



Trinity River mainstem redd survey update 12/19/2013

The [Arcata Fish and Wildlife Office](#) along with the [California Department of Fish and Wildlife](#), [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 spawning 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. Spawning surveys are attempted weekly between [Lewiston Dam](#) and the North Fork Trinity River (reaches 1 through 7), and every other week on the survey reaches downstream of the North Fork Trinity (Figure 1, Table 1).

This update provides preliminary data on 2013 redd observations encountered and entered into our database as of 12/19/2013 (Table 1). Figure 2 compares preliminary 2013 cumulative redd counts for Reaches 1-10 with the previous 10 years (2002-2012). Redds constructed by Chinook and Coho Salmon are not differentiated. Numbers are later adjusted for Chinook Salmon of hatchery and natural origin using carcass data.

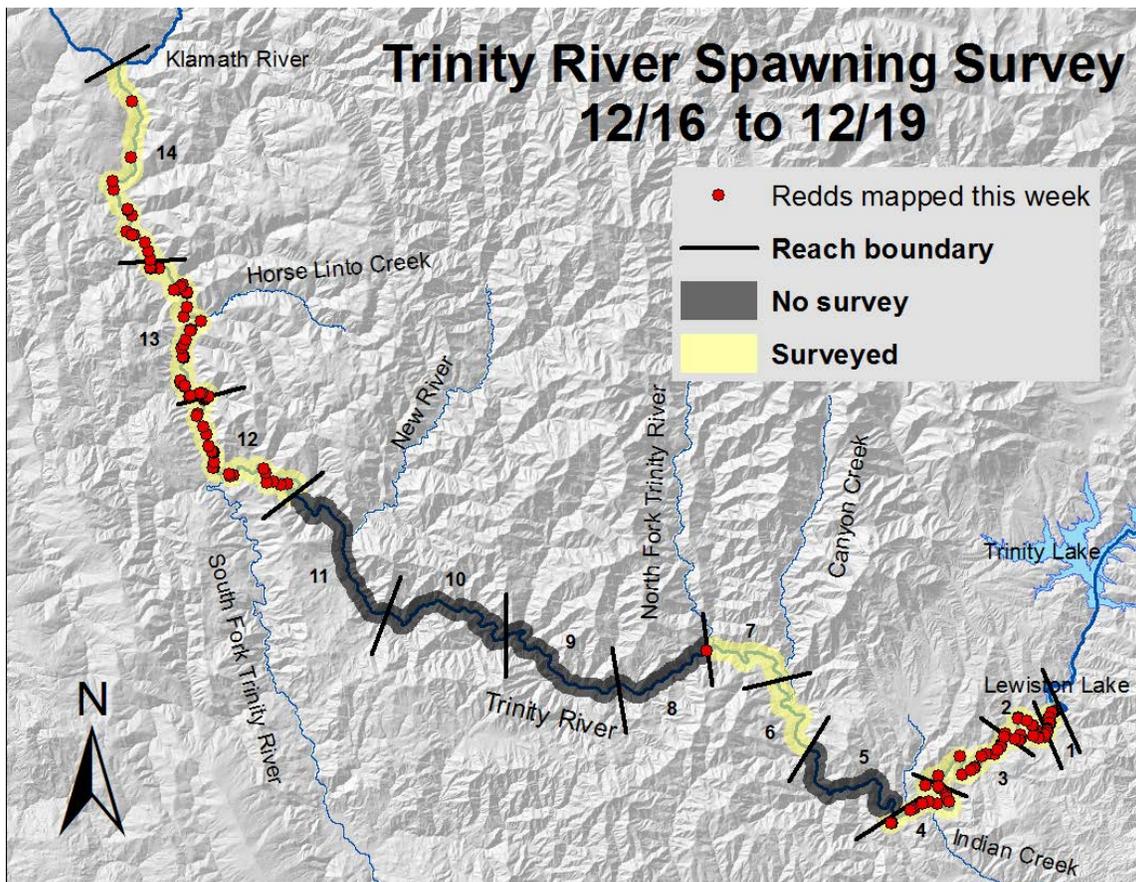


Figure 1. Mainstem Trinity River survey area of this update and observed activity.





Table 1. Preliminary count of redds by logistic reach for the fall 2013 mainstem Trinity River redd survey. Reach 8 and reach 11 not surveyed due to whitewater (Pigeon Point Run and Burnt Ranch Gorge).

