

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

STREAM: Sixes River Tributary (MS-192)
BASIN: Sixes River
SURVEY TYPE: Pre-Tx
DATE: February 25, 2004
SURVEY CREW: Michael Scheu, Jeremiah Bernier
REPORT PREPARED BY: Paul Jacobsen
BASIN AREA: 3.2 km²
USGS MAPS: Barklow Mtn.
ECOREGION: Coast Range California Extension

GENERAL DESCRIPTION:

The Sixes River Tributary habitat survey extended 663 meters. The channel was alternately constrained by hillslopes and terraces in a broad valley floor. The average valley width index was 8.4 (range: 4.0-20.0). Land use for the reach was young (3-15 cm dbh) and second growth (15-30 cm dbh) trees. The average unit gradient was 2.8 percent. Rapids (49%) and riffles (23%) dominated stream habitat. Gravel (39%) and cobble (35%) dominated stream substrate. Wood volume was low at 6.0 m³/100m.

COMMENTS:

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

REACH 1

T32S-R13W-S10SW

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	8.4	VWI Range:	4 - 20

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	663	2,535	0
Secondary	82	257	1

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 6	<u>First Terrace</u> n = 6
Width: 3.7	Width: 6.4	15.7 (7.5 - 34)	23.3 (9 - 49)
Depth: 0.35	Height: 0.6	1.1 (0.8 - 1.2)	2.1 (1.2 - 5)

W:D ratio: 11.5

Entrenchment (ACW:FPW ratio): 2.5

Stream Flow Type: HF

Habitat Units/100m (total channel length): 7.3

Average Unit Gradient: 2.8%

Habitat Units/100m (primary channel length): 8.1

Water temperature (°C): 10.0 - 10.0

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	YT	ST
Riparian Vegetation:	D15	S

Bank Condition and Shade

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

Large Wood Debris

	<u>Total</u>	<u>Total / 100m primary channel</u>
All pieces (>=3m x 0.15m):	87	13.1
Volume (m ³):	39	6.0
Key pieces (>=12m x 0.60m):	0	0.0

REACH 1		T32S-R13W-S10SW					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/BOULDERS	6	55	2.9	0.26	165	0	0	8	23	48	20	0	
POOL-ISOLATED	1	10	15.0	0.30	150	0	80	20	0	0	0	0	
POOL-LATERAL SCOUR	11	85	3.5	0.57	298	0	0	48	39	10	1	1	
POOL-PLUNGE	7	28	4.2	0.49	115	0	3	31	48	17	1	0	
PUDDLED UNIT	1	16	0.5	0.05	8	0	0	20	65	10	5	0	
RAPID/BOULDERS	16	358	3.8	0.28	1,369	0	0	1	36	55	8	1	
RIFFLE	9	179	3.5	0.28	651	0	0	6	51	32	8	3	
STEP/COBBLE	3	13	2.7	0.17	36	0	0	0	33	58	8	0	
Total:	54	744	3.7	0.35	2,792	0	Avg: 2	17	39	35	7	1	

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	10	15.0	0.30	150	5.37%	0	0.0
Scour Pools	18	113	3.7	0.54	413	14.80%	0	0.0
Glides	0	0			0	0.00%	0	0.0
Riffles	9	179	3.5	0.28	651	23.31%	0	0.0
Rapids	16	358	3.8	0.28	1,369	49.02%	0	0.0
Cascades	6	55	2.9	0.26	165	5.91%	0	0.0
Step/Falls	3	13	2.7	0.17	36	1.30%	0	0.0
Dry	1	16	0.5	0.05	8	0.29%	0	0.0
Culverts	0	0			0	0.00%	0	0.0

