

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

STREAM: Tom Fry Creek (S-350)
BASIN: Rogue River
SURVEY TYPE: Post-Tx
DATE: October 4, 2007
SURVEY CREW: Scott Kuhn, Drew Harper
REPORT PREPARED BY: Paul Jacobsen
BASIN AREA: 4.5 km²
USGS MAPS: Agness
ECOREGION: Coast Range Coastal Uplands

GENERAL DESCRIPTION:

The Tom Fry Creek habitat survey extended 511 meters. The channel was constrained by hillslopes in a steep V-shaped valley. The average valley width index was 1.2 (range: 1.0-1.5). Land use for the reach was mature (50-90 cm dbh) and young (3-15 cm dbh) trees. The average unit gradient was 7.3 percent. Riffles (46%) and rapids (31%) dominated stream habitat. Cobble (43%) and gravel (38%) dominated stream substrate. Wood volume was moderate at 27.3 m³/100m.

COMMENTS:

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

REACH 1

T35S-R12W-S13NE

REACH 1

Valley and Channel Summary

Valley Characteristics (Percent Reach Length)

<u>Narrow Valley Floor</u>		<u>Broad Valley Floor</u>	
Steep V-shape	100%	Constraining Terraces	0%
Moderate V-shape	0%	Multiple Terraces	0%
Open V-shape	0%	Wide Floodplain	0%
Valley Width Index	1.2	VWI Range:	1 - 1.5

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 Channel	511	1,438	1
Secondary Channel	0	0	0
Off-Channel Units	25	45	0

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u>	<i>n = 5</i>	<u>First Terrace</u>	<i>n = 0</i>
Width: 2.6	Width: 3.2	4.2	(3.1 - 6.2)	(-)	
Depth: 0.18	Height: 0.3	0.6	(0.5 - 0.7)	(-)	

W:D ratio: 10.7
 Stream Flow Type: MF
 Average Unit Gradient: 7.3%
 Water temperature (°C): 10.0 - 10.0

Entrenchment (ACW:FPW ratio): 1.3
 Habitat Units/100m (total channel length): 7.8
 Habitat Units/100m (primary channel length): 8.2

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	MT	YT
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: 99%
Undercut Banks:	2%	Range: 83 - 100

Large Wood Debris

	<u>Total</u>	<u>Total / 100m primary channel</u>
All pieces (>=3m x 0.15m):	70	13.7
Volume (m ³):	139	27.3
Key pieces (>=12m x 0.60m):	5	1.0

OREGON DEPT OF FISH AND WILDLIFE

TOM FRY CREEK POST-TX (5-SC, 350)

HABITAT INVENTORY

Report Date: 11/14/2007

Survey Date:

10/4/2007

REACH 1		T35S-R12W-S13NE					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	9	3.2	0.30	29	1	0	0	19	5	0	76
CASCADE/BOULDERS	6	84	2.5	0.11	217	76	0	0	20	51	29	0
DRY UNIT	1	16	2.5	0.00	40	25	0	0	10	25	65	0
POOL-LATERAL SCOUR	1	6	3.0	0.40	17	0	0	0	85	15	0	0
POOL-PLUNGE	1	5	4.1	0.90	20	0	0	0	65	35	0	0
POOL-STRAIGHT SCOUR	1	5	1.8	0.45	8	2	0	9	55	36	0	0
RAPID/BOULDERS	10	137	3.2	0.14	465	132	0	0	22	58	20	1
RIFFLE	12	207	2.4	0.15	481	64	8	0	43	43	5	0
RIFFLE W/ POCKETS	6	66	2.8	0.23	202	32	0	1	56	30	11	2
STEP/LOG	3	3	1.1	0.07	4	0	0	0	61	33	2	5
Total:	42	536	2.6	0.18	1,483	332	Avg: 2	1	38	43	13	3

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	0	0			0	0.00%	0	0.0	
Scour Pools	3	15	3.0	0.58	45	3.01%	2	4.5	
Glides	0	0			0	0.00%	0	0.0	
Riffles	18	273	2.6	0.18	683	46.07%	96	14.1	
Rapids	10	137	3.2	0.14	465	31.37%	132	28.4	
Cascades	7	93	2.6	0.14	246	16.60%	77	31.3	
Step/Falls	3	3	1.1	0.07	4	0.27%	0	0.0	
Dry	1	16	2.5	0.00	40	2.68%	25	62.9	
Culverts	0	0			0	0.00%	0	0.0	

POOL SUMMARY			
	<u>Total</u>	Total of all Channel Lengths	
		<u># / Km</u>	Primary Channel Length <u># / Km</u>
All Pools:	3	5.6	5.9
Pools >=1m deep:	0	0.0	0.0
Complex pools (LWD pieces>=3):	0	0.0	0.0
Pool frequency (channel widths/pool):	56.6		
Residual pool depth (avg):	0.43		

