

REACH 1

T25S-R9W-26NW

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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 avg: 2.1 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	651	4,085	0
Secondary	0	0	0

Channel Dimensions (m)

<u>Wetted</u>		<u>Active</u>		<u>Floodprone</u>	<u>First Terrace</u>
Width	5.2	Width	12.8	16.6	21.9
Depth	0.35	Height	0.6	1.1	2.1
		W:D ratio	24.1	Entrenchment	1.3

Stream Flow Type: MF Water Temp: 13.0-13.0°C  
 Avg. Unit Gradient: 1.0% Habitat Units/100m: 5.4

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	LT	MT
Riparian Vegetation:	C30	D15

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding	1%	Reach avg: 96%
Undercut Banks	1%	Range: 75-100

Large Woody Debris

	<u>Total</u>	<u>Total/100m</u>
All pieces ( $\geq 3m \times 0.15m$ )	38	5.8
Volume (m <sup>3</sup> )	75	11.5
Key pieces ( $\geq 10m \times 0.6m$ )	3	0.5

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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	Cbbl	Bldr	Bdrk
CULVERT CROSSING	1	14	4.8	0.15	69	0	0	0	56	0	0	44
POOL-DAMMED	6	225	7.4	0.66	1,572	17	14	25	31	8	5	18
POOL-LATERAL SCOUR	6	117	6.7	0.69	774	52	10	17	48	8	6	11
POOL-STRAIGHT SCOUR	2	49	8.0	0.80	391	7	13	15	51	10	8	3
RAPID/BEDROCK	2	40	6.8	0.15	313	0	0	0	0	0	100	0
RIFFLE	9	188	4.9	0.15	927	10	1	8	34	5	25	27
STEP/BEDROCK	1	2	6.6	0.08	12	0	0	0	0	0	100	0
STEP/COBBLE	1	5	1.2	0.10	6	0	0	0	0	100	0	0
STEP/STRUCTURE	7	10	1.8	0.07	20	60	0	0	0	6	94	0
<b>Total:</b>	<b>35</b>	<b>651</b>	<b>5.2</b>	<b>0.35</b>	<b>4,085</b>	<b>146</b>	<b>Avg: 5</b>	<b>10</b>	<b>27</b>	<b>8</b>	<b>36</b>	<b>13</b>

HABITAT SUMMARY

Habitat Group	No. Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area (m <sup>2</sup> )	Percent	Large Number	Boulders #/100m <sup>2</sup>
Dammed & BW Pools	6	225	7.4	0.66	1,572	38.48	17	1.1
Scour Pools	8	166	7.0	0.72	1,165	28.52	59	5.1
Glides	0	0	-	-	0	0.00	0	0.0
Riffles	9	188	4.9	0.15	927	22.70	10	1.1
Rapids	2	40	6.8	0.15	313	7.67	0	0.0
Cascades	0	0	-	-	0	0.00	0	0.0
Step/Falls	9	18	2.3	0.08	39	0.95	60	155.0
Dry	0	0	-	-	0	0.00	0	0.0

POOL SUMMARY

All Pools	<u>Total</u>	<u>#/Km</u>
	14	21.5
Pools ≥1m deep:	1	1.5
Complex pools (LWD pieces ≥3):	6	9.2
Pool Frequency (channel widths/pool):	3.6	
Residual pool depth (avg)	0.61m	

STREAM SUMMARY

NORTH FORK BOTTOM CR (PRE-TX)

Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Total Area (m <sup>2</sup> )	Substrate Percent Wetted Area						Total Large Boulder
					S/O	Sand	Grvl	Cbbl	Bldr	Bdrk	
35	651	5.2	0.35	4,085	5	10	27	8	36	13	146

Wetted Area

Habitat Group	(m <sup>2</sup> )	Percent
Scour Pool	1,165	28.5
Backwater Pools	1,572	38.5
Glide	0	0.0
Riffle	927	22.7
Rapid	313	7.7
Cascade	0	0.0
Step	39	0.9
Dry	0	0.0

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RIPARIAN ZONE VEGETATION SUMMARY

