

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

STREAM: Roaring River Tributary (W-56)  
BASIN: South Santiam River  
SURVEY TYPE: Pre-Tx  
DATE: February 22, 2000  
SURVEY CREW: Jennifer Bock, Barry Thom  
REPORT PREPARED BY: Paul Jacobsen  
BASIN AREA: 4.4 km<sup>2</sup>  
USGS MAPS: Jordan  
ECOREGION: Willamette Valley Foothills

**GENERAL DESCRIPTION:**

The Roaring River Tributary habitat survey extended 513 meters. The channel was unconstrained in a broad valley floor. The average valley width index was 4.5. Land use for the reach was second growth (15-30 cm dbh) trees. The average unit gradient was 3.6 percent. Rapids (69%) dominated stream habitat. Cobble (30%), sand (27%) and gravel (24%) dominated stream substrate. Wood volume was low at 15.4 m<sup>3</sup>/100m.

**COMMENTS:**

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

REACH 1

T11S-R01E-S05SE

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	0%	Multiple Terraces	100%
Open V-shape	0%	Wide Floodplain	0%
Valley Width Index 4.5		VWI Range: 4.5 - 4.5	

Channel Morphology (Percent Reach Length)

<u>Constrained</u>		<u>Unconstrained</u>	
Hillslope	0%	Single Channel	100%
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	513	1,901	0
Secondary	169	369	0

Channel Dimensions (m)

<u>Wetted</u>		<u>Active</u>		<u>Floodprone</u>	<u>First Terrace</u>
Width	3.2	Width	4.7	11.9	8.2
Depth	0.31	Height	-0.4	0.8	0.9
		W:D ratio	11.9	Entrenchment	2.4

Stream Flow Type:	HF	Water temp (C):	-
Avg. Unit Gradient:	3.6%	Habitat Units/100m:	10.1

**Riparian, Bank, and Wood Summary**

	<u>Primary</u>	<u>Secondary</u>
Land Use:	ST	
Riparian Vegetation:	M30	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</u>
All pieces (>=3m x 0.15m):	65	12.7
Volume (m <sup>3</sup> ):	76	14.8
Key pieces (>=10m x 0.60m):	7	1.4

OREGON DEPARTMENT OF FISH AND WILDLIFE

ROARING RIVER TRIB PRE-TX (W-56)

HABITAT INVENTORY

Report Date: 11/12/03

Survey Date:

2/22/00

REACH 1

T11S-R01E-S05SE

REACH 1

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	2	24	4.8	0.30	112	0	0	14	19	52	16	0
CULVERT CROSSING	1	12	1.0	0.25	12	0	30	20	10	40	0	0
POOL-ALCOVE	2	36	0.8	0.23	22	0	58	42	0	0	0	0
POOL-BACKWATER	3	10	2.2	0.33	20	0	37	47	4	12	0	0
POOL-DAMMED	7	54	4.6	0.56	251	0	15	55	16	12	1	0
POOL-LATERAL SCOUR	6	44	3.2	0.49	139	0	13	23	35	28	0	2
POOL-PLUNGE	2	6	4.6	0.58	27	0	3	24	53	18	3	0
POOL-STRAIGHT SCOUR	2	18	3.2	0.65	55	0	3	18	18	62	0	0
RAPID/BOULDERS	19	455	3.2	0.17	1,570	0	4	16	27	48	2	4
RIFFLE	2	16	2.7	0.18	43	0	6	24	35	34	0	0
STEP/LOG	6	8	2.8	0.13	19	0	3	35	41	21	0	0
<b>Total:</b>	<b>52</b>	<b>682</b>	<b>3.2</b>	<b>0.31</b>	<b>2,270</b>	<b>0</b>	<b>Avg 11</b>	<b>28</b>	<b>26</b>	<b>33</b>	<b>2</b>	<b>1</b>

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	12	100	3.3	0.45	293	12.91%	0	0.0
Scour Pools	10	67	3.4	0.54	221	9.73%	0	0.0
Glides	0	0			0	0.00%	0	0.0
Riffles	2	16	2.7	0.18	43	1.89%	0	0.0
Rapids	19	455	3.2	0.17	1,570	69.18%	0	0.0
Cascades	2	24	4.8	0.30	112	4.93%	0	0.0
Step/Falls	6	8	2.8	0.13	19	0.82%	0	0.0
Dry	0	0			0	0.00%	0	0.0
Culverts	1	12	1.0	0.25	12	0.53%	0	0.0

POOL SUMMARY

	Total	# / Km
All Pools:	22	42.9
Pools >=1m deep:	0	0.0
Complex pools (LWD pieces>=3):	5	9.8
Pool frequency (channel widths/pool):	6.5	
Residual pool depth (avg):	0.34	

**STREAM SUMMARY**

**ROARING RIVER TRIB PRE-TX (W-56)**

Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Total Area (m <sup>2</sup> )	Substrate						Large Boulders (#>0.5m)
					Percent Wetted Area						
					S/O	Snd	Grvl	Cbl	Bldr	Bdrk	
52	682	3.2	0.31	2,270	11	28	26	33	2	1	

