

REACH 1

T11S-R02E-S29SE

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	0%
Moderate V-shape	100%	Multiple Terraces	0%
Open V-shape	0%	Wide Floodplain	0%
Valley Width Index 1.2		VWI Range: 1 - 1.5	

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	499	3,517	0
Secondary	51	231	1

Channel Dimensions (m)

<u>Wetted</u>		<u>Active</u>		<u>Floodprone</u>	<u>First Terrace</u>
Width	6.9	Width	12.3	17.4	20.6
Depth	0.40	Height	0.4	0.9	1.3
		W:D ratio	28.5	Entrenchment	1.4
Stream Flow Type:	LF	Water temp (C): 16.0 - 16.0			
Avg. Unit Gradient:	4.5%	Habitat Units/100m: 6.4			

**Riparian, Bank, and Wood Summary**

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

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding:	3%	Reach avg: 91%
Undercut Banks:	1%	Range: 54 - 100

Large Wood Debris

	<u>Total</u>	<u>Total / 100m</u>
All pieces (>=3m x 0.15m):	116	23.2
Volume (m <sup>3</sup> ):	247	49.6
Key pieces (>=10m x 0.60m):	18	3.6

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Habitat Type	Number Units	Total Length (m)	HABITAT DETAIL				Substrate					
			Avg Width (m)	Avg Depth (m)	Total Area (m <sup>2</sup> )	Large Boulders (#>0.5m)	Percent Wetted Area					
			S/O	Snd	Grvl	Cbl	Bldr	Bdrk				
CASCADE/BEDROCK	2	44	8.4	0.23	362	26	0	5	5	15	10	65
CASCADE/BOULDERS	8	182	6.7	0.29	1,210	162	1	6	24	42	24	3
DRY UNIT	1	9	8.2	0.00	74	15	5	10	20	50	15	0
POOL-LATERAL SCOUR	4	56	4.5	0.65	246	34	8	17	28	33	6	8
POOL-PLUNGE	2	18	9.3	1.25	180	12	0	17	13	28	25	17
POOL-STRAIGHT SCOUR	2	22	6.3	0.88	138	11	0	5	25	30	40	0
RAPID/BEDROCK	3	64	6.8	0.30	437	23	0	7	13	20	10	50
RAPID/BOULDERS	5	110	7.1	0.26	771	99	0	9	31	45	15	0
RIFFLE	2	29	6.5	0.20	214	21	4	15	40	36	4	0
STEP/BEDROCK	2	8	8.3	0.08	63	3	0	0	0	0	0	100
STEP/BOULDERS	1	9	6.3	0.40	54	8	0	0	20	50	30	0
<b>Total:</b>	<b>32</b>	<b>550</b>	<b>6.9</b>	<b>0.40</b>	<b>3,748</b>	<b>414</b>	<b>Avg 2</b>	<b>9</b>	<b>22</b>	<b>34</b>	<b>16</b>	<b>18</b>

Habitat Group	Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area		Large Boulders	
					(m <sup>2</sup> )	Percent	Number	(# / 100m <sup>2</sup> )
Dammed & BW Pools	0	0			0	0.00%	0	0.0
Scour Pools	8	96	6.1	0.86	564	15.05%	57	10.1
Glides	0	0			0	0.00%	0	0.0
Riffles	2	29	6.5	0.20	214	5.70%	21	9.8
Rapids	8	174	7.0	0.28	1,208	32.23%	122	10.1
Cascades	10	226	7.0	0.28	1,572	41.95%	188	12.0
Step/Falls	3	16	7.6	0.18	116	3.10%	11	9.5
Dry	1	9	8.2	0.00	74	1.97%	15	20.3
Culverts	0	0			0	0.00%	0	0.0

	<u>Total</u>	<u># / Km</u>
All Pools:	8	16.0
Pools >=1m deep:	3	6.0
Complex pools (LWD pieces>=3):	3	6.0
Pool frequency (channel widths/pool):	5.6	
Residual pool depth (avg):	0.63	

