

REACH 1

T14S-R10N-36SE

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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	100
Moderate V-shape	0	Multiple Terraces	0
Open V-shape	0	Wide Floodplain	0

Valley Width Index avg: 9.9 range: 1.0-20.0

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	527	1,851	0
Secondary	33	47	1

Channel Dimensions (m)

<u>Wetted</u>		<u>Active</u>		<u>Floodprone</u>	<u>First Terrace</u>
Width	3.4	Width	7.9	11.9	14.2
Depth	0.29	Height	0.5	1.0	1.9
		W:D ratio	15.0	Entrenchment	1.6

Stream Flow Type: MF Water Temp: 13.0-13.0°C
 Avg. Unit Gradient: 2.0% Habitat Units/100m: 9.8

Riparian, Bank, and Wood Summary

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

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding	0%	Reach avg: 83%
Undercut Banks	5%	Range: 38-100

Large Woody Debris

	<u>Total</u>	<u>Total/100m</u>
All pieces ($\geq 3m \times 0.15m$)	78	14.8
Volume (m ³)	39	7.4
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
CULVERT CROSSING	1	31	1.4	0.00	43	0	0	44	44	11	0	0
DRY CHANNEL	1	20	0.8	0.00	16	0	0	20	80	0	0	0
POOL-BACKWATER	2	13	2.3	0.38	31	0	45	55	0	0	0	0
POOL-LATERAL SCOUR	16	199	3.8	0.49	799	2	8	45	11	4	0	33
POOL-PLUNGE	6	33	4.1	0.53	144	13	2	34	6	0	10	48
POOL-STRAIGHT SCOUR	4	38	5.1	0.53	168	9	8	41	7	1	1	41
RIFFLE	12	199	3.0	0.12	609	7	2	14	56	5	0	24
STEP/BEDROCK	3	11	3.3	0.04	36	0	0	0	0	0	0	100
STEP/COBBLE	4	13	3.4	0.05	41	2	0	3	64	31	3	0
STEP/LOG	5	4	2.6	0.04	10	0	0	40	32	20	6	2
STEP/STRUCTURE	1	1	2.0	0.10	1	0	0	30	0	0	0	70
Total:	55	560	3.4	0.29	1,897	33	Avg: 5	30	26	7	2	30

HABITAT SUMMARY

Habitat Group	No. Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area (m ²)	Percent	Large Boulders Number	Boulders #/100m ²
Dammed & BW Pools	2	13	2.3	0.38	31	1.63	0	0.0
Scour Pools	26	269	4.1	0.51	1,111	58.56	24	2.2
Glides	0	0	-	-	0	0.00	0	0.0
Riffles	12	199	3.0	0.12	609	32.08	7	1.2
Rapids	0	0	-	-	0	0.00	0	0.0
Cascades	0	0	-	-	0	0.00	0	0.0
Step/Falls	13	28	3.0	0.05	88	4.66	2	2.3
Dry	1	20	0.8	0.00	16	0.82	0	0.0

POOL SUMMARY

All Pools	<u>Total</u>	<u>#/Km</u>
	28	50.0
Pools ≥1m deep:	0	0.0
Complex pools (LWD pieces ≥3):	5	8.9
Pool Frequency (channel widths/pool):	2.5	
Residual pool depth (avg)	0.39m	

STREAM SUMMARY

CHERRY CREEK (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	
55	560	3.4	0.29	1,897	5	30	26	7	2	30	33

Habitat Group	Wetted Area	
	(m ²)	Percent
Scour Pool	1,111	58.6
Backwater Pools	31	1.6
Glide	0	0.0
Riffle	609	32.1
Rapid	0	0.0
Cascade	0	0.0
Step	88	4.7
Dry	16	0.8

REACH 1

RIPARIAN ZONE VEGETATION SUMMARY

REACH 1

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

Total hardwoods/1000 ft	610
Total conifers/1000 ft	163
Total conifers >20" dbh/1000 ft	102
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	1.7	0.0	1.7	0.3	3.3	0.3	6.7
15-30cm	0.0	0.7	0.0	1.0	0.0	1.0	0.0	2.7
30-50cm	0.0	0.0	0.7	0.7	0.0	0.0	0.7	0.7
50-90cm	1.0	0.0	0.7	0.0	0.0	0.0	1.7	0.0
>90cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total/100m ²	1.0	2.3	1.3	3.3	0.3	4.3	0.9	3.3

Canopy closure and ground cover

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
	(%)		(%)		(%)	
Canopy closure	55		40		35	
Shrub cover	34		10		35	
Grass/forb cover	63		54		65	

Predominant landform in each zone

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
	Hillslope	67		33		50
High terrace	33		33		33	
Low terrace	0		0		0	
Floodplain	0		0		0	
Wetland/meadow	0		0		0	
Stream channel	0		0		0	
Roadbed/Railroad	0		33		17	
Riprap	0		0		0	
Surface slope (%)	27		9		16	

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	610
Total conifers/1000 ft	163
Total conifers >20" dbh/1000 ft	102

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	0.3	6.7
15-30cm	0.0	2.7
30-50cm	0.7	0.7
50-90cm	1.7	0.0
>90cm	0.0	0.0

