

REACH 1

T23S-R10W-S06NW

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 2.1		VWI Range: 1.5 - 2.8	

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	754	2,494	0
Secondary	47	57	1

Channel Dimensions (m)

<u>Wetted</u>		<u>Active</u>		<u>Floodprone</u>	<u>First Terrace</u>
Width	3.1	Width	5.6	9.3	14.9
Depth	0.21	Height	0.5	0.9	3.7
		W:D ratio	12.1	Entrenchment	1.7
Stream Flow Type:	LF	Water temp (C): 12.0 - 12.0			
Avg. Unit Gradient:	1.7%	Habitat Units/100m: 9.7			

**Riparian, Bank, and Wood Summary**

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

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding:	5%	Reach avg: 91%
Undercut Banks:	13%	Range: 39 - 100

Large Wood Debris

	<u>Total</u>	<u>Total / 100m</u>
All pieces (>=3m x 0.15m):	258	34.2
Volume (m <sup>3</sup> ):	345	45.7
Key pieces (>=10m x 0.60m):	31	4.1

OREGON DEPARTMENT OF FISH AND WILDLIFE

FISH CREEK POST-TX (MS-32)

HABITAT INVENTORY

Report Date: 3/17/03

Survey Date:

7/1/02

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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	Cbl	Bldr	Bdrk		
CASCADE/BOULDERS	1	8	6.0	0.10	46	6	0	5	50	15	30	0		
CULVERT CROSSING	2	23	1.0	0.07	24	0	5	12	81	2	0	0		
DRY CHANNEL	1	4	2.0	0.00	8	0	5	15	50	10	20	0		
POOL-BACKWATER	1	10	1.0	0.40	10	0	5	20	75	0	0	0		
POOL-DAMMED	7	55	4.4	0.54	216	5	15	21	59	2	4	0		
POOL-ISOLATED	1	3	2.5	0.30	6	0	40	60	0	0	0	0		
POOL-LATERAL SCOUR	14	132	3.3	0.36	458	24	7	14	36	4	7	32		
POOL-PLUNGE	4	19	4.5	0.38	86	2	9	12	39	3	5	33		
RAPID/BEDROCK	11	239	3.8	0.06	901	86	3	8	12	0	5	71		
RAPID/BOULDERS	1	8	2.0	0.10	15	9	6	13	13	6	25	38		
RIFFLE	19	267	2.5	0.11	702	51	5	12	59	8	6	11		
RIFFLE W/ POCKETS	1	17	2.0	0.15	33	8	5	10	30	15	10	30		
STEP/BEDROCK	1	1	4.0	0.02	2	0	0	0	0	0	0	100		
STEP/BOULDERS	2	3	1.8	0.11	5	7	0	3	33	3	63	0		
STEP/COBBLE	5	12	1.6	0.20	21	6	1	6	62	10	19	2		
STEP/LOG	1	3	5.0	0.01	15	0	15	15	60	10	0	0		
STEP/STRUCTURE	1	0	0.2	0.05	0	0	5	10	85	0	0	0		
<b>Total:</b>		73	801	3.1	0.21	2,550	204	<b>Avg</b>	6	13	44	5	8	24

HABITAT SUMMARY

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	9	68	3.8	0.50	232	9.12%	5	2.2
Scour Pools	18	151	3.6	0.36	545	21.36%	26	4.8
Glides	0	0			0	0.00%	0	0.0
Riffles	20	284	2.5	0.11	735	28.84%	59	8.0
Rapids	12	246	3.6	0.06	916	35.93%	95	10.4
Cascades	1	8	6.0	0.10	46	1.81%	6	13.0
Step/Falls	10	18	2.1	0.13	43	1.70%	13	30.0
Dry	1	4	2.0	0.00	8	0.31%	0	0.0
Culverts	2	23	1.0	0.07	24	0.93%	0	0.0

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**POOL SUMMARY**

	<u>Total</u>	<u># / Km</u>
All Pools:	27	35.8
Pools >=1m deep:	0	0.0
Complex pools (LWD pieces>=3):	12	15.9
Pool frequency (channel widths/pool):	5.3	
Residual pool depth (avg):	0.30	

**RIPARIAN ZONE VEGETATION SUMMARY**

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

Total hardwoods/1000	569
Total conifers/1000 ft	224
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		Zone 2		Zone 3		Zones 1-3	
	0-10 meters		10 - 20 meters		20 - 30 meters		0-30 meters	
	Conifer	Hardwood	Conifer	Hardwood	Conifer	Hardwood	Conifer	Hardwood
3-15cm	0.0	1.7	0.0	1.7	0.3	0.3	0.3	3.7
15-30cm	0.0	3.7	0.3	0.0	1.0	0.3	1.3	4.0
30-50cm	0.0	0.0	0.3	0.3	1.7	1.3	2.0	1.7
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	0.0	5.3	0.7	2.0	3.0	2.0	1.2	3.1

