

REACH 1

T23S-R11W-S01SE

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	2.5	VWI Range:	1 - 4

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	494	1,708	0
Secondary	26	28	0

Channel Dimensions (m)

<u>Wetted</u>		<u>Active</u>		<u>Floodprone</u>	<u>First Terrace</u>
Width	3.1	Width	7.6	14.3	17.8
Depth	0.25	Height	0.6	1.2	1.7
		W:D ratio	13.6	Entrenchment	1.9
Stream Flow Type:	MF	Water temp (C):		12.0 - 12.0	
Avg. Unit Gradient:	1.8%	Habitat Units/100m:		8.7	

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	TH	MT
Riparian Vegetation:	D15	G

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding:	3%	Reach avg: 87%
Undercut Banks:	3%	Range: 61 - 100

Large Wood Debris

	<u>Total</u>	<u>Total / 100m</u>
All pieces (>=3m x 0.15m):	181	36.6
Volume (m ³):	159	32.1
Key pieces (>=10m x 0.60m):	5	1.0

OREGON DEPARTMENT OF FISH AND WILDLIFE

KNIFE CREEK UPPER PRE-TX (MS-164)

HABITAT INVENTORY

Report Date: 3/17/03

Survey Date:

7/2/02

REACH 1

T23S-R11W-S01SE

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	
CASCADE/BEDROCK	1	14	6.0	0.20	85	0	0	0	0	0	0	100	
GLIDE	1	8	3.0	0.20	23	5	0	10	60	25	5	0	
POOL-BACKWATER	2	6	1.4	0.22	8	3	8	43	32	15	3	0	
POOL-DAMMED	1	13	3.5	0.55	44	0	5	16	42	5	0	32	
POOL-ISOLATED	2	3	0.9	0.13	3	2	2	12	70	13	3	0	
POOL-LATERAL SCOUR	12	124	4.0	0.50	497	27	3	15	42	16	4	21	
POOL-STRAIGHT SCOUR	1	11	2.0	0.40	22	0	0	0	11	42	42	5	
RAPID/BEDROCK	5	127	3.5	0.15	474	18	0	5	14	6	4	73	
RAPID/BOULDERS	7	90	2.6	0.13	230	32	0	6	39	34	18	3	
RIFFLE	4	85	2.8	0.11	267	5	0	6	48	42	4	0	
RIFFLE W/ POCKETS	1	17	1.0	0.10	17	3	6	12	47	29	6	0	
STEP/BEDROCK	1	1	2.0	0.05	1	0	0	0	0	0	0	100	
STEP/BOULDERS	1	14	2.0	0.10	28	9	0	5	30	30	30	5	
STEP/COBBLE	3	9	4.0	0.08	35	0	0	3	80	17	0	0	
STEP/LOG	1	0	2.0	0.05	1	0	0	10	80	10	0	0	
Total:	43	520	3.1	0.25	1,735	104	Avg	2	10	41	20	7	20

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	5	22	1.6	0.25	55	3.14%	5	9.2
Scour Pools	13	134	3.9	0.49	519	29.89%	27	5.2
Glides	1	8	3.0	0.20	23	1.35%	5	21.4
Riffles	5	102	2.4	0.11	284	16.39%	8	2.8
Rapids	12	217	3.0	0.14	704	40.58%	50	7.1
Cascades	1	14	6.0	0.20	85	4.91%	0	0.0
Step/Falls	6	23	3.0	0.07	65	3.75%	9	13.8
Dry	0	0			0	0.00%	0	0.0
Culverts	0	0			0	0.00%	0	0.0

REACH 1**T23S-R11W-S01SE****REACH 1**

POOL SUMMARY

	<u>Total</u>	<u># / Km</u>
All Pools:	18	36.4
Pools >=1m deep:	0	0.0
Complex pools (LWD pieces>=3):	7	14.2
Pool frequency (channel widths/pool):	3.8	
Residual pool depth (avg):	0.39	