**RIPARIAN ZONE VEGETATION SUMMARY**

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<b>Summary of Riparian Zone (0-30m) 3 transects</b>	
Total hardwoods/1000	630
Total conifers/1000 ft	406
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	0.7	3.0	1.0	1.7	1.0	2.7	2.7	7.3
15-30cm	0.0	1.3	1.7	0.3	2.0	0.7	3.7	2.3
30-50cm	0.0	0.3	0.3	0.3	0.0	0.0	0.3	0.7
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	0.7	4.7	3.0	2.3	3.0	3.3	2.2	3.4

**Canopy closure and ground cover**

	Zone 1 0-10 meters	Zone 2 10 - 20 meters	Zone 3 20 - 30 meters
	(%)	(%)	(%)
Canopy closure	87	70	75
Shrub cover	15	35	35
Grass/forb cover	85	65	52

**Predominant landform in each zone**

	Zone 1 0-10 meters	Zone 2 10 - 20 meters	Zone 3 20 - 30 meters
	(%)	(%)	(%)
Hillslope	83	100	100
High terrace	0	0	0
Low terrace	17	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 (%)	57	57	67

**RIPARIAN ZONE VEGETATION**

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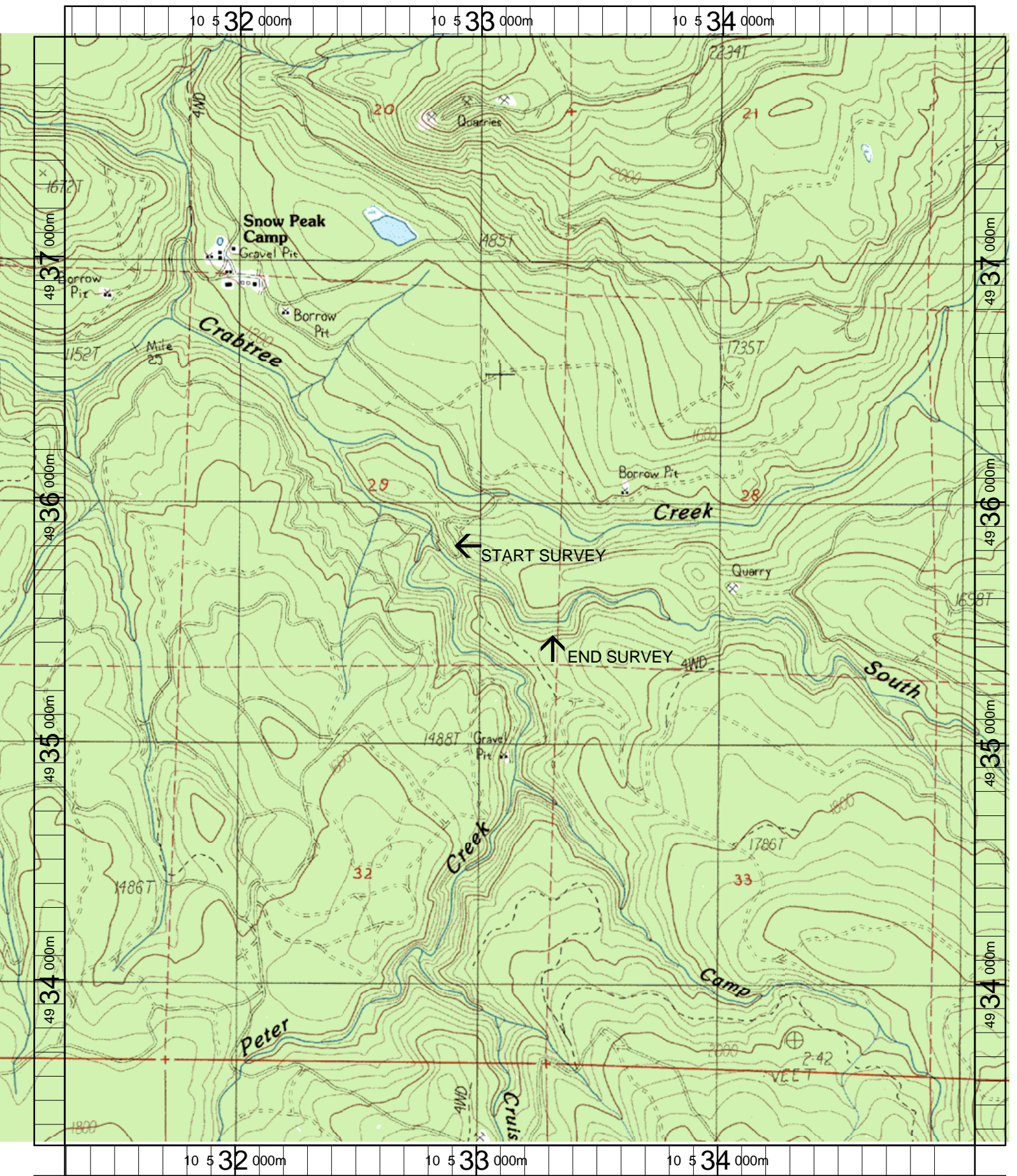
Unit	Side	Zone	Surface	Slope	Cover (percent)				Diameter class (cm)					Notes	
					Canopy	Shrub	Grass		3-15	15-30	30-50	50-90	>90		
9	LF	1	HS	80	90	0	100	Conifer							
								Hardwood	3						
9	LF	2	HS	70	90	20	80	Conifer	1	1					
								Hardwood							
9	LF	3	HS	60	90	50	50	Conifer	3						
								Hardwood	5						
9	RT	1	LT	0	90	60	40	Conifer							
								Hardwood	4	1					
9	RT	2	HS	30	90	10	90	Conifer							
								Hardwood		1	1				
9	RT	3	HS	60	90	0	100	Conifer			2				
