

ODFW AQUATIC INVENTORY PROJECT
OREGON PLAN FOR SALMON & WATERSHEDS
STREAM RESTORATION HABITAT REPORT

STREAM: West Fork Millicoma River (MS-219)
BASIN: Millicoma River
SURVEY TYPE: Post-Tx
DATE: March 2, 2004
SURVEY CREW: Michael Scheu, Jeremiah Bernier
REPORT PREPARED BY: Paul Jacobsen
BASIN AREA: 67.7 km²
USGS MAPS: Elk Peak
ECOREGION: Coast Range Sedimentary

GENERAL DESCRIPTION:

The West Fork Millicoma River habitat survey extended 487 meters. The channel was alternately constrained by hillslopes and terraces in a broad valley floor. The average valley width index was 3.6 (range: 2.5-4.5). Land use for the reach was mature (50-90 cm dbh) and second growth (15-30 cm dbh) trees. The average unit gradient was 1.0 percent. Scour pools (58%) and riffles (19%) dominated stream habitat. Gravel (41%) and cobble (24%) dominated stream substrate. Wood volume was high at 39.9 m³/100m.

COMMENTS:

There were no potential barriers to upstream fish migration in the surveyed length.

The crew noted several habitat structures during the survey.

OREGON DEPARTMENT OF FISH AND WILDLIFE WEST FORK MILLICOMA POST-TX (MS-219)
HABITAT INVENTORY Report Date: 6/16/2004 Survey Date: 3/2/2004

REACH 1		T23S-R10W-S08SE					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	18	8.7	0.50	155	0	0	2	2	0	5	91	
CASCADE/BOULDERS	1	8	0.8	0.10	6	0	0	5	48	48	0	0	
CULVERT CROSSING	1	17	2.9	0.40	50	0	18	18	18	18	27	0	
POOL-BACKWATER	2	25	2.6	0.33	73	0	23	39	20	0	0	18	
POOL-DAMMED	1	32	8.5	1.30	268	0	0	10	5	5	5	76	
POOL-LATERAL SCOUR	9	201	7.6	1.03	1,596	0	0	13	46	26	4	10	
POOL-PLUNGE	2	49	14.0	1.45	798	0	3	13	32	5	2	44	
RAPID/BOULDERS	1	18	11.0	0.30	198	0	0	10	40	50	0	0	
RIFFLE	5	132	5.9	0.33	803	0	0	4	66	27	3	0	
STEP/BEDROCK	1	2	0.7	0.05	1	0	5	5	18	18	9	45	
STEP/COBBLE	4	20	8.8	0.26	174	0	0	6	54	40	0	0	
STEP/STRUCTURE	1	1	3.6	0.40	2	0	0	0	0	0	0	100	
Total:	29	522	7.0	0.64	4,124	0	Avg: 3	11	41	24	4	18	

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	3	57	4.6	0.65	341	8.26%	0	0.0
Scour Pools	11	250	8.8	1.11	2,394	58.06%	0	0.0
Glides	0	0			0	0.00%	0	0.0
Riffles	5	132	5.9	0.33	803	19.46%	0	0.0
Rapids	1	18	11.0	0.30	198	4.80%	0	0.0
Cascades	2	26	4.8	0.30	161	3.91%	0	0.0
Step/Falls	6	22	6.6	0.25	177	4.30%	0	0.0
Dry	0	0			0	0.00%	0	0.0
Culverts	1	17	2.9	0.40	50	1.22%	0	0.0

POOL SUMMARY			
	Total	Total of all Channel Lengths	
		# / Km	Primary Channel Length # / Km
All Pools:	14	26.8	28.8
Pools >=1m deep:	7	13.4	14.4
Complex pools (LWD pieces>=3):	3	5.8	6.2
Pool frequency (channel widths/pool):	3.4		
Residual pool depth (avg):	0.78		