RIPARIAN ZONE VEGETATION SUMMARY

REACH 1 **REACH 1**

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

Total hardwoods/1000	732
Total conifers/1000 ft	61
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	5.0	0.0	2.0	0.0	0.7	0.0	7.7
15-30cm	0.0	1.7	0.0	1.3	0.0	1.0	0.0	4.0
30-50cm	0.0	0.0	0.7	0.0	0.3	0.3	1.0	0.3
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	6.7	0.7	3.3	0.3	2.0	0.3	4.0

Canopy closure and ground cover

	Zone 1 0-10 meters (%)	Zone 2 10 - 20 meters (%)	Zone 3 20 - 30 meters (%)
Canopy closure	77	83	75
Shrub cover	38	63	55
Grass/forb cover	54	33	36

Predominant landform in each zone

	Zone 1 0-10 meters (%)	Zone 2 10 - 20 meters (%)	Zone 3 20 - 30 meters (%)
Hillslope	67	100	67
High terrace	33	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	33
Riprap	0	0	0
Surface slope (%)	28	63	40

RIPARIAN ZONE VEGETATION

Reach 1

Reach 1

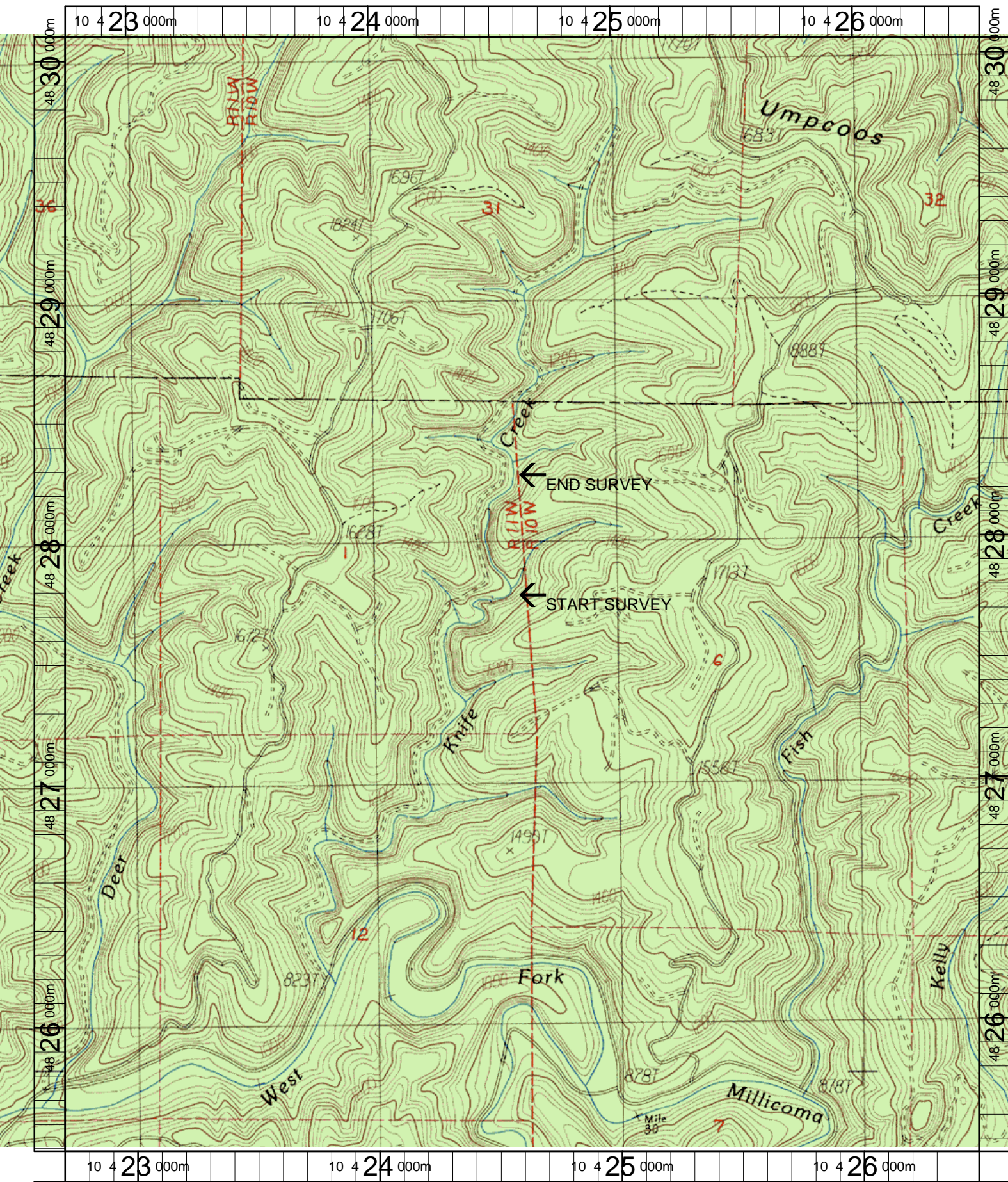
Unit	Side	Zone	Surface	Slope	Cover (percent)				Diameter class (cm)					Notes	
					Canopy	Shrub	Grass		3-15	15-30	30-50	50-90	>90		
14	LF	1	HS	50	85	5	75	Conifer							NO GPS- POOR CVG
								Hardwood	3						
14	LF	2	HS	90	85	30	70	Conifer							
								Hardwood	2	1					
14	LF	3	RB	0	55	20	60	Conifer							
								Hardwood		1					
14	RT	1	HS	25	40	75	25	Conifer							
								Hardwood							
14	RT	2	HS	40	85	20	75	Conifer				1			
								Hardwood	2						
14	RT	3	HS	50	45	5	95	Conifer							
								Hardwood	2		1				
18	LF	1	HS	40	85	75	20	Conifer							EST. DUE TO BRUSH/STEEP
								Hardwood	2						
18	LF	2	HS	80	90	85	10	Conifer							
								Hardwood	2	1					
18	LF	3	RB	0	95	60	30	Conifer							
								Hardwood		1					
18	RT	1	HS	50	75	60	25	Conifer							
								Hardwood		2					
18	RT	2	HS	60	80	90	5	Conifer				1			
								Hardwood							
18	RT	3	HS	60	80	80	20	Conifer							
								Hardwood							
34	LF	1	HT	5	90	10	90	Conifer							EST. Z 2 & 3 BOTH SIDES
								Hardwood	7	1					
34	LF	2	HS	40	90	70	30	Conifer							
								Hardwood		2					
34	LF	3	HS	60	95	85	10	Conifer							
								Hardwood		1					
34	RT	1	HT	0	85	5	90	Conifer							
								Hardwood	3	2					
34	RT	2	HS	70	70	85	10	Conifer							
								Hardwood							
34	RT	3	HS	70	80	80	0	Conifer				1			
								Hardwood							