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

Total hardwoods/1000 ft	813
Total conifers/1000 ft	671
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	3.3	1.0	0.3	1.7	1.3	2.7	5.0
15-30cm	0.0	4.0	2.7	0.3	4.0	1.7	6.7	6.0
30-50cm	0.0	1.3	0.3	0.3	1.3	0.7	1.7	2.3
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/100m <sup>2</sup>	0.0	8.7	4.0	1.0	7.0	3.7	3.7	4.4

Canopy closure and ground cover

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
	(%)		(%)		(%)	
Canopy closure	80		83		97	
Shrub cover	20		7		8	
Grass/forb cover	55		30		29	

Predominant landform in each zone

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
Hillslope	67		50		100	
High terrace	17		0		0	
Low terrace	17		0		0	
Floodplain	0		0		0	
Wetland/meadow	0		0		0	
Stream channel	0		0		0	
Roadbed/Railroad	0		50		0	
Riprap	0		0		0	
Surface slope (%)	28		35		83	

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

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

Total hardwoods/1000 ft	813
Total conifers/1000 ft	671
Total conifers >20" dbh/1000 ft	0

Average number of trees in a 5-meter wide band

<u>Diameter</u> <u>class (cm)</u>	<u>Zones 1-3</u>	
	<u>Conifer</u>	<u>Hardwood</u>
3-15cm	2.7	5.0
15-30cm	6.7	6.0
30-50cm	1.7	2.3
50-90cm	0.0	0.0
>90cm	0.0	0.0

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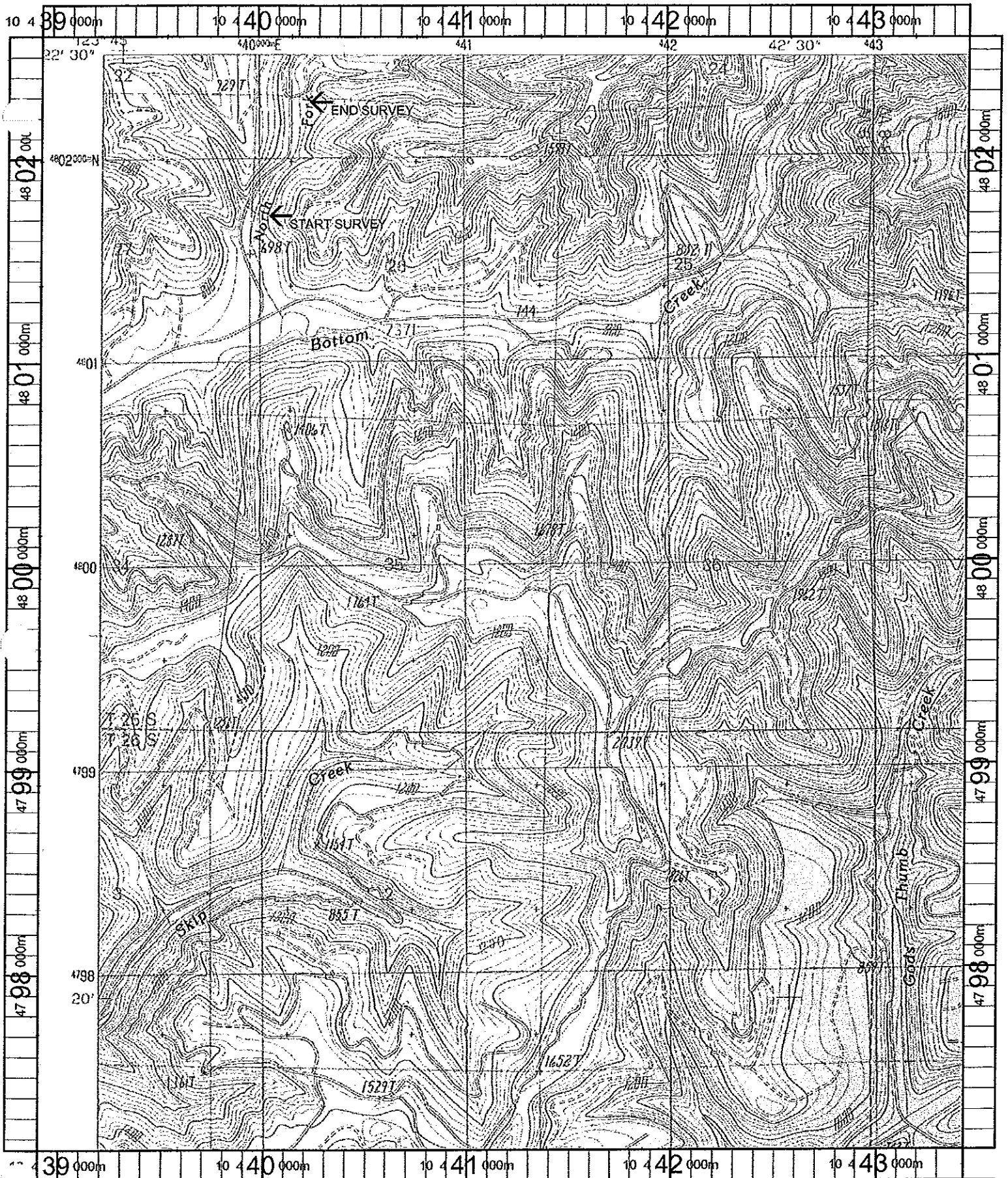
RIPARIAN ZONE VEGETATION