								Hardwood							
21	LF	1	HS	70	90	10	90	Conifer							
								Hardwood	1	1					
21	LF	2	HS	70	50	80	20	Conifer	2						
								Hardwood							
21	LF	3	HS	50	70	50	50	Conifer							
								Hardwood		2					
21	RT	1	HS	80	90	10	90	Conifer	1						
								Hardwood		1					
21	RT	2	HS	70	80	20	80	Conifer			3				
								Hardwood							
21	RT	3	HS	50	70	50	50	Conifer			3				
								Hardwood							
27	LF	1	HS	70	90	0	100	Conifer							
								Hardwood	1	1	1				
27	LF	2	HS	60	70	20	80	Conifer			1				
								Hardwood	3						
27	LF	3	HS	60	80	50	50	Conifer			1				
								Hardwood	3						
27	RT	1	HS	40	70	10	90	Conifer	1						
								Hardwood							
27	RT	2	HS	40	40	60	40	Conifer					1		
								Hardwood	2						
27	RT	3	HS	120	50	10	10	Conifer							
								Hardwood							

# Comment Summary

## Oregon Plan Monitoring Sites 2002

MONITORING AREA: 8-W      SITE ID: 101      S FK CRABTREE CREEK POST-TX (

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
1	CB	00	28.4		START SURVEY	START SURVEY
8	SR	00	123.1		H=.8	
9	CR	00	150.1		RIP#1	RIP#1
14	CB	02	227.5	DJ		
17	DU	02	227.5	DJ	WATER FLOWS UNDER L	SUBSURFACE UNDER JAM
20	RB	00	284.3		RIP#2	
21	SP	00	293.5		T=16C	RIP#2
25	CB	00	346.6	DJ		
27	CB	00	394		RIP#3	
32	RB	00	499.3		END OF SURVEY	END SURVEY



Name: KEEL MT  
 Date: 3/20/2003  
 Scale: 1 inch equals 1666 feet

Location: 10 533164 E 4935626 N  
 Caption: SOUTH FORK CRABTREE CREEK RESTORATION SITE -  
 SOUTH SANTIAM BASIN