Comment Summary

Oregon Plan Monitoring Sites 2002

MONITORING AREA: 3-MS SITE ID: 164 KNIFE CREEK UPPER PRE-TX (MS-1)

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
1	CR	00	14.2			START @ TJ
3	SR	00	24.2		H = .4M	T = 12C
5	LP	00	69.5			JUV. COHO
7	SL	00	83.6		H = .3M	
11	LP	01	128.5			COHO FRY
14	LP	00	153.5			COHO FRY, RIP @ TOP
17	LP	00	209.3			COHO FRY
22	LP	00	275.8			COHO FRY (15-20)
24	LP	00	294.9	DJ		
25	RB	00	300.6	SS/		
30	SP	00	337.7			COHO
34	LP	00	375.4			DRY GULLY ON LEFT
37	LP	00	414			OLD REDD @ TAILOUT
38	SC	00	417.2			COHO THROUGHOUT
39	RI	00	471.4			/BEGIN CLEAR CUT (RECEN
42	GL	00	490.7			COHO FRY
43	SC	00	493.9		END	END SIGN ON 15-30 ALDER/



Name: ELK PEAK
 Date: 3/20/2003
 Scale: 1 inch equals 1666 feet

Location: 10 424607 E 4827778 N
 Caption: KINFE CREEK UPPER RESTORATION SITE - MILLICOMA BASIN