

REACH 1

T23S-R11W-S14NE

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	3.5	VWI Range:	3.5 - 3.5

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	516	7,776	0
Secondary	39	77	0

Channel Dimensions (m)

<u>Wetted</u>		<u>Active</u>		<u>Floodprone</u>	<u>First Terrace</u>
Width	13.6	Width	21.3	24.1	28.3
Depth	0.42	Height	0.9	1.8	2.4
		W:D ratio	24.9	Entrenchment	1.1
Stream Flow Type:	LF	Water temp (C): 16.0 - 16.0			
Avg. Unit Gradient:	0.5%	Habitat Units/100m: 4.8			

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	MT	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:	2%	Reach avg: 77%
Undercut Banks:	2%	Range: 64 - 100

Large Wood Debris

	<u>Total</u>	<u>Total / 100m</u>
All pieces (>=3m x 0.15m):	28	5.4
Volume (m ³):	54	10.5
Key pieces (>=10m x 0.60m):	2	0.4

OREGON DEPARTMENT OF FISH AND WILDLIFE

WF MILLICOMA RIVER PRE-TX (MS-171)

HABITAT INVENTORY

Report Date: 3/17/03

Survey Date:

7/17/02

REACH 1		T23S-R11W-S14NE					REACH 1						
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	Cbl	Bldr	Bdrk	
GLIDE	2	60	16.0	0.15	938	11	5	10	36	5	2	43	
POOL-BACKWATER	1	11	2.0	0.15	21	2	10	10	30	0	0	50	
POOL-LATERAL SCOUR	11	283	16.1	0.71	4,662	91	5	11	29	6	6	42	
RAPID/BEDROCK	4	92	9.6	0.24	907	26	3	10	22	5	6	54	
RIFFLE	2	52	10.5	0.11	512	27	3	11	50	17	6	14	
STEP/BEDROCK	3	35	11.0	0.25	400	29	0	10	28	7	14	41	
STEP/COBBLE	2	22	18.5	0.13	414	13	3	11	46	17	6	17	
Total:	25	555	13.6	0.42	7,854	199	Avg 4	11	32	7	6	40	

HABITAT SUMMARY									
Habitat Group	Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area		Large Boulders		
					(m ²)	Percent	Number	(# / 100m ²)	
Dammed & BW Pools	1	11	2.0	0.15	21	0.27%	2	9.4	
Scour Pools	11	283	16.1	0.71	4,662	59.36%	91	2.0	
Glides	2	60	16.0	0.15	938	11.94%	11	1.2	
Riffles	2	52	10.5	0.11	512	6.52%	27	5.3	
Rapids	4	92	9.6	0.24	907	11.54%	26	2.9	
Cascades	0	0			0	0.00%	0	0.0	
Step/Falls	5	58	14.0	0.20	814	10.37%	42	5.2	
Dry	0	0			0	0.00%	0	0.0	
Culverts	0	0			0	0.00%	0	0.0	

POOL SUMMARY		
	<u>Total</u>	<u># / Km</u>
All Pools:	12	23.3
Pools >=1m deep:	1	1.9
Complex pools (LWD pieces>=3):	3	5.8
Pool frequency (channel widths/pool):	2.2	
Residual pool depth (avg):	0.46	

RIPARIAN ZONE VEGETATION SUMMARY

REACH 1	REACH 1
Summary of Riparian Zone (0-30m) 3 transects	
Total hardwoods/1000	528
Total conifers/1000 ft	244
Total conifers >20" dbh/1000 ft	122
Total conifers >35" dbh/1000 ft	102

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	2.3	0.0	1.3	0.0	0.0	0.0	3.7
15-30cm	0.0	0.0	1.0	0.0	0.0	0.3	1.0	0.3
30-50cm	0.0	1.3	0.7	2.0	0.3	0.0	1.0	3.3
50-90cm	0.3	1.3	0.0	0.0	0.0	0.0	0.3	1.3
>90cm	0.0	0.0	0.7	0.0	1.0	0.0	1.7	0.0
Total/100m2	0.3	5.0	2.3	3.3	1.3	0.3	1.3	2.9

