



United States Department of the Interior

FISH AND WILDLIFE SERVICE Arcata Fish and Wildlife Office

1655 Heindon Road
Arcata, CA 95521
(707) 822-7201
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Interested Parties

Subject: Redwood Creek Rotary Screw Trap Summary for the week of June 9th

Enclosed please find a summary of the Arcata Fish and Wildlife Office (AFWO) rotary screw trap operations on lower Redwood Creek in Orick, California. The trap is located within the boundary of Redwood National and State Parks (RNSP). Trapping operations are conducted by the AFWO in conjunction with RNSP, and are operated in concert with rotary screw trap operations on upper Redwood Creek conducted by California Department of Fish and Game (CDFG).

The Fish and Wildlife Service rotary screw trap was installed March 10, 2003. Continuous operations have been interrupted by high flow events and minor trap repairs which have caused the trap to be fished less than 7 days a week. This pilot year study of the trap operations will provide valuable information regarding the operation of a rotary screw trap at the current site (approximately River Mile 4) and provide information on the adequacy of the site for estimating juvenile salmonid emigration out of Redwood Creek above Prairie Creek.

All data contained within this report are preliminary and subject to revision. Any questions regarding this data or trap operations should be directed to Bill Pinnix, Tom Shaw, or George Guillen at (707) 822-7201.

Sincerely,

Mike Long
Mike Long
Field Supervisor

Enclosure

2003 USFWS Rotary Trap Weekly Juvenile Salmonid Catch Summary for Redwood Creek @ Orick, CA (Rkm 6.4)

Arcata Fish and Wildlife Office, 1655 Heindon Rd., Arcata, CA 95521, (707) 822-7201

Preliminary, all data subject to revision.

Julian Week	Week Range	*Flows (cfs)		**Dissolved Oxygen (mg/L)		**Water Temp (F)		Days Sampled in Week	CHINOOK					STEELHEAD				COHO			
									YOY		Total	Y+	Total	YOY	Y+	Ad-Clip	Total	YOY	Y+	M-Clip	Total
		Min	Max	Min	Max	Min	Max		No Clip	Ad-Clip											
10	Mar 05-Mar 11							1	0	0	0	0	0	2	4	0	6	0	0	0	0
11	Mar 12-Mar 18							2	3	0	3	0	3	3	1	0	4	0	0	0	0
12	Mar 19-Mar 25							5	5	0	5	0	5	13	6	0	19	4	0	0	4
13	Mar 26-Apr 01							1	2	0	2	0	2	16	4	0	20	10	1	0	11
14	Apr 02-Apr 08					39	46	2	1	0	1	0	1	11	2	0	13	4	0	0	4
15	Apr 09-Apr 15							4	10	0	10	0	10	10	2	0	12	34	2	0	36
16	Apr 16-Apr 22							4	8	0	8	0	8	7	0	0	7	7	0	0	7
17	Apr 23-Apr 29					48	50	2	6	0	6	0	6	2	2	0	4	4	0	0	4
18	Apr 30-May 06							7	20	0	20	4	24	0	5	0	5	13	1	0	14
19	May 07-May 13			9.74	10.05			7	28	0	28	0	28	1	12	0	13	8	2	0	10
20	May 14-May 20			10.79	10.79			6	27	0	27	3	30	2	19	0	21	10	0	0	10
21	May 21-May 27							5	20	0	20	2	22	0	15	0	15	2	4	0	6
22	May 28-Jun 03			10.3	10.3	59	59	2	2	0	2	0	2	0	1	0	1	0	0	0	0
23	Jun 04-Jun 10							2	0	0	0	0	0	0	0	0	0	0	0	0	0

Total	3/11/2003	6/5/2003							132	0	132	9	141	67	73	0	140	96	10	0	106
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Actual catch reported (not expanded for non-sample days).

*Flows reported by USGS, may be subject to revision **Water temperature recorded with Min-Max thermometer. Dissolved oxygen recorded in river at time of daily trap checks

YOY=Young of Year (less than 1 yr); Y+=greater than 1 yr; Ad-Clip=Adipose Fin Clipped; M-Clip= Maxillary Clip

Summarized on: 6/5/2003

2003 USFWS Juvenile Chinook Fork Length Summary for Redwood Creek @ Orick, CA (Rkm 6.4)

Arcata Fish and Wildlife Office, 1655 Heindon Rd., Arcata, CA 95521, (707) 822-7201

Preliminary, all data subject to revision.

