

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

STREAM: Daniels Creek Tributary (MS-213)
BASIN: South Fork Coos River
SURVEY TYPE: Pre-Tx
DATE: July 8, 2003
SURVEY CREW: Lisa Biggs, Chelsey Girt
REPORT PREPARED BY: Paul Jacobsen
BASIN AREA: 1.4 km²
USGS MAPS: Daniels Creek
ECOREGION: Coast Range Sedimentary

GENERAL DESCRIPTION:

The Daniels Creek Tributary habitat survey extended 318 meters. The channel was constrained by terraces in a broad valley floor. The average valley width index was 14.3 (range: 3.0-20.0). Land use for the reach was young (3-15 cm dbh) and second growth (15-30 cm dbh) trees. The average unit gradient was 3.4 percent. Riffles (60%) and glides (26%) dominated stream habitat. Gravel (34%), fines (32%) and sand (30%) dominated stream substrate. Wood volume was very low at 0.8 m³/100m.

COMMENTS:

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

OREGON DEPARTMENT OF FISH AND WILDLIFE

DANIELS CREEK TRIB PRE-TX (MS-213)

HABITAT INVENTORY

Report Date: 12/17/03

Survey Date:

7/8/03

REACH 1

T26S-R12W-S03SW

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	4	0.5	0.30	2	0	85	15	0	0	0	0
CULVERT CROSSING	1	15	1.0	0.08	15	0	17	17	25	0	0	42
DRY UNIT	1	2	0.2	0.00	0	0	16	84	0	0	0	0
GLIDE	2	34	2.6	0.38	111	6	29	39	28	0	5	0
POOL-PLUNGE	1	3	1.6	0.55	5	0	50	40	10	0	0	0
POOL-STRAIGHT SCOUR	1	3	2.1	0.30	5	0	80	15	5	0	0	0
RAPID/BOULDERS	1	25	1.2	0.08	30	6	5	14	48	19	14	0
RIFFLE	18	250	0.9	0.07	238	0	26	29	44	1	0	0
RIFFLE W/ POCKETS	2	19	1.1	0.15	21	0	32	32	37	0	0	0
STEP/BEDROCK	1	1	0.3	0.02	0	0	75	25	0	0	0	0
STEP/LOG	1	2	0.8	0.01	1	0	60	40	0	0	0	0
Total:	30	357	1.0	0.12	428	12	Avg 32	30	34	1	1	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	0	0			0	0.00%	0	0.0
Scour Pools	2	6	1.9	0.43	10	2.36%	0	0.0
Glides	2	34	2.6	0.38	111	25.81%	6	5.4
Riffles	20	269	0.9	0.08	259	60.40%	0	0.0
Rapids	1	25	1.2	0.08	30	7.00%	6	20.0
Cascades	1	4	0.5	0.30	2	0.43%	0	0.0
Step/Falls	2	2	0.6	0.02	2	0.38%	0	0.0
Dry	1	2	0.2	0.00	0	0.11%	0	0.0
Culverts	1	15	1.0	0.08	15	3.50%	0	0.0

POOL SUMMARY

	<u>Total</u>	<u># / Km</u>
All Pools:	2	5.6
Pools >=1m deep:	0	0.0
Complex pools (LWD pieces>=3):	0	0.0
Pool frequency (channel widths/pool):	86.4	
Residual pool depth (avg):	0.35	

STREAM SUMMARY

DANIELS CREEK TRIB PRE-TX (MS-213)

Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Total Area (m ²)	Substrate Percent Wetted Area						Large Boulders (#>0.5m)
					S/O	Snd	Grvl	Cbl	Bldr	Bdrk	
30	357	1.0	0.12	428	32	30	34	1	1	1	12

Habitat Group	Wetted Area	
	(m ²)	Percent
Dammed & BW Pools	0	0.00%
Scour Pools	10	2.36%
Glides	111	25.81%
Riffles	259	60.40%
Rapids	30	7.00%
Cascades	2	0.43%
Step/Falls	2	0.38%
Dry	0	0.11%
Culverts	15	3.50%

RIPARIAN ZONE VEGETATION SUMMARY

REACH 1	REACH 1
Summary of Riparian Zone (0-30m) 2 transects	
Total hardwoods/1000	1006
Total conifers/1000 ft	0
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	5.0	0.0	2.5	0.0	12.5
15-30cm	0.0	0.5	0.0	0.0	0.0	0.5	0.0	1.0
30-50cm	0.0	0.0	0.0	1.5	0.0	0.0	0.0	1.5
50-90cm	0.0	0.0	0.0	1.0	0.0	0.0	0.0	1.0
>90cm	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.5
Total/100m2	0.0	6.0	0.0	7.5	0.0	3.0	0.0	5.5

Canopy closure and ground cover

	Zone 1 0-10 meters	Zone 2 10 - 20 meters	Zone 3 20 - 30 meters
	(%)	(%)	(%)
Canopy closure	70	51	44
Shrub cover	56	29	24
Grass/forb cover	33	60	61