Canopy closure and ground cover

	Zone 1 0-10 meters	Zone 2 10 - 20 meters	Zone 3 20 - 30 meters
	(%)	(%)	(%)
Canopy closure	74	76	73
Shrub cover	58	58	51
Grass/forb cover	38	34	45

Predominant landform in each zone

	Zone 1 0-10 meters	Zone 2 10 - 20 meters	Zone 3 20 - 30 meters
	(%)	(%)	(%)
Hillslope	50	67	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	0	0
Riprap	0	0	0
Surface slope (%)	32	36	16

RIPARIAN ZONE VEGETATION

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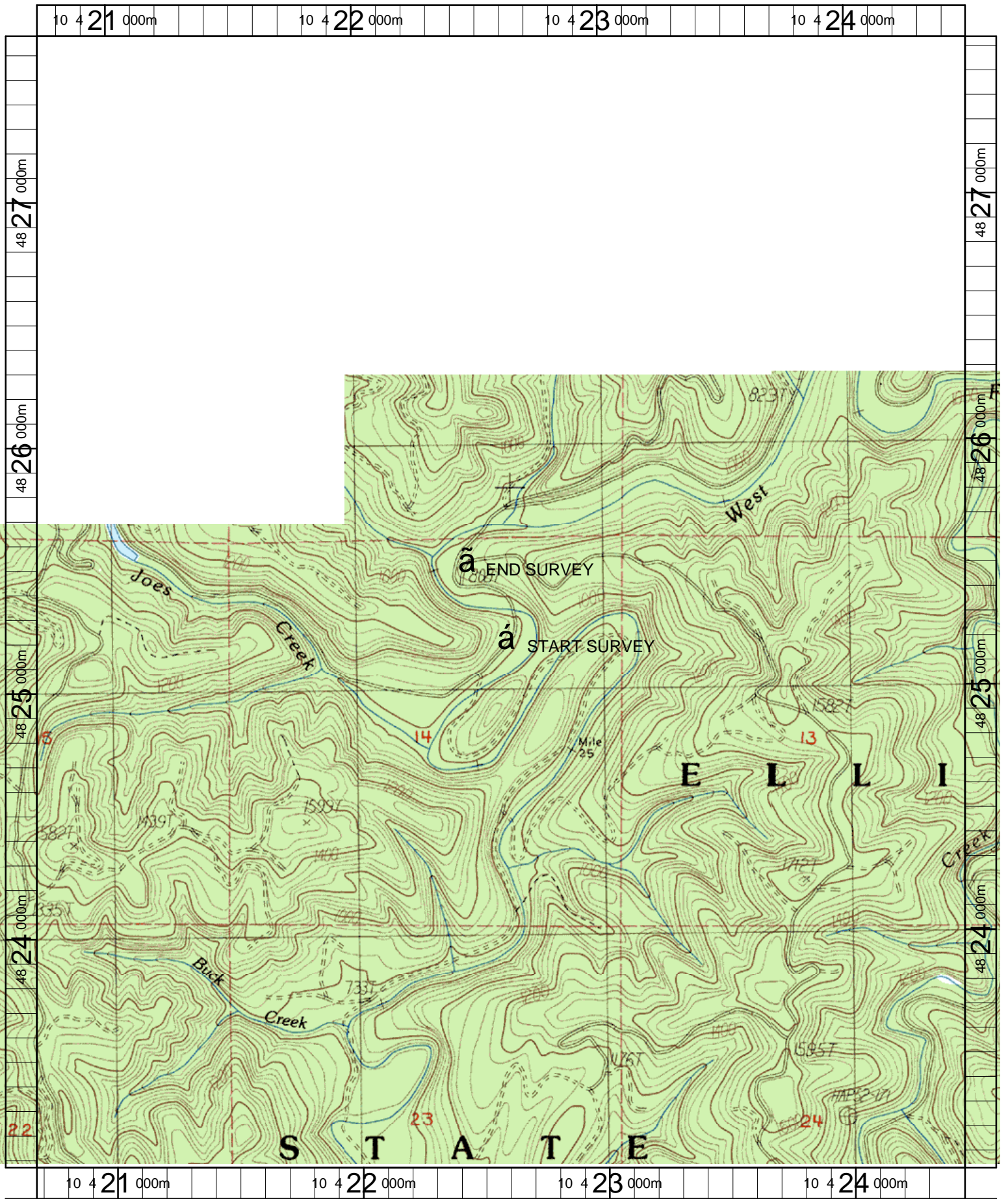
Unit	Side	Zone	Surface	Slope	Cover (percent)				Diameter class (cm)					Notes	
					Canopy	Shrub	Grass		3-15	15-30	30-50	50-90	>90		
8	LF	1	HS	40	70	85	15	Conifer							
								Hardwood	3			3			
8	LF	2	HS	75	70	85	5	Conifer							
								Hardwood			1				
8	LF	2	HS	75	65	75	5	Conifer							
								Hardwood			2				
8	RT	1	HT	19	95	0	85	Conifer							
								Hardwood							
8	RT	2	HT	0	95	5	70	Conifer		3	1				
								Hardwood	2						
8	RT	3	HT	-1.5	85	10	85	Conifer			1		3		
								Hardwood							
13	LF	1	HS	28	85	85	10	Conifer							
								Hardwood			3	1			
13	LF	2	HS	35	70	80	20	Conifer							
								Hardwood			1				
13	LF	3	HS	40	85	70	20	Conifer							
								Hardwood		1					
13	RT	1	HT	20	80	30	65	Conifer				1		422390/482540	