OREGON DEPARTMENT OF FISH AND WILDLIFE
HABITAT INVENTORY

TOM FRY CREEK POST-TX
GCG: 5-SC SITE ID: 350

Survey Date 10/4/2007

RIPARIAN ZONE

Report Date: 11/7/2007

VEGETATION SUMMARY

REACH 1

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

Total hardwoods/1000	1483
Total conifers/1000 ft	406
Total conifers >20" dbh/1000 ft	20
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	1.0	4.0	0.0	9.7	3.7	4.3	4.7	18.0
15-30cm	0.0	1.3	0.0	1.3	1.0	2.0	1.0	4.7
30-50cm	0.0	0.3	0.0	0.3	0.7	0.3	0.7	1.0
50-90cm	0.0	0.3	0.3	0.3	0.0	0.0	0.3	0.7
>90cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total/100m2	1.0	6.0	0.3	11.7	5.3	6.7	2.2	8.1

Canopy closure and ground cover

	Zone 1 0-10 meters		Zone 2 10 - 20 meters		Zone 3 20 - 30 meters	
	(%)		(%)		(%)	
Canopy closure	76		83		78	
Shrub cover	7		34		41	
Grass/forb cover	38		43		37	

Predominant landform in each zone

	Zone 1 0-10 meters		Zone 2 10 - 20 meters		Zone 3 20 - 30 meters	
	(%)		(%)		(%)	
Hillslope	100		100		100	
High terrace	0		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		0	
Riprap	0		0		0	
Surface slope (%)	77		75		57	

Summary of Riparian Zone (0-30m) for all reaches

3 transects

Summary of riparian zone (0-100 feet) extrapolated to 1,000 feet along stream

Total hardwoods/1000	1483
Total conifers/1000 ft	406
Total conifers >20" dbh/1000 ft	20
Total conifers >35" dbh/1000 ft	0

Average number of trees in a 5-m wide band

Diameter class (cm)	Zones 1-3	
	<u>0-30 meters</u>	
	<u>Conifer</u>	<u>Hardwood</u>
3-15cm	4.7	18.0
15-30cm	1.0	4.7
30-50cm	0.7	1.0
50-90cm	0.3	0.7
>90cm	0.0	0.0