Predominant landform in each zone

	Zone 1 0-10 meters	Zone 2 10 - 20 meters	Zone 3 20 - 30 meters
	(%)	(%)	(%)
Hillslope	25	50	50
High terrace	75	50	50
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 (%)	8	25	18

Summary of Riparian Zone (0-30m) for all reaches 2 transects

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

Total hardwoods/1000	1006
Total conifers/1000 ft	0
Total conifers >20" dbh/1000 ft	0
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	0.0	12.5
15-30cm	0.0	1.0
30-50cm	0.0	1.5
50-90cm	0.0	1.0
>90cm	0.0	0.5

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	LF	1	HT	0	80	80	20	Conifer							ALDER, ELDERBERRY
								Hardwood	2	1					
12	LF	2	HS	35	70	80	20	Conifer							
								Hardwood							
12	LF	3	HS	30	85	80	20	Conifer							ELDERBERRY
								Hardwood	1						
12	RT	1	HT	0	25	85	15	Conifer							SALMONBERRY
								Hardwood	1						Y
12	RT	2	HT	0	0	0	95	Conifer							PASTURE
								Hardwood							
12	RT	3	HT	0	0	0	100	Conifer							PASTURE
								Hardwood							
25	RT	3	HT	0	5	0	85	Conifer							
								Hardwood							
25	LF	1	HT	0	90	25	60	Conifer							MYRTLE, ELDERBERRY
								Hardwood	2						
25	LF	3	HS	40	85	15	40	Conifer							MYRTLE, ALDER
								Hardwood	4	1					
25	RT	2	HT	5	45	25	65	Conifer							CHOK CHERRY, FI MYRTLE, BLM
								Hardwood	2		3				
25	LF	2	HS	60	90	10	60	Conifer							
								Hardwood	8			2			
25	RT	1	HS	30	85	35	35	Conifer							ELDERBERRY
								Hardwood	5				1		

Comment Summary

Oregon Plan Monitoring Sites 2003

MONITORING AREA: 3-MS SITE ID: 213 DANIELS CREEK TRIB PRE-TX (MS-2)