Julian Week	Range	# (YOY)	Avg(YOY)	# (Y+)	Avg(Y+)	#(All)	Avg(All)	Min(All)	Max(All)
10	Mar 05-Mar 11	0	-	0	-	0	-		
11	Mar 12-Mar 18	3	39	0	-	3	39	38	40
12	Mar 19-Mar 25	5	41.8	0	-	5	41.8	39	52
13	Mar 26-Apr 01	2	40	0	-	2	40	40	40
14	Apr 02-Apr 08	1	45	0	-	1	45	45	45
15	Apr 09-Apr 15	10	40	0	-	10	40	37	52
16	Apr 16-Apr 22	8	41.12	0	-	8	41.12	37	44
17	Apr 23-Apr 29	6	41.83	0	-	6	41.83	41	44
18	Apr 30-May 06	20	43.1	4	140.75	24	59.38	38	174
19	May 07-May 13	28	48.07	0	-	28	48.07	36	62
20	May 14-May 20	27	50.5	3	81.67	30	54.24	34	100
21	May 21-May 27	20	52.8	2	126.5	22	59.5	40	132
22	May 28-Jun 03	2	53.5	0	-	2	53.5	39	68
23	Jun 04-Jun 10	0	-	0	-	0	-		

#=Sample size; Avg= Average fork length in millimeters; Min= Minimum fork length in millimeters; Max= Maximum fork length in millimeters

YOY=Young of Year (less than 1 yr); Y+=greater than 1 yr; All=All Chinook

Thursday, June 05, 2003

2003 USFWS Juvenile Coho Fork Length Summary for Redwood Creek @ Orick, CA (RKm 6.4)

Arcata Fish and Wildlife Office, 1655 Heindon Rd., Arcata, CA 95521, (707) 822-7201

Preliminary, all data subject to revision.

Julian Week	Range	# (YOY)	Avg(YOY)	# (Y+)	Avg(Y+)	#(All)	Avg(All)	Min(All)	Max(All)
10	Mar 05-Mar 11	0	-	0	-	0	-		
11	Mar 12-Mar 18	0	-	0	-	0	-		
12	Mar 19-Mar 25	4	38.25	0	-	4	38.25	38	39
13	Mar 26-Apr 01	10	37	1	117	11	44.27	35	117
14	Apr 02-Apr 08	4	37.5	0	-	4	37.5	34	39
15	Apr 09-Apr 15	34	36.47	2	135	36	41.94	33	165
16	Apr 16-Apr 22	7	45.43	0	-	7	45.43	34	90
17	Apr 23-Apr 29	4	53.25	0	-	4	53.25	38	92
18	Apr 30-May 06	13	38.46	1	94	14	42.43	36	94
19	May 07-May 13	8	45.38	2	112	10	58.7	36	114
20	May 14-May 20	10	45.22	0	-	10	45.22	37	54
21	May 21-May 27	2	49.5	4	121	6	97.17	43	183
22	May 28-Jun 03	0	-	0	-	0	-		
23	Jun 04-Jun 10	0	-	0	-	0	-		

#=Sample size; Avg= Average fork length in millimeters; Min= Minimum fork length in millimeters; Max= Maximum fork length in millimeters

YOY=Young of Year (less than 1 yr); Y+=greater than 1 yr; All=All Coho

Thursday, June 05, 2003

2003 USFWS Juvenile Steelhead Fork Length Summary for Redwood Creek @ Orick, CA (RKm 6.4)

Arcata Fish and Wildlife Office, 1655 Heindon Rd., Arcata, CA 95521, (707) 822-7201

Preliminary, all data subject to revision.

Julian Week	Range	#(All)	Avg(All)	Min(All)	Max(All)
10	Mar 05-Mar 11	6	139.17	79	185
11	Mar 12-Mar 18	4	114.25	84	194
12	Mar 19-Mar 25	19	80.22	49	152
13	Mar 26-Apr 01	20	81.95	63	105
14	Apr 02-Apr 08	13	84.85	64	120
15	Apr 09-Apr 15	12	85.5	66	106
16	Apr 16-Apr 22	7	80.71	76	88
17	Apr 23-Apr 29	4	93	70	105
18	Apr 30-May 06	5	93	75	122
19	May 07-May 13	13	85	37	110
20	May 14-May 20	21	89.07	41	157
21	May 21-May 27	15	88.87	69	122
22	May 28-Jun 03	1	83	83	83
23	Jun 04-Jun 10	0	-		

#=Sample size; Avg= Average fork length in millimeters; Min= Minimum fork length in millimeters; Max= Maximum fork length in millimeters

All=All Steelhead (Age classes to be determined after scale analysis)

Thursday, June 05, 2003

2003 USFWS Rotary Trap Mortality Summary for Redwood Creek @ Orick, CA

Arcata Fish and Wildlife Office, 1655 Heindon Rd., Arcata, CA 95521, (707) 822-7201

Preliminary, all data subject to revision.

