

Willow Creek Downstream Migrant Trap Site
2009 In-Season Trapping Update –April 16, 2009

Synopsis: The 2009 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 12, 2009 with the installation of two traps. A third trap was installed March 14, 2009. See attached catch summary for details of this narrative.

This summary includes data from March 12th, 2009 through March 31st, 2009 and is presented as raw catch. No expansions have been calculated at this time. Data entry is not complete for Julian Weeks 13-15, April 1st to April 16th. Heavy debris load and high flows have occasionally resulted in null sets, causing less than 21 trap days (3 traps x 7 days) in some weeks.

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), with more age 1+ natural Chinook salmon than in past years. Weekly mean Fulton's K values of YOY Chinook salmon began the season lower than 1.0 with an increase in condition evident over the 3 weeks summarized. Efficiency calibrations were conducted during this summary period with freeze-branded hatchery Chinook salmon on March 13, March 19, and March 26.

Raw daily catches of steelhead (*Oncorhynchus mykiss*) smolts (age 1+) have been steady since the beginning of trapping with hatchery steelhead showing up in Julian Week 13. Steelhead smolts captured JW 11-13 had weekly mean Fulton's K values slightly higher than 1.0. Steelhead YOY numbers are present in the catch, but have yet to show signs of a peak.

Raw daily catches of coho salmon (*Oncorhynchus kisutch*) are low compared to the past 6 years, especially for natural smolts. Weekly mean Fulton's K value of natural coho salmon smolts have been higher than 1.0. Hatchery coho smolt catch occurred in the catch during Julian Week 12.

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: 3/12/2009

DayMax: 3/31/2009

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					No Clip	Ad-Clip	Total	1+	1+/AD	Total	YOY	1+	M-Clip	Total
11/2009	Mar 12-Mar 18							12	129	0	129	98	0	227	0	251	0	0	251	0	10	0	10
12/2009	Mar 19-Mar 25			12.23	12.68	7.32	8.51	13	265	0	265	21	1	287	23	184	0	0	207	1	31	48	80
13/2009	Mar 26-Apr 01			11.61	12.2	8.55	10.3	15	408	0	408	16	1	425	0	195	0	25	220	3	11	7	21
Totals								40	802	0	802	135	2	939	23	630	0	25	678	4	52	55	111

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: 4/16/2009