								Hardwood						8	
13	RT	2	HT	0	85	30	70	Conifer							
								Hardwood			1				
13	RT	3	HT	0	55	60	35	Conifer							
								Hardwood							
21	LF	1	HS	65	65	90	10	Conifer							
								Hardwood	2		1				
21	LF	2	HS	65	65	90	10	Conifer			1				
								Hardwood			1				
21	LF	3	HS	40	75	70	30	Conifer							
								Hardwood							
21	RT	1	HT	20	50	60	40	Conifer							
								Hardwood	2						
21	RT	2	HT	0	85	40	60	Conifer					2		
								Hardwood	2						
21	RT	3	HT	0	65	45	55	Conifer							
								Hardwood							

Comment Summary

Oregon Plan Monitoring Sites 2002

MONITORING AREA: 3-MS SITE ID: 171 WF MILLICOMA RIVER PRE-TX (MS-1)

<u>UNIT#</u>	<u>TYPE</u>	<u>CHAN</u>	<u>DIST. (m)</u>	<u>COMMENTS</u>	<u>NOTE ESTIMATOR</u>	<u>NOTE NUMERATOR</u>
1	RR	00	20		START SURVEY	START SIGN ON ALDER RIG
4	LP	00	69.3			LOTS OF COHO
8	RR	00	150.4		RIP#1, PHOTO	RIP#1
13	RR	00	256.1		RIP#2	
14	SC	00	269.1			RIP#2
17	LP	00	354.3		COHO	8" FISH
21	LP	01	438.6	TJ/	RIP#3, 8-9" TROUT TJ/	RIP#3
22	RI	11	438.6		ACW=3 OTTER CREEK	OTTER CREEK
25	GL	00	516.1		END SURVEY~100M BEL	END SURVEY, 3 REDDS



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

Location: 10 422579 E 4825357 N
 Caption: WF MILLICOMA RESTORATION SITE - MILLICOMA BASIN