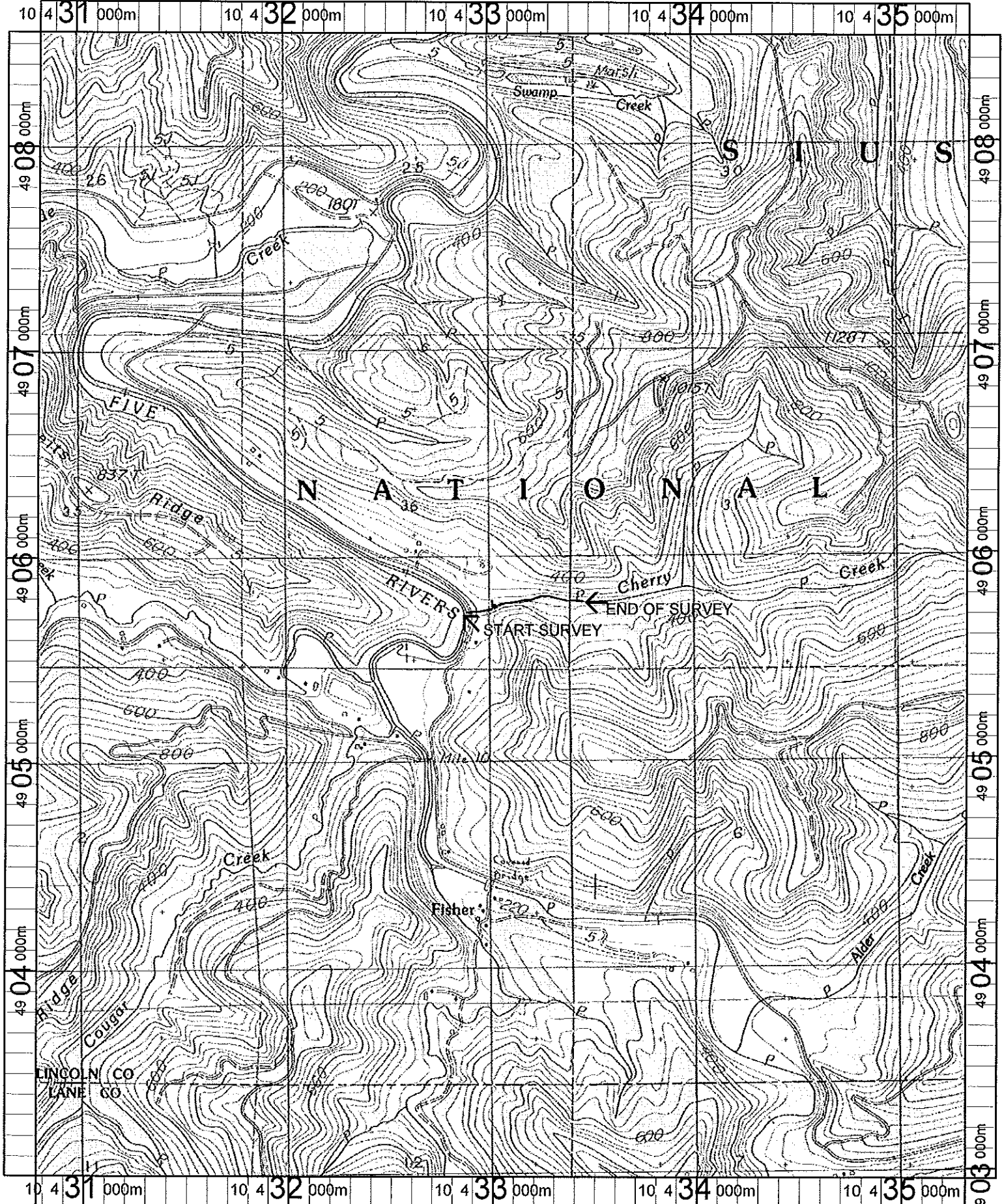
RIPARIAN ZONE VEGETATION

Reach 1

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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	
21	LF	1	HT	0.0	0	50	50	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
21	LF	2	HT	3.0	0	10	90	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
21	LF	3	HT	5.0	0	0	100	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
21	RT	1	HS	25.0	10	70	30	Conifer	0	0	0	0	0	
								Hardwood	1	0	0	0	0	
21	RT	2	RB	0.0	10	10	20	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	GRAVEL RB=70%, REST
21	RT	3	HS	30.0	30	95	5	Conifer	0	0	0	0	0	
								Hardwood	1	0	0	0	0	
31	LF	1	HT	10.0	80	30	55	Conifer	0	0	0	1	0	
								Hardwood	1	0	0	0	0	DOWNED TREES = 15%
31	LF	2	HT	0.0	30	0	25	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	75% GRAVEL ROAD
31	LF	3	HT	0.0	0	5	95	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
31	RT	1	HS	70.0	85	15	85	Conifer	0	0	0	0	0	
								Hardwood	1	1	0	0	0	
31	RT	2	RB	0.0	10	0	30	Conifer	0	0	0	0	0	
								Hardwood	0	1	2	0	0	RB=GRAVEL=70%, REST
31	RT	3	HS	45.0	65	90	10	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
50	LF	1	HS	30.0	85	5	95	Conifer	0	0	0	2	0	
								Hardwood	2	1	0	0	0	
50	LF	2	HS	25.0	90	40	60	Conifer	0	0	0	1	0	
								Hardwood	0	2	0	0	0	
50	LF	3	RB	0.0	15	20	80	Conifer	0	0	0	0	0	
								Hardwood	3	0	0	0	0	OLD RB-GRASSY, REST
50	RT	1	HS	25.0	70	35	65	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
50	RT	2	HS	25.0	100	0	100	Conifer	0	0	2	1	0	
								Hardwood	5	0	0	0	0	
50	RT	3	HS	15.0	100	0	100	Conifer	1	0	0	0	0	
								Hardwood	6	3	0	0	0	



Name: FIVE RIVERS
 Date: 4/25/100
 Scale: 1 inch equals 2000 feet

Location: 10 432969 E 4905740 N
 Caption: CHERRY CREEK
 RESTORATION SITE
 ODFW 1999