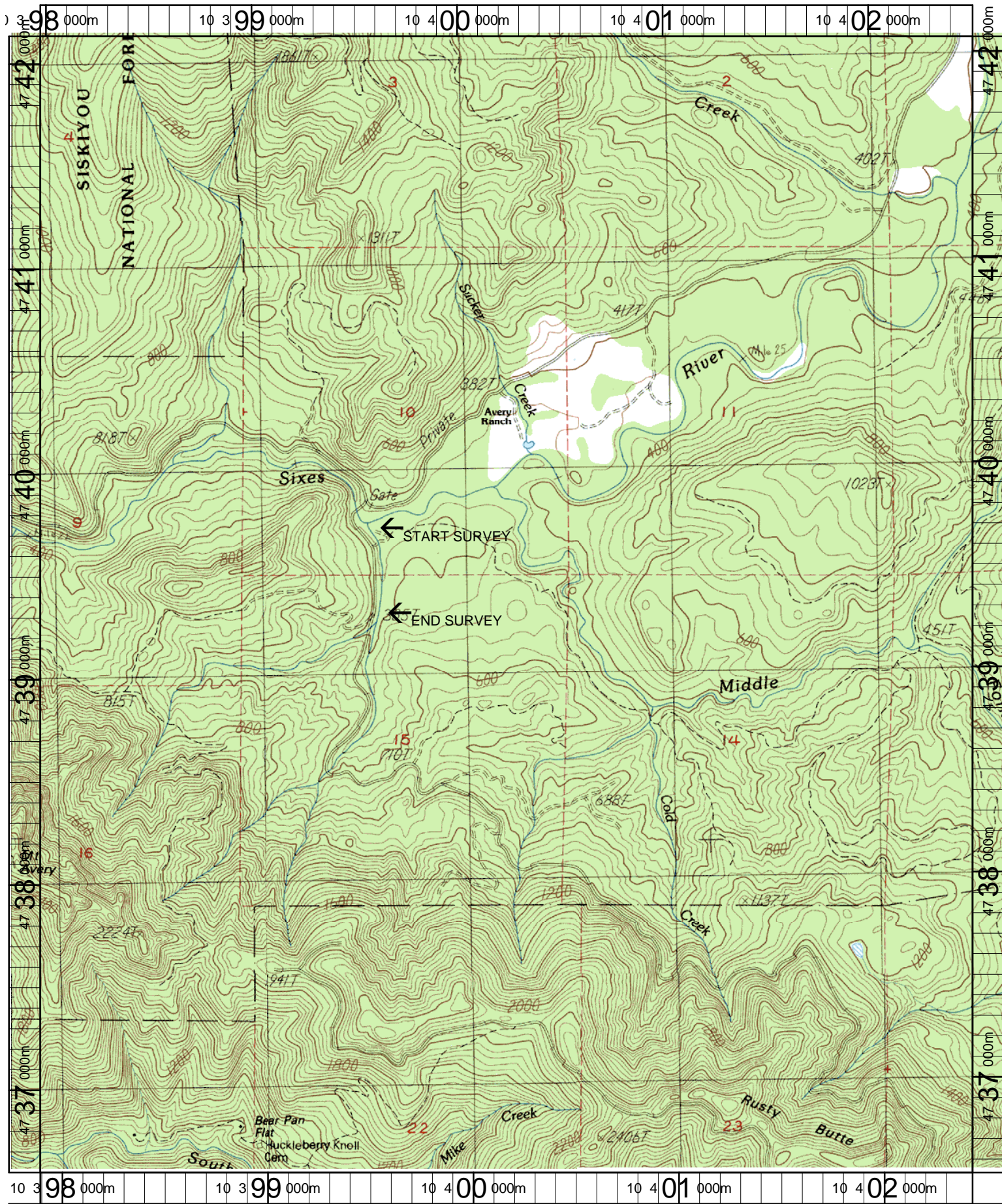
POOL SUMMARY			
	Total	Total of all Channel Lengths # / Km	Primary Channel Length # / Km
All Pools:	19	25.5	28.7
Pools >=1m deep:	0	0.0	0.0
Complex pools (LWD pieces>=3):	5	6.7	7.5
Pool frequency (channel widths/pool):	6.1		
Residual pool depth (avg):	0.29		

Comment Summary

Oregon Plan Monitoring Sites 2002

MONITORING AREA: 5-SC SITE ID: 192 SIXES RIVER UNNAMED TRIB PRE-T

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
8	RI	00	92.2		END OF UNIT OLD START	
10	LP	01	105.1	TJ/	NOT ON MAP	
11	RI	11	105.1		T=10 C; ACW=2.0	
21	IP	10	200.9		RSN CLUSTER	
24	CB	11	240.3		ACW=2.0	
34	LP	00	356.9		STEELHEAD	
35	RB	01	373.8	/TJ	NOT ON MAP	
36	CB	11	373.8		ACW=1.2	
52	RB	00	654.6	/CE		



Name: BARKLOW MT
 Date: 1/23/2004
 Scale: 1 inch equals 2000 feet

Location: 10 400196 E 4739335 N
 Caption: SIXES RIVER UNNAMED TRIBUTARY RESTORATION SITE
 - SIXES BASIN