

REACH 1

T25S-R10W-S25SE

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 avg: 4.4 range: 3.0-7.0

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	506	4,080	0
Secondary	11	23	0

Channel Dimensions (m)

	<u>Wetted</u>		<u>Active</u>		<u>Floodprone</u>		<u>First Terrace</u>
Width	6.9	Width	11.9		13.7		17.5
Depth	0.37	Height	0.6		1.1		2.2
		W:D ratio	20.7	Entrenchment	1.1		

Stream Flow Type: LF Water Temp: 15.0-15.0°C
 Avg. Unit Gradient: 0.3% Habitat Units/100m: 3.7

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	ST	
Riparian Vegetation:	D15	D30

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding	8%	Reach avg: 93%
Undercut Banks	4%	Range: 67-100

Large Woody Debris

	<u>Total</u>	<u>Total/100m</u>
All pieces ($\geq 3m \times 0.15m$)	26	5.1
Volume (m ³)	6	1.1
Key pieces ($\geq 10m \times 0.6m$)	0	0.0

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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	1	6	2.5	0.15	16	8	5	0	0	5	90	0
GLIDE	1	14	8.5	0.10	122	0	0	15	70	15	0	0
POOL-LATERAL SCOUR	7	327	8.3	0.74	2,804	16	13	21	43	12	1	9
RAPID/BEDROCK	2	50	7.8	0.08	388	4	0	8	23	0	0	70
RIFFLE	7	115	6.3	0.19	765	12	4	19	51	11	2	15
STEP/BEDROCK	1	4	1.7	0.05	7	0	0	0	0	10	0	90
Total:	19	517	6.9	0.37	4,103	40	Avg: 7	16	41	10	6	21

HABITAT SUMMARY

Habitat Group	No. Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area (m ²)	Percent	Large Boulders Number	#/100m ²
Dammed & BW Pools	0	0	-	-	0	0.00	0	0.0
Scour Pools	7	327	8.3	0.74	2,804	68.35	16	0.6
Glides	1	14	8.5	0.10	122	2.98	0	0.0
Riffles	7	115	6.3	0.19	765	18.66	12	1.6
Rapids	2	50	7.8	0.08	388	9.45	4	1.0
Cascades	1	6	2.5	0.15	16	0.39	8	50.0
Step/Falls	1	4	1.7	0.05	7	0.17	0	0.0
Dry	0	0	-	-	0	0.00	0	0.0

POOL SUMMARY

All Pools	<u>Total</u>	<u>#/Km</u>
	7	13.5
Pools ≥1m deep:	0	0.0
Complex pools (LWD pieces ≥3):	2	3.9
Pool Frequency (channel widths/pool):	6.2	
Residual pool depth (avg)	0.61m	

STREAM SUMMARY

FALL CREEK PRE-TX (#85)

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	
19	517	6.9	0.37	4,103	7	16	41	10	6	21	40

Wetted Area

Habitat Group	(m ²)	Percent
Scour Pool	2,804	68.4
Backwater Pools	0	0.0
Glide	122	3.0
Riffle	765	18.7
Rapid	388	9.4
Cascade	16	0.4
Step	7	0.2
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	1,687
Total conifers/1000 ft	305
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	4.7	0.0	5.0	0.0	5.7	0.0	15.3
15-30cm	1.0	2.7	0.3	3.7	1.7	3.7	3.0	10.0
30-50cm	1.0	1.7	0.3	0.0	0.7	0.7	2.0	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 ²	2.0	9.0	0.7	8.7	2.3	10.0	1.7	9.2

Canopy closure and ground cover

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
	(%)		(%)		(%)	
Canopy closure	84		65		65	
Shrub cover	14		15		20	
Grass/forb cover	54		48		31	

Predominant landform in each zone

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
	Hillslope	50		33		33
High terrace	50		50		50	
Low terrace	0		0		0	
Floodplain	0		0		0	
Wetland/meadow	0		0		0	
Stream channel	0		0		0	
Roadbed/Railroad	0		17		17	
Riprap	0		0		0	
Surface slope (%)	38		14		27	

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	1,687
Total conifers/1000 ft	305
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	0.0	15.3
15-30cm	3.0	10.0
30-50cm	2.0	2.3
50-90cm	0.0	0.0
>90cm	0.0	0.0

