



**Willow Creek Downstream Migrant Trap Site
2007 In-Season Trapping Update –June 20, 2007**

Synopsis: The 2007 Downstream Migrant trapping season at the Willow Creek Trap Site (river kilometer 34) is being conducted jointly by the USFWS Arcata Fish and Wildlife Office (AFWO) and the Yurok Tribal Fisheries Program (YTFFP) on the mainstem Trinity River near Willow Creek, California. The season began March 5, 2007 with the installation of one trap. A second trap was installed March 15, 2007, and a third trap was installed April 4th, 2007.

This summary includes data from March 6th, 2007 through June 8th, 2007 and is presented as raw catch. No expansions have been calculated at this time. Data entry is not complete for Julian Weeks 21 through 23, May 21st to June 10th. Heavy debris load from the increased dam releases created problems for the rotary screw traps during Julian Weeks (JW) 18–20, and resulted in less than 21 trap days per week (7 days per week x 3 traps= 21 trap days per week). See attached catch summary for details of this narrative.

Raw daily catches of Chinook salmon (*Oncorhynchus tshawytscha*) have been captured each day sampling has occurred and most have been young-of-the-year (YOY). Weekly mean Fulton's K values of YOY Chinook salmon are slightly higher than 1.0 with a possible increase in condition from JW 15-22 compared to JW 10-14. Chinook salmon catches of natural fish peaked JW 19 and tapered off until the arrival of hatchery Chinook salmon in JW 23.

Raw daily catches of steelhead (*Oncorhynchus mykiss*) smolts (age 1+) peaked coincident with the increased flow in JW 17 and have tapered off with a few smaller peaks in catch. No age 2 steelhead occur on the catch summary because steelhead scales have not been aged this year; once aging is complete some age1 steelhead will be moved to the age 2 column. Steelhead smolts captured JW 10-19 had weekly mean Fulton's K values slightly higher than 1.0; values dropped below 1.0 in JW 20-23 possibly indicating that the smolting process is occurring. Steelhead YOY catches showed a small pulse in JW 13-15 and appear to be increasing in the past few weeks. Normal peaks in YOY steelhead catch occur in mid-June to early July.

Raw daily catches of coho salmon (*Oncorhynchus kisutch*) are low compared to the past 5 years, especially for natural smolts. Weekly mean Fulton's K value of natural coho salmon smolts were higher than 1.0 in JW 11-18, but have decreased below 1.0 in JW 19-23; possibly indicating that the smolting process is occurring. Coho salmon smolt catches, both natural and hatchery, in JW 17 increased coincident with the increased water releases from Lewiston Dam.

If you have any questions regarding this summary, don't hesitate to contact Bill Pinnix at (707) 822-7201.

USFWS RST Juvenile Salmonid Catch Summary for TRWC1 and TRWC2 and TRWCY

DayMin: 3/6/2007

DayMax: 6/8/2007

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

Preliminary, all data subject to revision.

JW /Year	Week Range	*Flows (cfs)		**Dissolved Oxygen (mg/L)		**Water Temp (C)		Trap Days Sampled	CHINOOK (<i>O. tshawytscha</i>)					STEELHEAD (<i>O. mykiss</i>)					COHO (<i>O. kisutch</i>)					
		Min	Max	Min	Max	Min	Max		YOY					YOY	1+	2+	Ad-Clip	Total	YOY	1+	M-Clip	Total		
									No Clip	Ad-Clip	Total	1+	1+/AD										Total	1+
10/2007	Mar 05-Mar 11			12.31	12.33	8.0	8.4	4	27	0	27	0	0	27	0	3	0	0	0	3	0	0	0	0
11/2007	Mar 12-Mar 18			11.85	12.81	8.7	10	10	128	0	128	1	0	129	0	11	0	0	0	11	23	2	1	26
12/2007	Mar 19-Mar 25			10.89	12.27	8.8	11	14	236	0	236	3	0	239	0	62	0	7	69	18	1	120	139	
13/2007	Mar 26-Apr 01			10.7	12.06	8.3	11	14	191	0	191	0	0	191	6	93	0	67	166	9	1	8	18	
14/2007	Apr 02-Apr 08			10.75	13.08	9.9	14	17	202	0	202	0	0	202	3	312	0	274	589	12	3	0	15	
15/2007	Apr 09-Apr 15			10.42	11.75	11	13	20	1,396	0	1,396	3	0	1,399	3	583	0	210	796	19	4	3	26	
16/2007	Apr 16-Apr 22			10.72	11.58	9.9	12	21	3,652	0	3,652	1	0	3,653	0	710	0	329	1,039	20	4	7	31	
17/2007	Apr 23-Apr 29			10.48	17.43	11	14	21	3,032	0	3,032	0	0	3,032	0	1,406	0	425	1,831	40	61	162	263	
18/2007	Apr 30-May 06			12.84	18.91	10	12	8	665	0	665	0	0	665	1	62	0	56	119	26	18	288	332	
19/2007	May 07-May 13			15.31	19.04	13	14	19	5,095	0	5,095	0	0	5,095	10	179	0	107	296	15	22	162	199	
20/2007	May 14-May 20					13	13	19	4,634	0	4,634	0	0	4,634	9	157	0	79	245	8	11	140	159	
21/2007	May 21-May 27			14.33	14.33	14	14	14	3,486	0	3,486	1	0	3,487	11	396	0	127	534	22	55	600	677	
22/2007	May 28-Jun 03			5.48	10.59	16	18	15	2,446	0	2,446	0	0	2,446	6	114	0	24	144	25	18	189	232	
23/2007	Jun 04-Jun 10			8.95	9.65	15	16	12	3,575	13	3,588	0	0	3,588	34	112	0	23	169	22	14	130	166	
Totals								208	28,765	13	28,778	9	0	28,787	83	4,200	0	1,728	6,011	259	214	1,810	2,283	

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

Summarized on: 6/19/2007