Week start	Reach														Total	
	01	02	03	04	05	06	07	08	09	10	11	12	13	14		
09/02	1															1
09/09	0	0	0	0	1	0	0									1
09/16	2	0	16	7	10	0	0		0	0						35
09/23	31	39	67	24	42	10	12									225
09/30	44	50	46	36	64	52	32		NS	NS						324
10/07	34	27	10	8	40	46	43					NS	NS	NS		208
10/14	20	11	7	20	NS	101	74		121	110						464
10/21	27	7	7	6	28	51	71					20	8	1		226
10/28	103	20	10	21	17	50	35		189	92						537
11/04	65	19	14	10	9	11	4					77	75	19		303
11/11	76	41	2	11	NS	15	29		52	14						240
11/18	143	26*	27	20	3*	15	8					114	94	40		490
11/25	164	160	NS	NS	NS	5	5		31	17						382
12/02	102	43	29	NS	20	7	5					68	94	43		411
12/09	33	42	38	22	15	2	0		3	0						155
12/16	25	35	16	14	NS	0	1					79	99	22		291
Total	870	520	289	199	249	365	319		396	233		358	370	125		4,293

These data are preliminary and subject to revision.

“NS” = no survey

* = partial count due to technical difficulties.

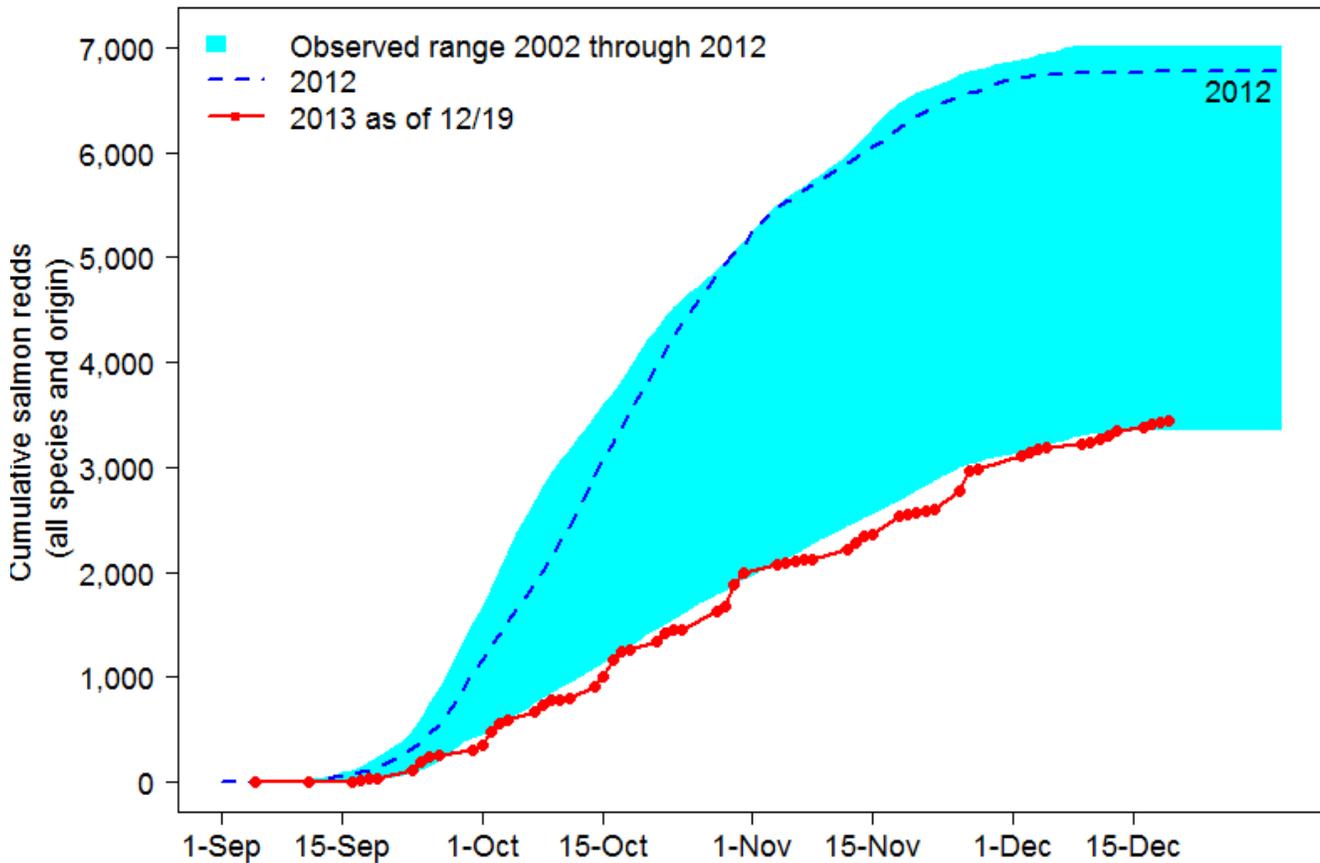


Figure 2. Comparison of fall 2013 cumulative Trinity River mainstem redd counts reaches 1 to 10 as of 12/19/2013 to counts in 2012 and the range of years 2002-2012 (reach 8 excluded).

A Keyhole Markup Language file has been created to view redd distribution data with Google Earth.

[Redds 2013 through 12_19.kml](#)
(last modified December 20, 2013)

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_2013_through_12_19.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