RIPARIAN ZONE VEGETATION

Reach 1

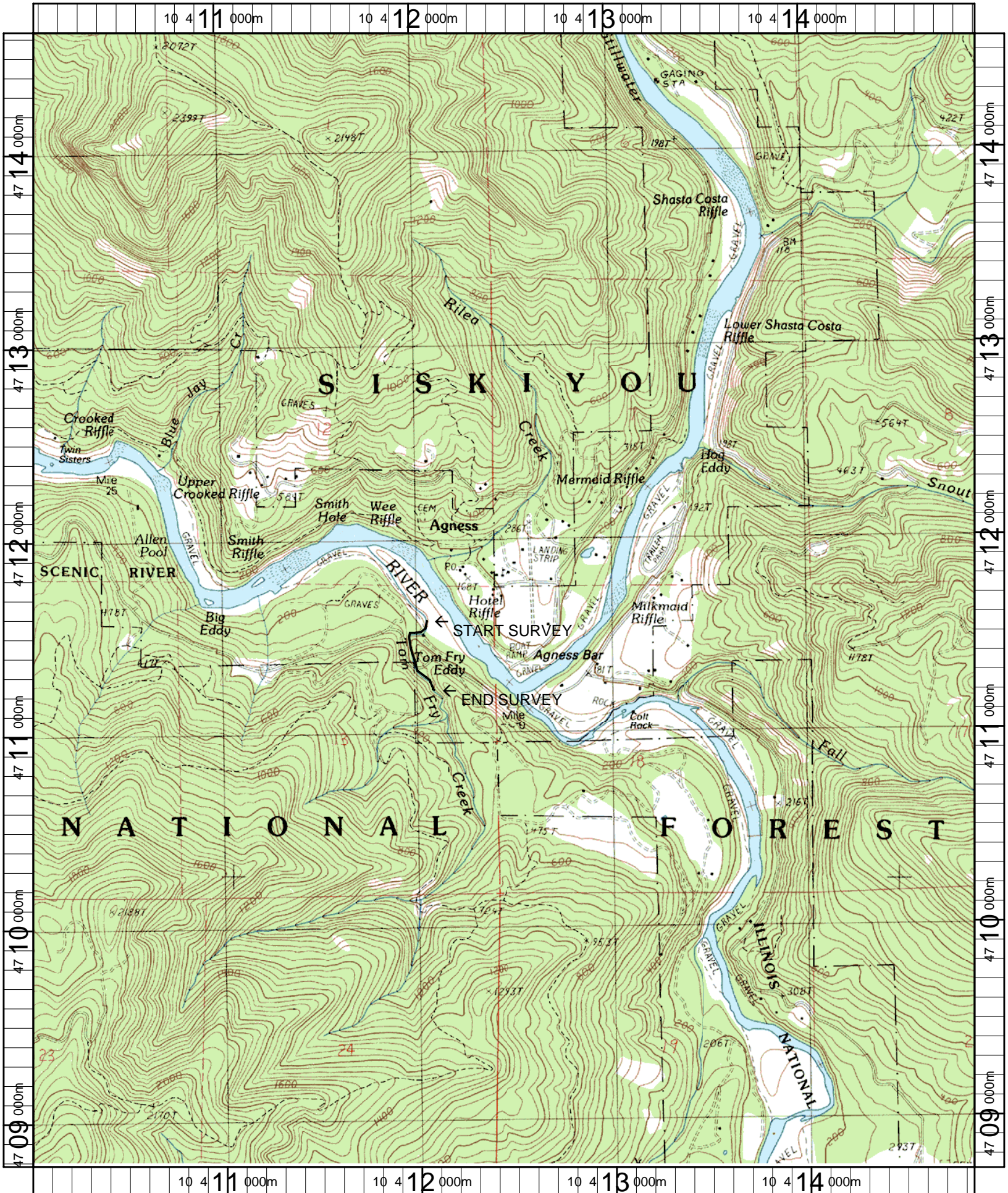
Reach 1

Unit	Side	Zone	Surface	Slope	Cover (percent)				Diameter class (cm)					Notes	
					Canopy	Shrub	Grass		3-15	15-30	30-50	50-90	>90		
12	LT	1	HS	40	80	10	70	Conifer	1						
								Hardwood	1						
12	LT	2	HS	50	85	20	70	Conifer					1		
								Hardwood	6	1					
12	LT	3	HS	25	75	35	45	Conifer			1	1			
								Hardwood	4						
12	RT	1	HS	120	75	0	40	Conifer							RT SIDE ESTIMATED (STEEP)
								Hardwood		1	1				
12	RT	2	HS	100	80	10	80	Conifer							
								Hardwood	1						
12	RT	3	HS	100	85	15	80	Conifer							
								Hardwood		2					
25	LT	1	HS	75	85	10	40	Conifer							
								Hardwood	3	2					
25	LT	2	HS	75	75	45	50	Conifer							
								Hardwood	1	1					
25	LT	3	HS	40	70	55	35	Conifer							
								Hardwood	4		1				
25	RT	1	HS	65	80	5	15	Conifer							
								Hardwood	7	1					
25	RT	2	HS	80	85	10	20	Conifer							
								Hardwood		2	1	1			
25	RT	3	HS	75	75	25	25	Conifer	11	2	1				
								Hardwood		1					
31	LT	1	HS	60	75	10	30	Conifer	2						
								Hardwood	1						
31	LT	2	HS	45	95	80	5	Conifer							
								Hardwood	13						
31	LT	3	HS	40	95	80	5	Conifer							
								Hardwood	5	2					
31	RT	1	HS	100	60	5	35	Conifer							
								Hardwood				1			
31	RT	2	HS	100	75	40	30	Conifer							
								Hardwood	8						
31	RT	3	HS	60	65	35	30	Conifer							
								Hardwood		1					

COMMENT SUMMARY

MONITORING AREA: 5-SC SITE ID: 350 STREAM: TOM FRY CREEK POST-TX

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTES
1	RI	00	12.1		PICTURE NUMBER 100-0073
7	RI	00	86.1	DJ	
12	CB	00	136.4		METRICS AT BEGINNING AT NARROW AREA; ACTUAL UNIT WIDTH=4.0M
13	PP	00	141.2	/LI	
16	RP	00	160.8	DJ	
23	DU	00	237.3		ACW=2.5 ROUGHLY
25	RI	01	254	/TJ	
28	RP	00	301.8	DJ	
29	RI	00	357.8	CC	CULVERT CROSSING, JERRYS FLAT RD, NO DROP, ROUND, STEEL, DIAMETER =
33	SL	00	396.9		H=0.8
37	RB	00	458.3	/LS	
39	SL	00	465.3	DJ	H=0.7



Name: AGNESS
 Date: 4/26/2007
 Scale: 1 inch equals 2000 feet

Location: 10 0412455 E 4711679 N
 Caption: TOM FRY CREEK RESTORATION SITE - ROGUE BASIN