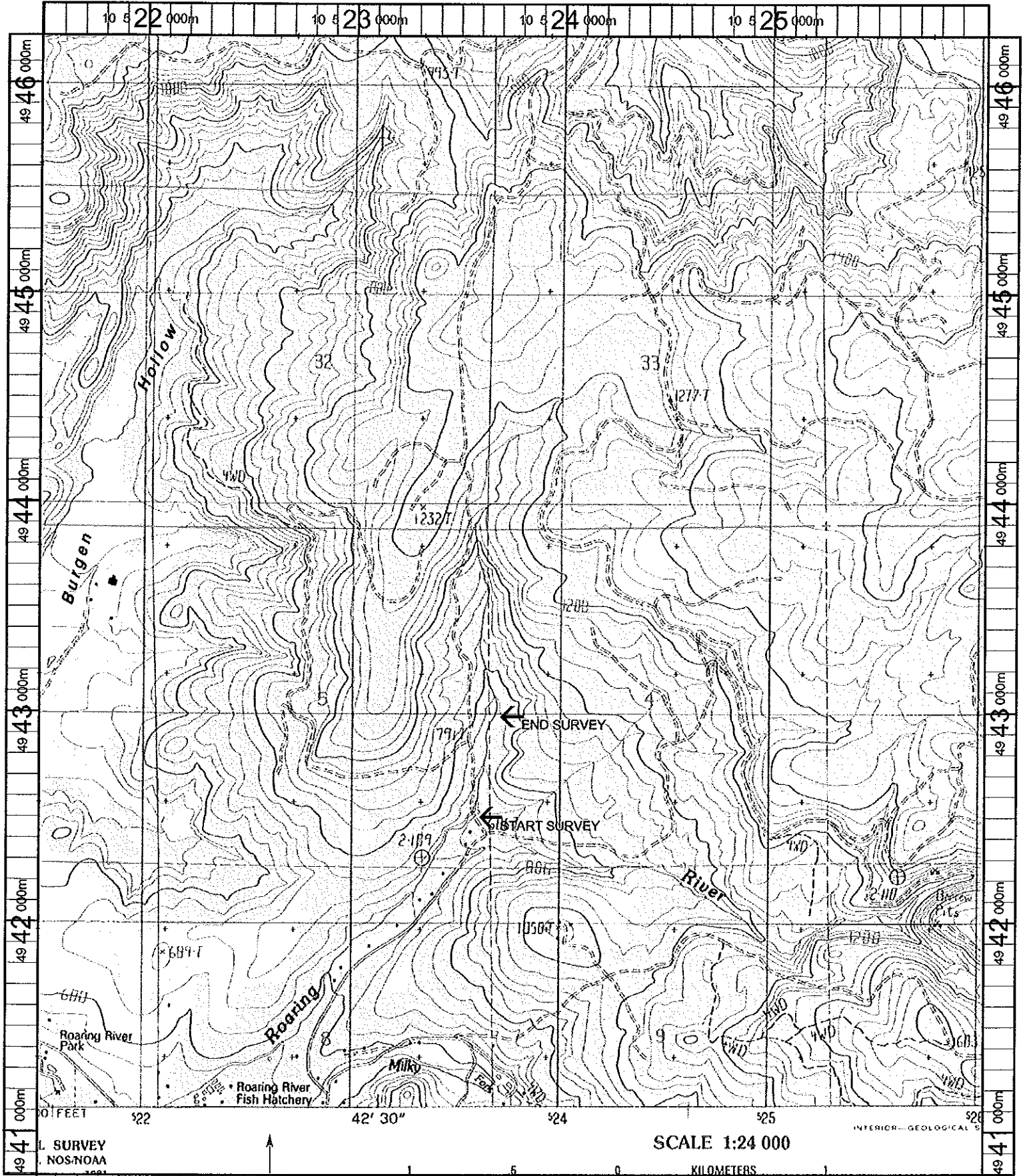
Habitat Group	Wetted Area	
	(m <sup>2</sup> )	Percent
Dammed & BW Pools	293	12.91%
Scour Pools	221	9.73%
Glides	0	0.00%
Riffles	43	1.89%
Rapids	1,570	69.18%
Cascades	112	4.93%
Step/Falls	19	0.82%
Dry	0	0.00%
Culverts	12	0.53%

# Comment Summary

## Restoration Monitoring Sites 2003

MONITORING AREA: 6-LC    SITE ID: 56    ROARING RIVER TRIB PRE-TX (W-56)

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
1	CC	00	12.1	CC		DIAM=1.2,NO STEP TO C
2	LP	01	25.8	/TJ		
3	RI	11	25.8			TRIBUTARY
13	DP	00	158.2	DJ		NOT COMPLETELY
14	RB	00	167.8			JAMMING
16	CB	01	209.3	DJ		NOT COMPLETELY
17	PP	01	212.5			JAMMING
18	SL	01	214.5			H= 0.6
22	SL	01	231.8			H= 0.4
28	SL	00	279.3			FLOW UNDER #25
32	SL	00	315.2			H= 0.6
36	SL	00	346.9			H= 0.3
38	RB	01	383.2	/TJ?		
51	SL	00	505.9			H= 0.35



U.S. SURVEY  
NO. 1100A

SCALE 1:24 000

INTERIOR—GEOLOGICAL SURVEY

Name: JORDAN  
Date: 10/13/100  
Scale: 1 inch equals 2000 feet

Location: 10 523666 E 4943495 N  
Caption: ROARING RIVER TRIBUTARY RESTORATION SITE  
*S. Sandram Keith*