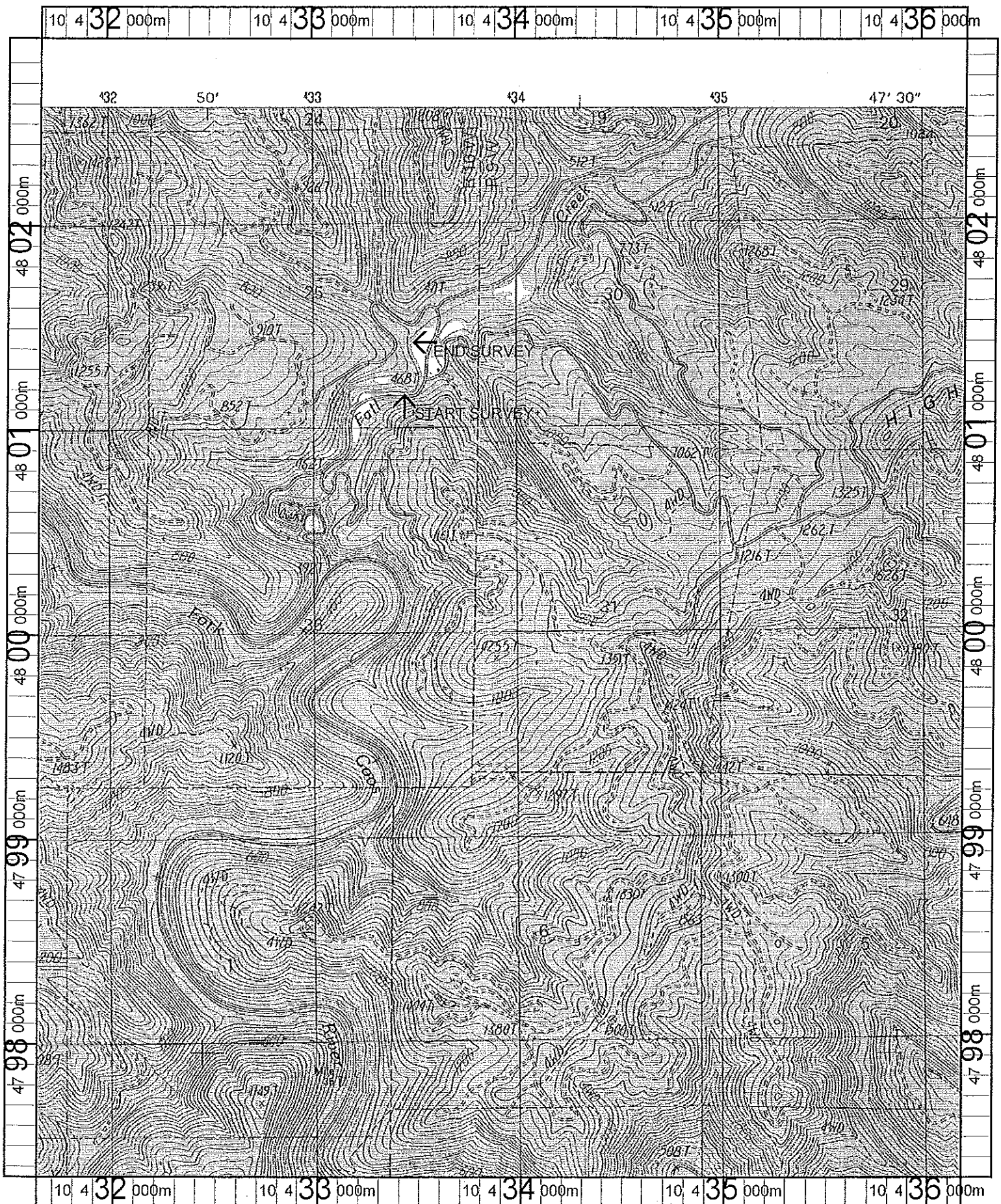
RIPARIAN ZONE VEGETATION

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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		
5	LF	1	HT	0.0	95	0	35	Conifer	0	1	3	0	0	
								Hardwood	0	0	0	0	0	
5	LF	2	HT	10.0	80	5	45	Conifer	0	0	0	0	0	
								Hardwood	0	1	0	0	0	
5	LF	3	HT	30.0	80	10	65	Conifer	0	0	0	0	0	
								Hardwood	7	9	2	0	0	
5	RT	1	HS	65.0	80	25	60	Conifer	0	0	0	0	0	
								Hardwood	0	3	3	0	0	
5	RT	2	HS	5.0	45	20	80	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
5	RT	3	RB	0.0	20	0	25	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
8	LF	1	HT	5.0	80	0	60	Conifer	0	1	0	0	0	
								Hardwood	4	3	0	0	0	
8	LF	2	HT	5.0	80	5	35	Conifer	0	1	1	0	0	
								Hardwood	9	6	0	0	0	
8	LF	3	HT	0.0	90	0	10	Conifer	0	3	1	0	0	
								Hardwood	5	0	0	0	0	
8	RT	1	HS	70.0	70	10	90	Conifer	0	0	0	0	0	
								Hardwood	0	0	1	0	0	
8	RT	2	RB	0.0	15	0	10	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
8	RT	3	HS	70.0	90	10	30	Conifer	0	0	1	0	0	
								Hardwood	2	2	0	0	0	
17	LF	1	HS	65.0	90	40	50	Conifer	0	1	0	0	0	
								Hardwood	6	0	0	0	0	
17	LF	2	HS	65.0	90	50	40	Conifer	0	0	0	0	0	
								Hardwood	2	0	0	0	0	
17	LF	3	HS	60.0	90	50	40	Conifer	0	2	0	0	0	
								Hardwood	3	0	0	0	0	
17	RT	1	HT	25.0	90	10	30	Conifer	0	0	0	0	0	
								Hardwood	4	2	1	0	0	
17	RT	2	HT	0.0	80	10	75	Conifer	0	0	0	0	0	
								Hardwood	4	4	0	0	0	
17	RT	3	HT	0.0	20	50	15	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	



Name: TIOGA
 Date: 5/30/101
 Scale: 1 inch equals 2000 feet

Location: 10 433824 E 4800094 N
 Caption: FALL CREEK RESTORATION SITE - COOS BASIN