<i>Sample Date</i>	<i>Common Name</i>	<i>Morts</i>
4/1/2003	Prickly Sculpin	1
4/2/2003	Coho Salmon	1
4/23/2003	Threespine Stickleback	1
5/7/2003	Juvenile Trout	1

2003 USFWS Rotary Trap Daily Catch Summary for Redwood Creek @ Orick, CA (Rkm 6.4)

Arcata Fish and Wildlife Office, 1655 Heindon Rd., Arcata, CA 95521, (707) 822-7201

Preliminary, all data subject to revision.

Sample Date	Chinook Salmon	Coho Salmon	Steelhead	Juvenile Trout*	Pacific Lamprey	Prickly Sculpin	Coastrange Sculpin	Marbled Sculpin	Sucker	Threespine Stickleback	Total Catch
3/11/2003			6								6
3/12/2003	1		1						1		3
3/13/2003	2		3							1	6
3/19/2003			5			2					7
3/20/2003		3	2	1	1				1		8
3/21/2003			6								6
3/24/2003	5		3	4	1						13
3/25/2003		1	3	1	1			1			7
4/1/2003	2	11	20	1	2	3	1	1		2	43
4/2/2003	1	4	13		1	2					21
4/9/2003	6	25	3	8						4	46
4/10/2003	2	4	1	3		2				2	14
4/11/2003	1	7	6	3		2				1	20
4/15/2003	1		2	1		1				1	6
4/16/2003	2	3	2	1		2			2	5	17
4/17/2003	1	2	1			1				3	8
4/22/2003	5	2	4	1	1			1		2	16
4/23/2003		2	4	1	1	2				3	13
4/29/2003	6	2		16						2	26
4/30/2003	4	5	1	20						1	31
5/1/2003	4	3	1	14		2				1	25
5/2/2003	3	2	1	6	2	1				1	16

*Cutthroat or steelhead trout spp. too small (<50mm) to identify in the field

Thursday, June 05, 2003

2003 USFWS Rotary Trap Daily Catch Summary for Redwood Creek @ Orick, CA (Rkm 6.4)

Arcata Fish and Wildlife Office, 1655 Heindon Rd., Arcata, CA 95521, (707) 822-7201

Preliminary, all data subject to revision.

Sample Date	Chinook Salmon	Coho Salmon	Steelhead	Juvenile Trout*	Pacific Lamprey	Prickly Sculpin	Coastrange Sculpin	Marbled Sculpin	Sucker	Threespine Stickleback	Total Catch
5/3/2003	3			23						4	30
5/4/2003	1			25	1					12	39
5/5/2003	6	3	2	17						22	50
5/6/2003	3	1		26						16	46
5/7/2003	2	2	1	8						21	34
5/8/2003	3	1		9						4	17
5/9/2003	5		2	6						3	16
5/10/2003	2	2	1	6		1				9	21
5/11/2003	7	1	2	9			1		1	7	28
5/12/2003	8	2	2	1		1			2	12	28
5/13/2003	1	2	5	2	1					6	17
5/15/2003	8	7	4	2		1			1	1	24
5/16/2003	5		3	2		2				8	20
5/17/2003	5	1	5		2	3		1		4	21
5/18/2003	2		1	5	1			1		3	13
5/19/2003	5	1	2	16	3				1	1	29
5/20/2003	5	1	6	11	1				1	1	26
5/21/2003	13	3	5	7		1			1		30
5/22/2003	6	1	5	4	1						17
5/23/2003	2	2	5	1	1	2				1	14
5/25/2003	1			5	2						8
5/27/2003				5	2						7

*Cutthroat or steelhead trout spp. too small (<50mm) to identify in the field

Thursday, June 05, 2003

2003 USFWS Rotary Trap Daily Catch Summary for Redwood Creek @ Orick, CA (Rkm 6.4)

Arcata Fish and Wildlife Office, 1655 Heindon Rd., Arcata, CA 95521, (707) 822-7201

Preliminary, all data subject to revision.

Sample Date	Chinook Salmon	Coho Salmon	Steelhead	Juvenile Trout*	Pacific Lamprey	Prickly Sculpin	Coastrange Sculpin	Marbled Sculpin	Sucker	Threespine Stickleback	Total Catch
5/30/2003	1		1	1	1						4
6/3/2003	1			17							18
6/4/2003				21	2						23
6/5/2003				1		2		2		1	6

*Cutthroat or steelhead trout spp. too small (<50mm) to identify in the field