	0.67	638	27.41%	25	3.9	
Glides	0	0			0	0.00%	0	0.0	
Riffles	3	100	4.7	0.17	515	22.13%	32	6.2	
Rapids	7	188	5.2	0.16	1,051	45.13%	97	9.2	
Cascades	0	0			0	0.00%	0	0.0	
Step/Falls	1	6	8.0	0.20	48	2.06%	5	10.4	
Dry	2	34	1.5	0.05	56	2.41%	0	0.0	
Culverts	0	0			0	0.00%	0	0.0	

POOL SUMMARY			
	Total	Total of all Channel Lengths	
		# / Km	Primary Channel Length # / Km
All Pools:	9	19.7	22.0
Pools >=1m deep:	0	0.0	0.0
Complex pools (LWD pieces>=3):	2	4.4	4.9
Pool frequency (channel widths/pool):	4.4		
Residual pool depth (avg):	0.55		

**OREGON DEPARTMENT OF FISH AND WILDLIFE
HABITAT INVENTORY**

**CEDAR CREEK POST-TX
GCG: 1-NC SITE ID: 13**

**Survey Date 7/3/2007
Report Date: 11/7/2007**

**RIPARIAN ZONE
VEGETATION SUMMARY**

REACH 1

Summary of Riparian Zone (0-30m) 2 transects

Total hardwoods/1000	1859
Total conifers/1000 ft	30
Total conifers >20" dbh/1000 ft	0
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	3.0	0.0	1.5	0.0	3.5	0.0	8.0
15-30cm	0.0	6.5	0.0	3.5	0.0	5.5	0.0	15.5
30-50cm	0.0	5.5	0.0	0.5	0.5	1.0	0.5	7.0
50-90cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
>90cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total/100m2	0.0	15.0	0.0	5.5	0.5	10.0	0.2	10.2

Canopy closure and ground cover

	Zone 1 0-10 meters (%)	Zone 2 10 - 20 meters (%)	Zone 3 20 - 30 meters (%)
Canopy closure	95	64	78
Shrub cover	31	38	33
Grass/forb cover	59	45	53

Predominant landform in each zone

	Zone 1 0-10 meters (%)	Zone 2 10 - 20 meters (%)	Zone 3 20 - 30 meters (%)
Hillslope	50	25	75
High terrace	25	50	0
Low terrace	0	0	0
Floodplain	0	0	0
Wetland/meadow	0	0	0
Stream channel	0	0	0
Roadbed/Railroad	25	25	25
Riprap	0	0	0
Surface slope (%)	38	18	43

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

2 transects

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

Total hardwoods/1000	1859
Total conifers/1000 ft	30
Total conifers >20" dbh/1000 ft	0
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	0.0	8.0
15-30cm	0.0	15.5
30-50cm	0.5	7.0
50-90cm	0.0	0.0
>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	
1	LT	1	HT	0	95	35	65	Conifer					
								Hardwood					
									5	3			
1	LT	2	HT	0	95	40	60	Conifer					
								Hardwood					
								1	1				
1	LT	3	HS	65	95	30	70	Conifer					
								Hardwood					
								1	3				
1	RT	1	HS	75	95	25	75	Conifer					10T 0453814
								Hardwood					5048512,2D
								3	1	2			
1	RT	2	RB	0	40	30	30	Conifer					
								Hardwood					
								1	2	1			
1	RT	3	HS	45	85	35	65	Conifer					
								Hardwood					
								2	4	2			
22	LT	1	HS	75	95	30	60	Conifer					10T 0453415
								Hardwood					5048766, 2D
								3	3	0			
22	LT	2	HS	70	95	45	55	Conifer					
								Hardwood					
									3				
22	LT	3	HS	60	95	45	55	Conifer					
								Hardwood					
								3	2				
22	RT	1	RB	0	95	35	35	Conifer					
								Hardwood					
									4	6			
22	RT	2	HT	0	25	35	35	Conifer					
								Hardwood					
								1	1				
22	RT	3	RB	0	35	20	20	Conifer					
								Hardwood					
								1	2				

COMMENT SUMMARY

MONITORING AREA: 1-NC SITE ID: 13 STREAM: CEDAR CREEK POST-TX

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTES
1	RI	00	69		PHOTO 0265
15	LP	02	256		LOTS OF COHO WITH NO WHERE TO GO
17	RB	00	292		06 SUMMER SNORKEL SURVEY END POINT LEFT BANK
19	LP	00	355		KIDS DAMMED UP RIVER TO CREATE POOL
22	RB	00	409		END AT PARKING LOT NEXT TO BRIDGE

