

REACH 1

T2N-R6W-S36NE

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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: 2.0 range: 1.0-3.0

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	430	2,551	0
Secondary	48	132	1

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u>	<u>First Terrace</u>
Width 5.6	Width 8.9	16.6	15.5
Depth 0.41	Height 0.7	1.4	1.6
	W:D ratio 12.3	Entrenchment 1.9	

Stream Flow Type: LF Water Temp: 0.0-0.0°C
Avg. Unit Gradient: 1.1% Habitat Units/100m: 5.0

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	ST	
Riparian Vegetation:	M30	M15

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding	56%	Reach avg: 81%
Undercut Banks	16%	Range: 58- 94

Large Woody Debris

	<u>Total</u>	<u>Total/100m</u>
All pieces (≥3m x 0.15m)	70	16.3
Volume (m ³)	119	27.6
Key pieces (≥10m x 0.6m)	6	1.4

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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/BEDROCK	1	10	2.3	0.05	23	0	5	5	5	5	5	75
GLIDE	5	122	6.5	0.38	794	4	19	16	10	24	22	8
POOL-BACKWATER	2	13	3.8	0.45	51	0	20	28	18	25	10	0
POOL-LATERAL SCOUR	2	31	5.5	0.68	178	0	18	15	10	25	33	0
POOL-STRAIGHT SCOUR	2	58	6.9	0.95	395	0	45	40	0	0	0	15
POOL-TRENCH	1	21	5.3	0.70	112	0	10	10	0	0	0	80
PUDDLED CHANNEL	1	24	2.4	0.10	58	0	20	10	20	30	20	0
RIFFLE	8	187	5.4	0.31	988	3	11	15	15	30	26	3
RIFFLE W/ POCKETS	1	10	7.3	0.40	73	0	10	10	0	10	0	70
STEP/BEAVER DAM	1	2	8.3	0.10	13	0	50	50	0	0	0	0
Total:	24	478	5.6	0.41	2,684	7	Avg:19	19	10	21	18	13

HABITAT SUMMARY

Habitat Group	No. Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area		Large Boulders	
					(m ²)	Percent	Number	/100m ²
Dammed & BW Pools	2	13	3.8	0.45	51	1.90	0	0.0
Scour Pools	5	110	6.0	0.79	685	25.51	0	0.0
Glides	5	122	6.5	0.38	794	29.57	4	0.5
Riffles	9	197	5.6	0.32	1,061	39.52	3	0.3
Rapids	0	0	-	-	0	0.00	0	0.0
Cascades	1	10	2.3	0.05	23	0.86	0	0.0
Step/Falls	1	2	8.3	0.10	13	0.47	0	0.0
Dry	1	24	2.4	0.10	58	2.17	0	0.0

POOL SUMMARY

	<u>Total</u>	<u>#/Km</u>
All Pools	7	14.7
Pools ≥1m deep:	1	2.1
Complex pools (LWD pieces ≥3):	2	4.2
Pool Frequency (channel widths/pool):	7.7	
Residual pool depth (avg)	0.51m	

STREAM SUMMARY

DEVILS LAKE FK (PRE SUM 99)

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	
24	478	5.6	0.41	2,684	19	19	10	21	18	13	7

Wetted Area

Habitat Group	(m ²)	Percent
Scour Pool	685	25.5
Backwater Pools	51	1.9
Glide	794	29.6
Riffle	1,061	39.5
Rapid	0	0.0
Cascade	23	0.9
Step	13	0.5
Dry	58	2.2

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RIPARIAN ZONE VEGETATION SUMMARY

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Summary of Riparian Zone (0-30m) (1 transects)

Total hardwoods/1000 ft	305
Total conifers/1000 ft	183
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	0.0	0.0	0.0	0.0	3.0
15-30cm	0.0	2.0	0.0	0.0	0.0	0.0	0.0	2.0
30-50cm	0.0	0.0	2.0	0.0	1.0	0.0	3.0	0.0
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/100m ²	0.0	5.0	2.0	0.0	1.0	0.0	1.0	1.7

Canopy closure and ground cover

	Zone 1 0-10 meters	Zone 2 10-20 meters	Zone 3 20-30 meters
	(%)	(%)	(%)
Canopy closure	73	60	55
Shrub cover	18	15	13
Grass/forb cover	40	55	58

Predominant landform in each zone

	Zone 1 0-10 meters	Zone 2 10-20 meters	Zone 3 20-30 meters
	Hillslope	100	100
High terrace	0	0	0
Low terrace	0	0	0
Floodplain	0	0	0
Wetland/meadow	0	0	0
Stream channel	0	0	0
Roadbed/Railroad	0	0	0
Riprap	0	0	0
Surface slope (%)	25	53	45

Summary of Riparian Zone (0-30m) for all reaches (1 transects)

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

Total hardwoods/1000 ft	305
Total conifers/1000 ft	183
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	3.0
15-30cm	0.0	2.0
30-50cm	3.0	0.0
50-90cm	0.0	0.0
>90cm	0.0	0.0