**Canopy closure and ground cover**

	Zone 1		Zone 2		Zone 3	
	0-10 meters		10 - 20 meters		20 - 30 meters	
	(%)		(%)		(%)	
Canopy closure	79		69		79	
Shrub cover	37		11		23	
Grass/forb cover	48		52		57	

**Predominant landform in each zone**

	Zone 1		Zone 2		Zone 3	
	0-10 meters		10 - 20 meters		20 - 30 meters	
	(%)		(%)		(%)	
Hillslope	83		50		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	17		50		0	
Riprap	0		0		0	
Surface slope (%)	22		26		40	

**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		
19	LF	1	RB	0	70	10	10	Conifer							10T0426171 UTM4827619
								Hardwood							
19	LF	2	HS	85	100	20	70	Conifer							EST. DUE TO SLOPE
								Hardwood							
19	LF	3	HS	85	95	20	70	Conifer		3					
								Hardwood							
19	RT	1	HS	12	85	10	90	Conifer							
								Hardwood		4					
19	RT	2	RB	8	70	15	70	Conifer							OLD RB
								Hardwood				1			
19	RT	3	HS	19	85	5	80	Conifer				4			1M CEDAR STUMP
								Hardwood							
43	LF	1	HS	24	90	60	40	Conifer							10T0426060 UTM4827973
								Hardwood			6				
43	LF	2	RB	0	10	0	40	Conifer							
								Hardwood							
43	LF	3	HS	31	45	30	50	Conifer	1		1				
								Hardwood	1						
43	RT	1	HS	40	90	30	70	Conifer							EST. DUE TO SLOPE
								Hardwood	2						
43	RT	2	HS	40	75	20	70	Conifer							V MAPLE
								Hardwood	5						
43	RT	3	HS	40	90	40	60	Conifer							
								Hardwood							
63	LF	1	HS	28	90	70	30	Conifer							
								Hardwood	3	1					
63	LF	2	RB	0	70	10	30	Conifer							
								Hardwood							
63	LF	3	HS	35	80	40	60	Conifer							
								Hardwood			1				
63	RT	1	HS	27	50	40	50	Conifer							
								Hardwood							
63	RT	2	HS	25	90	0	30	Conifer			1	1			
								Hardwood							
63	RT	3	HS	29	80	0	20	Conifer							BK
								Hardwood			4				

# Comment Summary

## Oregon Plan Monitoring Sites 2002

MONITORING AREA: 3-MS      SITE ID: 32      FISH CREEK POST-TX (MS-32)

