



Trinity River mainstem redd survey update

12/21/2011

The [Arcata Fish and Wildlife Office](#) along with the [California Department of Fish and Game](#), [Yurok Tribal Fisheries Program](#), [Hoopa Valley Tribal Fisheries Department](#), and [Shasta-Trinity National Forest](#) survey the mainstem Trinity River to recover salmonid carcasses and count and map Chinook salmon (*Oncorhynchus tshawytscha*) redds. The distribution of Chinook salmon redds is expected to change in response to rehabilitation efforts of the [Trinity River Restoration Program](#), and the relative run size of natural vs. [Trinity River Hatchery](#) origin fish. Redd and carcass surveys are conducted weekly on the River between [Lewiston Dam](#) and the North Fork Trinity River (Reaches 1 through 7), and are conducted every other week on the Reaches downstream of the North Fork Trinity River ([link to map](#)).

This update provides preliminary data on 2011 redd counts encountered and entered into our database as of 12/20/2011 (Table 1). Figure 1 compares preliminary 2011 cumulative redd counts for Reaches 1-10 with the previous 9 years (2002-2010). Redds constructed by Chinook and coho salmon are not differentiated. Numbers are later adjusted for Chinook salmon of hatchery and natural origin using data provided by California Department of Fish and Game.

Table 1. Preliminary count of redds by logistic reach for the fall 2011 mainstem Trinity River redd survey. “NS” = not surveyed. Reach 11 not surveyed due to extreme whitewater (Burnt Ranch Gorge). These data are preliminary and subject to revision.

Week start	Reach														Total
	01	02	03	04	05	06	07	08	09	10	11	12	13	14	
9/12	8	0	0	3	8	0	0	0	0	0					19
9/19	23	27	39	33	38	1	0								161
9/26	69	34	54	53	96	8	10	2	3	2					331
10/3	167	36	69	95	60	27	28	4	5	14		NS	NS	NS	505
10/10	70	101	176	92	205	87	51	NS	120	84					986
10/17	158	64	56	28	151	105	113					14	0	0	689
10/24	140	16	19	16	54	112	77	NS	154	82					670
10/31	84	16	31	12	NS	32	40					68	24	2	309
11/7	162	40	27	NS	62	13	2	80	106	61					553
11/14	140	91	13	31	52	16	6					168	180	73	770
11/21	221	87	NS	NS	NS	4	10	NS	31	NS					353
11/28	253	68	35	8	18	2	3			47		229	152	NS	815
12/5	247	18	4	1	0	0	1	NS	12	2				43	328
12/12	88	10	0	0	0	NS	NS					34	46	50	228
12/19	6	1													7
Total	1,836	609	523	372	744	407	341	86	431	292		513	402	168	6,724



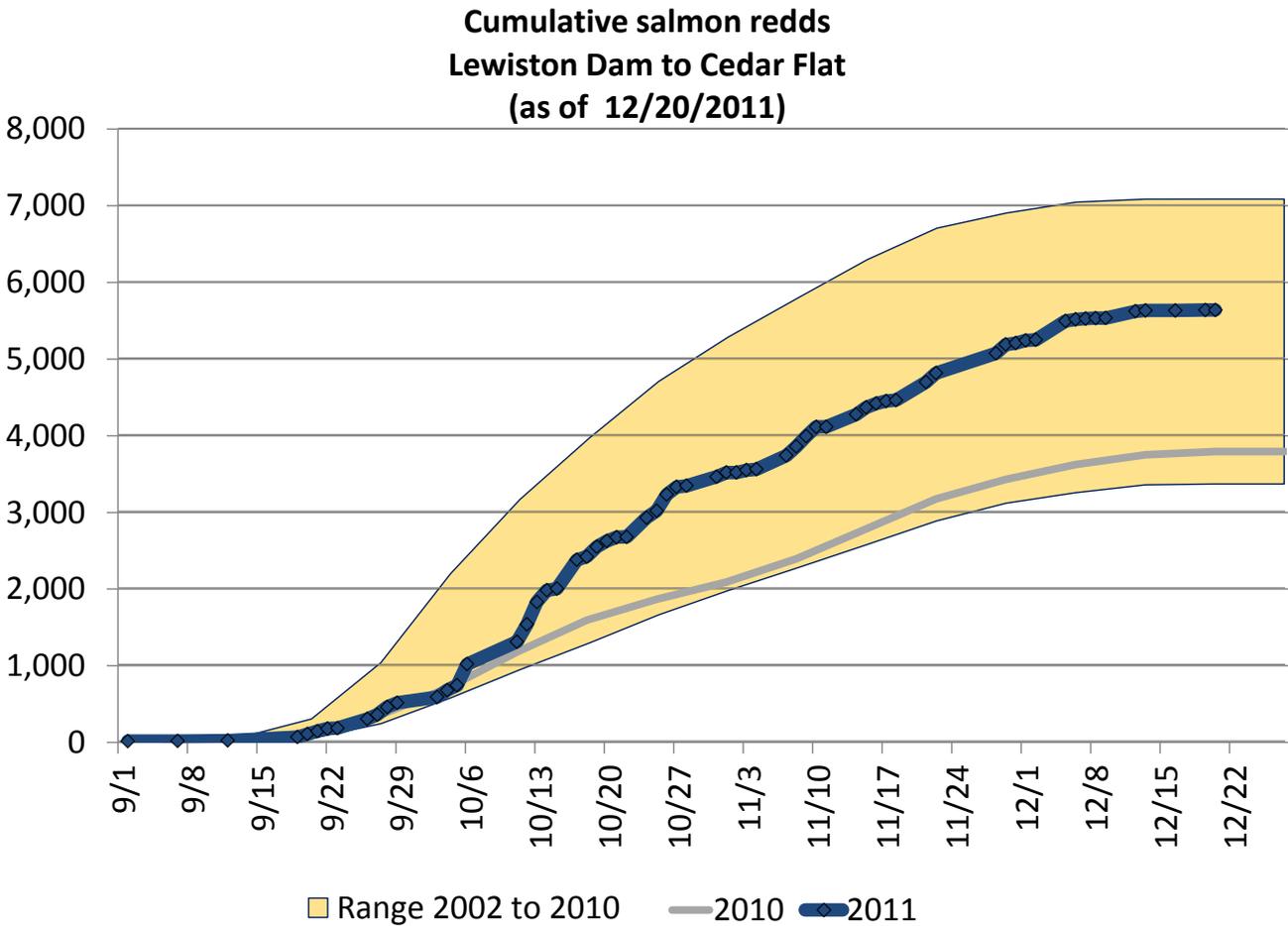


Figure 1. Comparison of fall 2011 cumulative Trinity River mainstem redd counts (Chinook and coho salmon) from Lewiston Dam to Cedar Flat as of 12/20/2011 to counts in 2010 and the range of years 2002-2010.

A [Keyhole Markup Language](#) file has been created to view redd distribution data with Google Earth.

[Redds_up_to_2011_12_20.kml](#)

(last modified December 21, 2011)

If Google Earth fails to launch automatically, the file can be used by first saving it to your computer then launching the Google Earth application. Select the menu option **File, Open**, locate the downloaded file (Redds_up_to_2011_12_20.kml); and click the **Open** button.

Note: Background imagery in Google Earth is sometimes not projected with perfect accuracy. Redd locations may appear to be mapped on dry ground in those cases when viewed with Google Earth, but they are indeed in the water! Likewise, the river has changed since the most recently available Google Earth imagery.

For more information regarding mainstem Trinity River redd surveys, please contact Charlie Chamberlain at (707) 822-7201 or charles_chamberlain@fws.gov