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VEGETATION DETAIL

Unit	Side	Zone	Surface	Slope	Cover (percent)				Diameter class (cm)					Notes
					Canopy	Shrub	Grass		3-15	15-30	30-50	50-90	>90	
8	LF	1	HS	60.0	70	10	70	Conifer	0	0	0	0	0	
								Hardwood	1	5	0	0	0	ALDER, 7250 ROAD
8	LF	2	RB	0.0	60	20	10	Conifer	0	0	0	0	0	
								Hardwood	1	0	1	0	0	7250 ROAD
8	LF	3	HS	80.0	100	35	45	Conifer	0	2	0	0	0	
								Hardwood	2	0	1	0	0	
8	RT	1	HS	25.0	90	10	40	Conifer	0	0	0	0	0	
								Hardwood	0	1	3	0	0	TREE FARM
8	RT	2	HS	40.0	100	0	20	Conifer	0	2	0	0	0	
								Hardwood	0	0	0	0	0	MONOCULTURE
8	RT	3	HS	90.0	100	0	20	Conifer	1	0	2	0	0	
								Hardwood	0	0	0	0	0	MONOCULTURE
15	RT	1	HS	35.0	90	10	60	Conifer	0	0	0	0	0	
								Hardwood	3	3	0	0	0	
15	RT	2	HS	70.0	100	0	30	Conifer	3	1	0	0	0	
								Hardwood	0	1	0	0	0	
15	RT	3	HS	120.0	100	0	20	Conifer	2	4	0	0	0	
								Hardwood	2	3	1	0	0	ALDER
15	LF	1	HS	40.0	60	0	70	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
15	LF	2	RB	0.0	60	0	40	Conifer	0	2	0	0	0	
								Hardwood	0	0	0	0	0	
15	LF	3	HS	50.0	80	0	20	Conifer	2	3	0	0	0	
								Hardwood	0	0	0	0	0	
22	LF	1	HT	5.0	80	40	40	Conifer	0	0	0	0	0	
								Hardwood	0	0	1	0	0	
22	LF	2	RB	0.0	80	20	20	Conifer	0	2	1	0	0	
								Hardwood	0	0	0	0	0	
22	LF	3	HS	60.0	100	10	40	Conifer	0	0	2	0	0	
								Hardwood	0	2	0	0	0	
22	RT	1	LT	5.0	90	50	50	Conifer	0	0	0	0	0	
								Hardwood	6	3	0	0	0	
22	RT	2	HS	100.0	100	0	60	Conifer	0	1	0	0	0	
								Hardwood	0	0	0	0	0	TREE FARM
22	RT	3	HS	100.0	100	0	30	Conifer	0	3	0	0	0	
								Hardwood	0	0	0	0	0	



Name: CEDAR CREEK  
 Date: 11/1/100  
 Scale: 1 inch equals 2000 feet

Location: 10 441085 E 4799839 N  
 Caption: NORTH FORK BOTTOM CREEK RESTORATION SITE - COOS BASIN