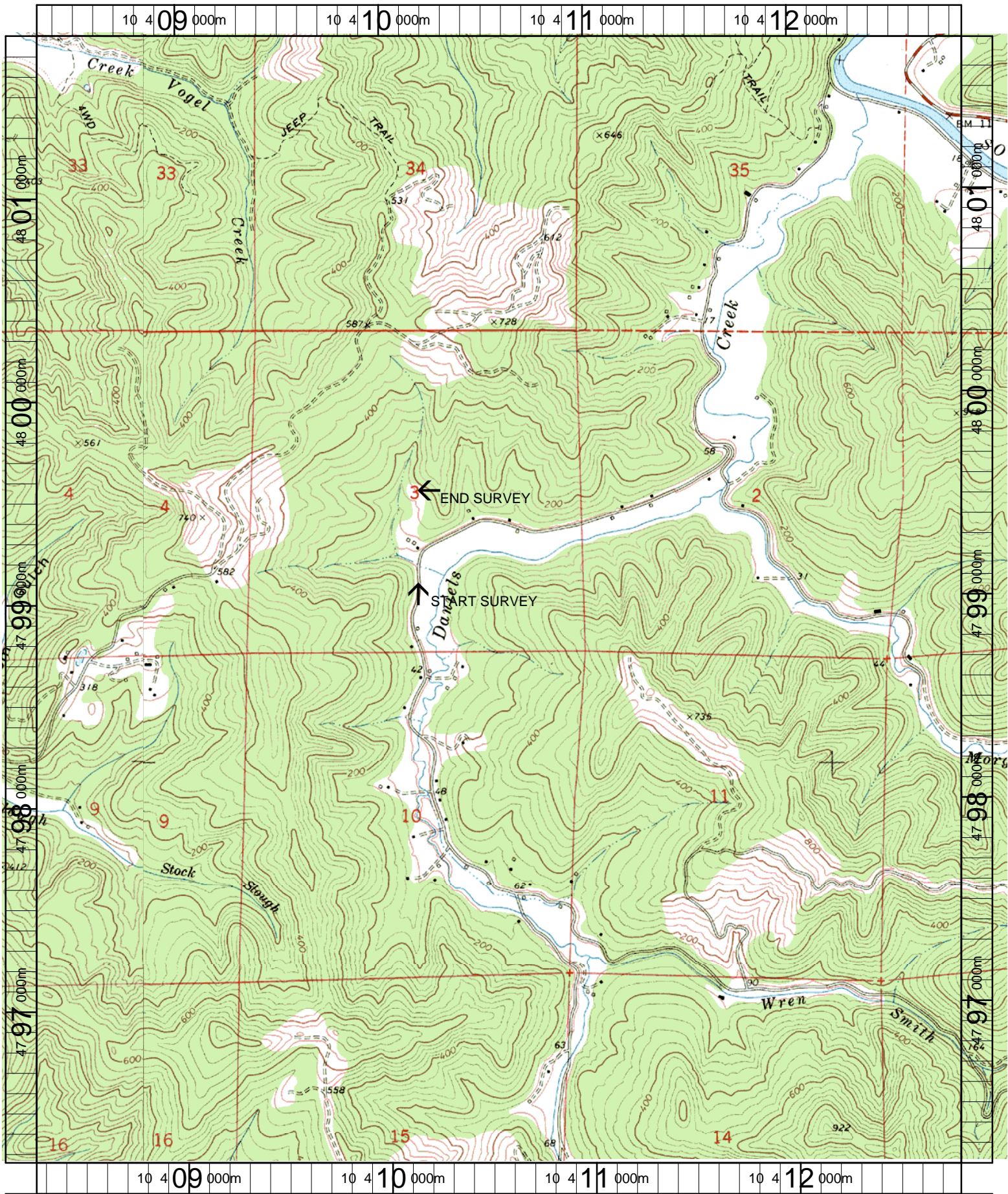
<u>UNIT#</u>	<u>TYPE</u>	<u>CHAN</u>	<u>DIST. (m)</u>	<u>COMMENTS</u>	<u>NOTE ESTIMATOR</u>	<u>NOTE NUMERATOR</u>
1	CC	00	15	CC	CULVERT= 1.0 X 1.0M	UNABLE TO GET EXACT SUB
2	GL	11	15		DRAINAGE DITCH ALONG	SET DWN IN STRM BED, CO
3	RI	01	19.8	TJ		FISH, ALONG RDSIDE (DRAI
4	GL	00	28.6		MOST OF STRM CVRD BY	HEAVY BRUSH OVER STREA
5	RI	00	34.4		HS, SHADE % NOT INCLU	
7	RI	00	57.6			CUTTHROAT & OTHER SALM
8	RP	00	67.9			COHO FRY
9	RI	00	92.9			COHO FRY
10	RI	00	117.9			FROGS XL, STREAM VERY U
11	RI	00	140.9	WL		OLD FENCE IN STREAM, FO
12	RI	00	162.2		RIP#1	SALMONIDS
13	RI	01	176.5	TJ, SS/		CAN'T SURV TRIB, OWNER S
14	RI	11	176.5		TJ TEMP=13 DEG C	THIS IS THE TRIB FROM MAI
17	RI	00	207.8	SC		
18	DU	02	207.8			DRY SECONDARY CHANNEL
20	PP	00	219.1			TURBID H2O, SALMONIDS
21	SR	00	219.7		H=0.4M	H=.4
22	CR	00	223.4			DEEP CLAY BOWLS & STEPS
24	RI	00	263.5	WL		DEER, SALMONIDS
25	RI	00	286.5	WL	RIP#2	DEER, SALMONIDS
26	SP	01	289.1	SC		CUTTHROAT(6") & COHO

Comment Summary

Oregon Plan Monitoring Sites 2003

MONITORING AREA: 3-MS SITE ID: 213 DANIELS CREEK TRIB PRE-TX (MS-2)

<u>UNIT#</u>	<u>TYPE</u>	<u>CHAN</u>	<u>DIST. (m)</u>	<u>COMMENTS</u>	<u>NOTE ESTIMATOR</u>	<u>NOTE NUMERATOR</u>
27	RI	02	289.1			SECONDARY CHANNEL
29	RI	01	292.9	WL		SALMONIDS, DEER
30	RB	00	317.9	WL		2 X 6'S IN STREAM, DEER TR
31	RB	01	337.2	WL		DEER, LOTS
33	RB	00	362.2	DJ, WL	DJ	DEER, RACCOON, SALMONI
34	RB	00	375.2	WL		SKUNK, COYOTE
35	RB	00	387.7	WL		COUGAR- FRESH TRACKS O
36	RB	00	401.2		RIP #3	SALMONIDS
37	RB	00	426.2	WL		COUGAR, DEER, BOBCAT, S
38	RB	01	431.2	WL		COUGAR
39	RI	02	431.2			NOT QUITE DRY
40	SL	00	431.6		H=.4M	H=.4
42	RB	01	452.1	WL, TJ	TRIB TEMP=12 DEG C @1	SALMONIDS, DEER
43	CB	11	452.1	WL		TRAIL, FROGS
44	SL	00	452.3		H=.4M	H=.4
45	RB	00	470.1	BC		DJ BC= VERY OLD SM BRID
46	CB	00	481.3	WL		"BOOMER" DENS 8+ TREE F
47	SB	00	482	WL	H=0.5	BOOMERS, SALMONDIS



Name: DANIELS CREEK
 Date: 12/17/2003
 Scale: 1 inch equals 2000 feet

Location: 10 410552 E 4799005 N
 Caption: DANIELS CREEK TRIB RESTORATION SITE - SOUTH COOS BASIN