Comment Summary

Oregon Plan Monitoring Sites 2002

MONITORING AREA: **3-MS** SITE ID: **219** WEST FORK MILLICOMA RIVER POS

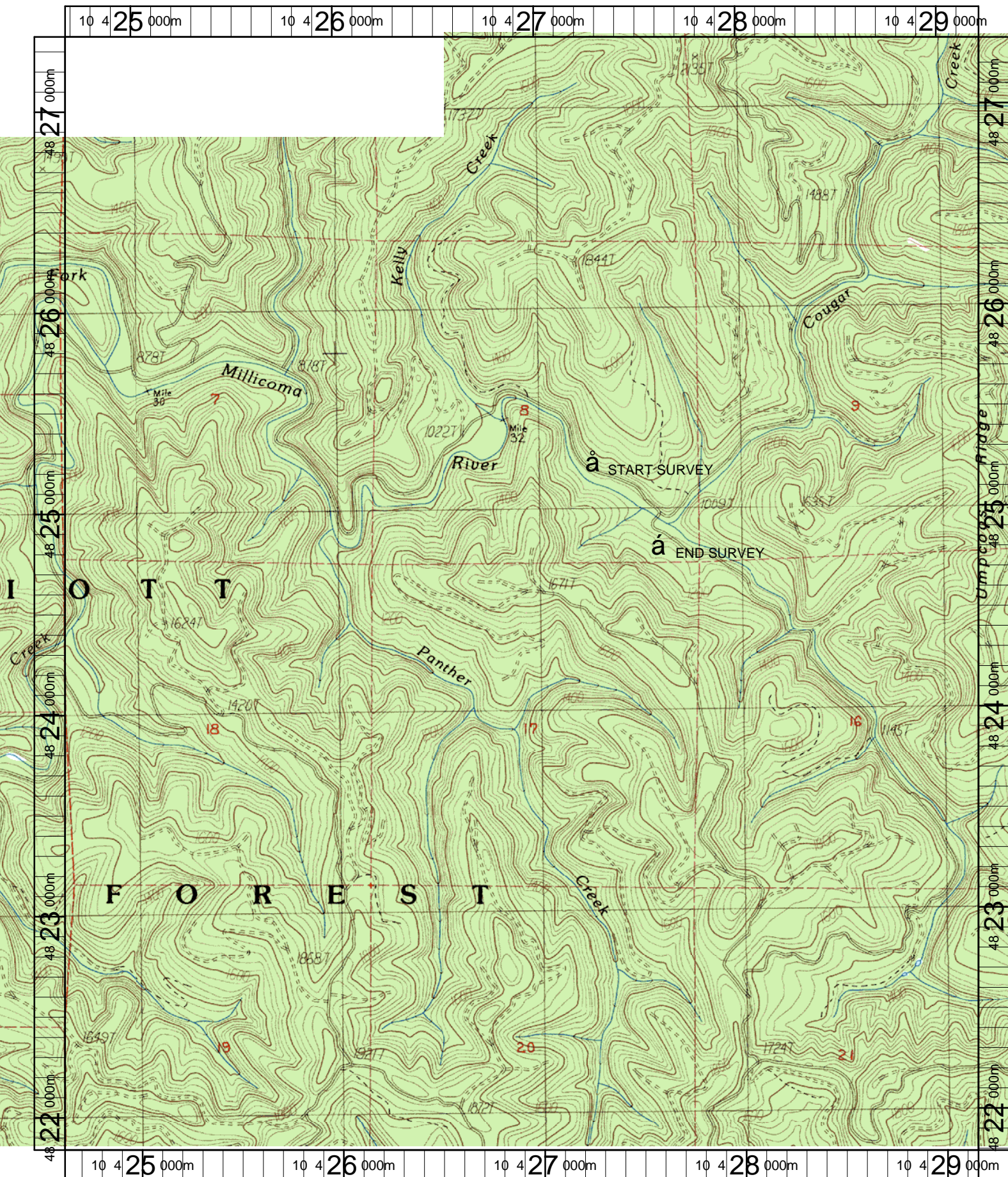
UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
1	LP	01	15.5	-/TJ	T=8C	
2	SR	11	15.5		T=8C; ACW=2.0M	
5	LP	00	60		SPAWNING GRAVEL=16M	
7	LP	00	103.7	HS BV	STH REDD; SG=8Msq	
8	SC	00	105.2	CE SS/-		
9	LP	00	128.6	BV HS	SG=8Msq; STH REDD; FIS	
10	RB	00	146.6	BV HS		
11	LP	00	183.6		FISH BONES	
12	PP	00	194.6	BV	SG=4Msq	
13	CR	00	212.4	HS		
14	DP	00	243.9	BV	STH	
15	LP	00	265.1	BV	STH REDD; SP=10Msq	
16	RI	00	290.1	BV -/SS	STH REDD; SG=30Msq	
17	RI	01	314.5	BV	SG=8Msq	
18	CB	11	314.5		T=7.5C; ACW=1.8M	
19	BW	10	314.5	BV		
20	LP	00	337.7	BV		
21	RI	00	354.7	HS	SG=10Msq	
23	SC	00	374.2	BV		
24	LP	00	387.2	HS BV	SALMONID JUVENILES	
25	SC	00	389.4		SG=4Msq	

Comment Summary

Oregon Plan Monitoring Sites 2002

MONITORING AREA: 3-MS SITE ID: 219 WEST FORK MILLICOMA RIVER POS

<u>UNIT#</u>	<u>TYPE</u>	<u>CHAN</u>	<u>DIST. (m)</u>	<u>COMMENTS</u>	<u>NOTE ESTIMATOR</u>	<u>NOTE NUMERATOR</u>
26	PP	00	426.9	-/SS		
27	SS	00	427.4		H=0.4M; 2.5x4.2M CULVE	
28	CC	00	444.7	CC		
29	RI	00	486.5	CS/CS	SG=8Msq	



Name: ELK PEAK
 Date: 1/21/2004
 Scale: 1 inch equals 2000 feet

Location: 10 426909 E 4824583 N
 Caption: WF MILLICOMA #219 RESTORATION SITE - MILLICOMA BASIN