RIPARIAN ZONE VEGETATION

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VEGETATION DETAIL

<u>Unit</u>	<u>Side</u>	<u>Zone</u>	<u>Surface</u>	<u>Slope</u>	<u>Cover (percent)</u>				<u>Diameter class (cm)</u>					<u>Notes</u>
					<u>Canopy</u>	<u>Shrub</u>	<u>Grass</u>		<u>3-15</u>	<u>15-30</u>	<u>30-50</u>	<u>50-90</u>	<u>>90</u>	
16	LF	1	HS	20.0	75	15	30	Conifer	0	0	0	0	0	
								Hardwood	2	0	0	0	0	
16	LF	2	HS	45.0	70	10	30	Conifer	0	0	1	0	0	
								Hardwood	0	0	0	0	0	
16	LF	3	HS	50.0	70	5	35	Conifer	0	0	1	0	0	
								Hardwood	0	0	0	0	0	
16	RT	1	HS	30.0	70	20	50	Conifer	0	0	0	0	0	
								Hardwood	1	2	0	0	0	
16	RT	2	HS	60.0	50	20	80	Conifer	0	0	1	0	0	
								Hardwood	0	0	0	0	0	
16	RT	3	HS	40.0	40	20	80	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	

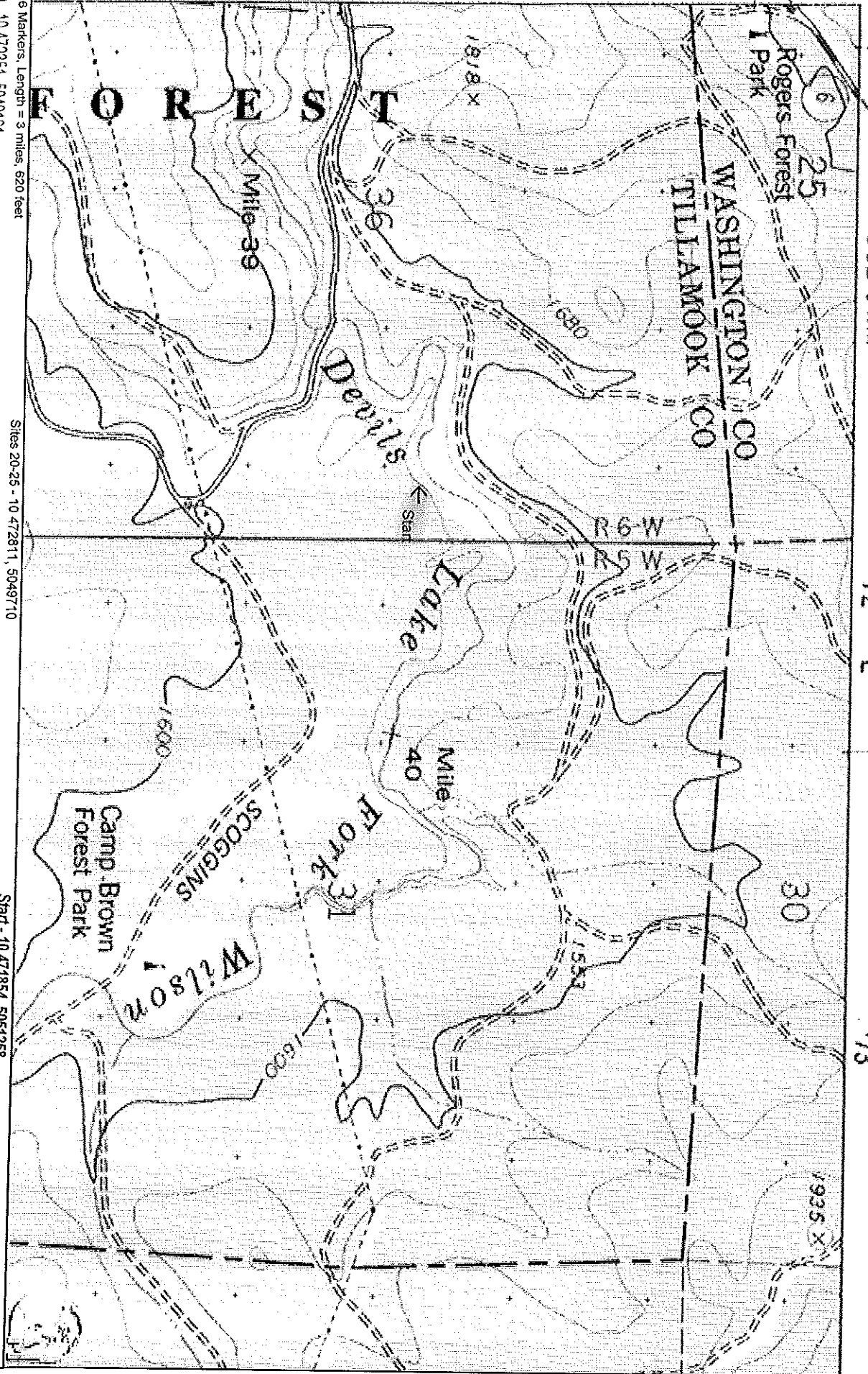
123°22'30"
7'30"

FOREST GROVE (VIA OREG. 8) 18 MI.
GLENWOOD 6 MI.

472 000mE

473

TILLAMOOK 30 MI.



<Default> - 6 Markers, Length = 3 miles 620 feet
 Sites 7-9 - 10 472351, 5049161
 Sites 10-19 - 10 472269, 5049513

Sites 20-25 - 10 472811, 5049710
 Sites 26-33 - 10 473160, 5048943
 Sites 34 - 10 473075, 5048623

Start - 10 471354, 5051258

Name: ROARING CREEK
 Date: 5/26/99
 Scale: 1 inch equals 1000 feet

Location: 10 472179 5051387
 Caption: Devil's Lake Fork