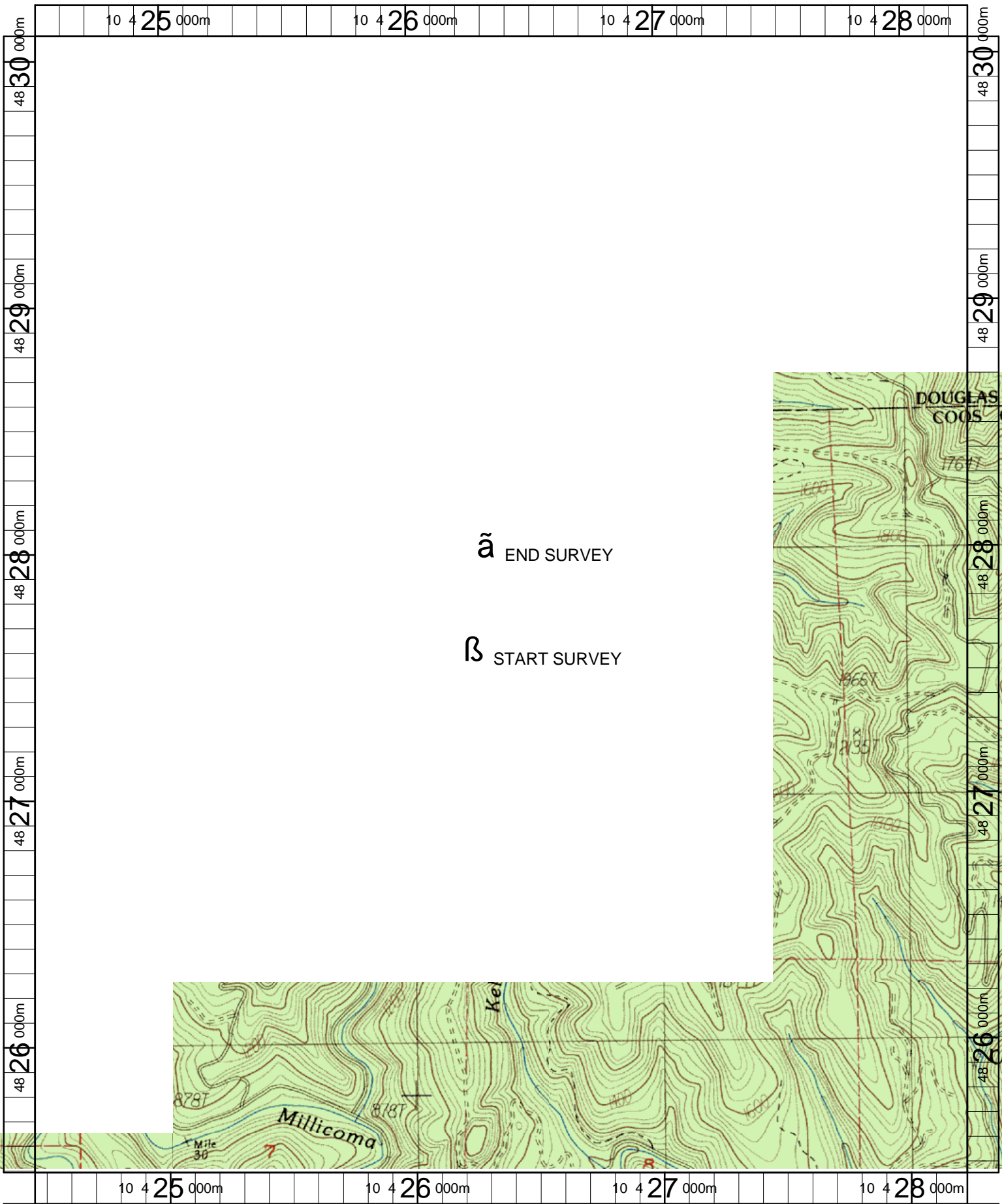
UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
1	RI	01	13.3	TJ/	TJ/	JUV. COHO
3	BW	10	13.3			JUV. SALAMANDERS
4	DP	00	18.9	DJ	PIC. 1	
7	IP	10	29.8			JUV. COHO
8	RI	00	46.7			BW/, JUV. COHO
9	DP	00	57.2	DJ, HS		
11	DP	00	78.1	DJ		JUV. COHO 20-30
13	DP	00	94.9	DJ	COHO	
14	RI	00	113.6			AS-CHRISTMAS TREES
15	LP	00	134.2			COHO 20-30
16	RI	00	158.4	HS		HABITAT LOG
18	RI	00	189.3	CS/		
19	LP	00	200.4			JUV. COHO
22	SC	00	211.2		H = .3M	H = .3 L = .5
26	RI	01	264.7	TJ/		
27	RI	11	264.7	CS	SS BEYOND RI (H=.5M) PI	CE BEYOND RI D = .5 SS = .5
30	PP	00	294.7	DJ		
31	SL	00	297.7		H = .3M	H = .3M
34	DP	00	332.3			JUV. COHO 20-30
36	LP	00	350.6			DEAD MILLIPEDES
39	SB	00	385.7		H = .2M	H = .2M

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UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
41	SC	00	393.8		H = .2M	H = .2M
43	RR	00	421.9		PIC 4 @ END OF UNIT	
47	RR	01	476.4		/TJ (/CC)	
48	SC	11	476.4		H = .4M	T = 12C, H = .4M
50	SS	11	476.4	CE	H = .4M, PIC. 5	H = .4M
51	CC	11	476.4	CE		FLOW UNDERNEATH
53	SR	00	483.2		H = .6M	H = .6M L = 1M
57	RR	00	605.7	HS		LOGS
58	RR	00	615	HS		LOGS
59	LP	00	619.4	HS		LOGS
62	LP	00	635.2	HS		
64	LP	00	647.2		AT END OF UNIT, PIC. 6	JUV. COHO
69	SB	00	717	CS/	H = .4M	RIP RAP
70	RI	00	734.1	CS/		
71	CB	00	741.8	DJ	LOTS OF WOOD PIC. 7	
72	RI	01	754.1	DJ		
73	CC	11	754.1	CE, CS	DIAM = .4M, 4M LONG	RIP RAP



Name: ELK PEAK  
 Date: 3/21/2003  
 Scale: 1 inch equals 1666 feet

Location: 10 426359 E 4827782 N  
 Caption: FISH CREEK RESTORATION SITE - MILLICOMA BASIN