

Sacramento River Temperature Task Group (SRTTG) Call
Thursday, October 8, 2015 | 1:00 p.m. – 1:30 p.m.

MEETING SUMMARY

Participants:

- Eric Danner, NMFS
- Ken Emanuel, SWRCB
- Scott Ligare, SWRCB
- Seth Naman, NMFS
- Joe Pisciotto, CDFW
- Rich Satkowski, SWRCB
- Jim Smith, FWS
- Stacey Smith, USBR
- Paul Zedonis, USBR
- Thuy Washburn, USBR (Facilitator)
- There may have been two other participants on this call

Note-taking:

- Gia Brazil, Kearns & West

Action Items:

- Reclamation will notify SRTTG before switching to power generation at Trinity.

Fisheries Update

CDFW just released a new juvenile fish passage estimate at Red Bluff on October 6 or 7. The estimate of passage is lower this year than last; however it is too early to tell whether the lower numbers are related to the temperature control operations this year. There are a few reasons for the lower estimate of passage. Fecundity is ~10% less this year (counted from brood stock). Also, the population of spawners was ~3,000 in 2014 and is 2,250 in 2015 (~25% less). Passage estimates are ~31% less than last year, but could be explained by fecundity levels and spawning population. We are in the midst of the passage: USFWS expects that ~60-65% of fish have passed Red Bluff by this point. At this time last year there was a dramatic drop in juveniles moving down stream in early October and USFWS has not seen a similar drop so far this year. The hope is that the temperature modeling and plan to go to 57°F this year (up from 56°F last year) will help avoid the temperature spike in September and October that resulted in more losses earlier in the season and better survival later in the season. So far this seems to be working, but it is still too early to evaluate the effect of this year's temperature operations.

There are no changes in the hatchery since last week's report. USFWS is not collecting any more fish and survival is fine. USFWS expects ~400,000 fish for release in February 2016.

Operations Update

Reclamation is still releasing 6,700 cfs. The Delta salinity is lowering, so it is headed in the right direction now.

2014 vs. 2015 Snapshot (see handout)

The profile is from September 29. Conditions are better than last year. The TCD configuration is still with two PRG gates open. There is still a fair amount of water that is over 70°F, which was gone

by this time last year. This may be due to the warm air temperatures this year.

Temperature Summary (see handout)

The Shasta TCD weighted average is ~56°F. KWK is also at ~56°F; this is the primary temperature Reclamation is tracking and aiming to maintain between 56-56.5°F. CCR has been running at ~57°F with a high of 57.7°F on October 5. SAC has been below 57°F, which is good for this location. Reclamation will continue to closely monitor the Shasta TCD and KWK temperatures at ~56°F to ensure CCR compliance point is met. Reclamation is currently running the coldest configuration of units with about 500 cfs running through the Spring Creek Tunnel. There are still two PRGs open and Reclamation will probably close them October 9 or 10. Reclamation is waiting for temperatures to increase a little more to take that action, mainly because the configuration is slightly different today (October 8) than it was on October 7 in order to get KWK to 56°F. Air temperatures will determine the timing of operations actions. Reclamation estimates that with KWK at 56°F, it will be 1-1.5°F higher when it reaches CCR.

At Trinity, Reclamation has not been able to meet October temperature objectives to date. However, it normally takes about five days to get down to the target in recent years since the drought. These higher temperatures may also be due to the above normal October air temperatures that are occurring this year. Reclamation has been fully bypassing since the beginning of October. It will continue this configuration until the North Fork is below 56°F and then cut back the bypass. Current temperatures are close at 56.8°F.

Action Item: Reclamation will notify SRTTG prior to switching to power generation at Trinity.

Redding Air Temperature – Actual vs. Forecasted (see handout)

This handout shows the air temperature at Redding (shown in black) and the forecasted air temperature (shown in green), compared to 2003 air temperatures (similar to this year) and normal October mean temperatures. The average air temperature data are from NOAA and take the average of the normal low and normal high. Some data for normal mean are calculated using hourly readings. Using hourly data might actually bring us closer in actual versus forecasted than it now appears. The 2003 data comparison was selected because Reclamation wanted to use a dataset with a 10% L3MTO and 2003 is close to this parameter. Overall, we are on track. Reclamation will keep monitoring the TCD.

Next Meeting

The next meeting of the SRTTG is scheduled for October 15 at 1:00 p.m.

Sacramento River Temperature Task Group Meeting

October 8, 2015

1:00 pm

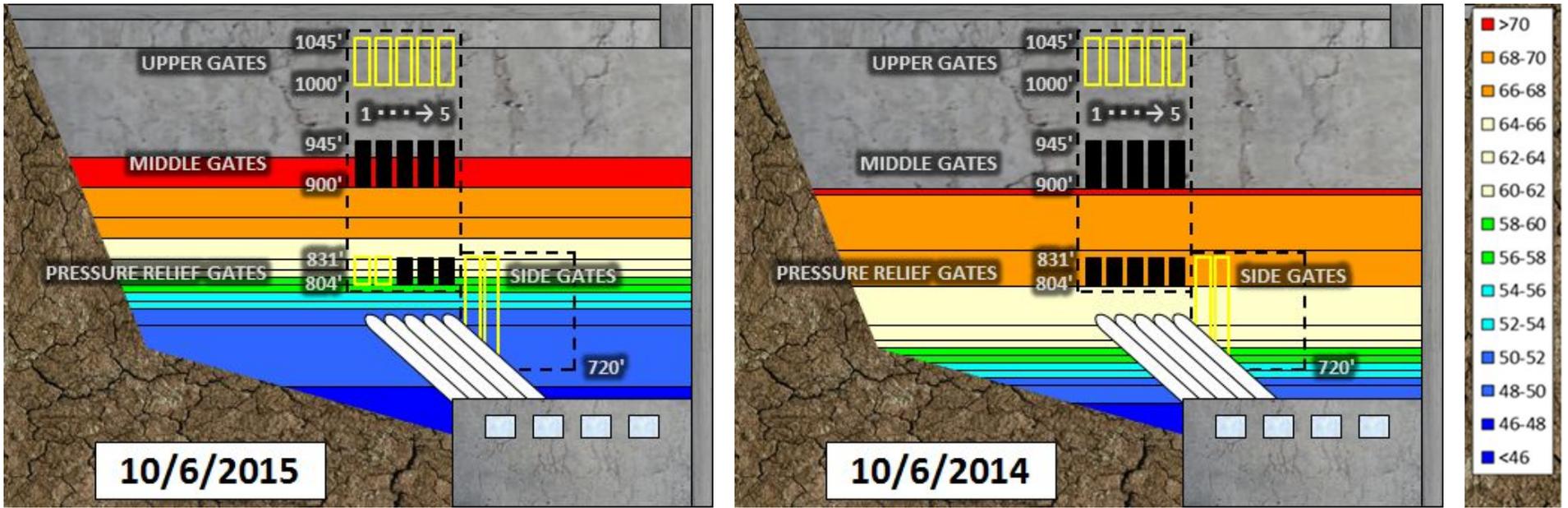
Conference Line: 877-718-6527

Pass code: 1954134

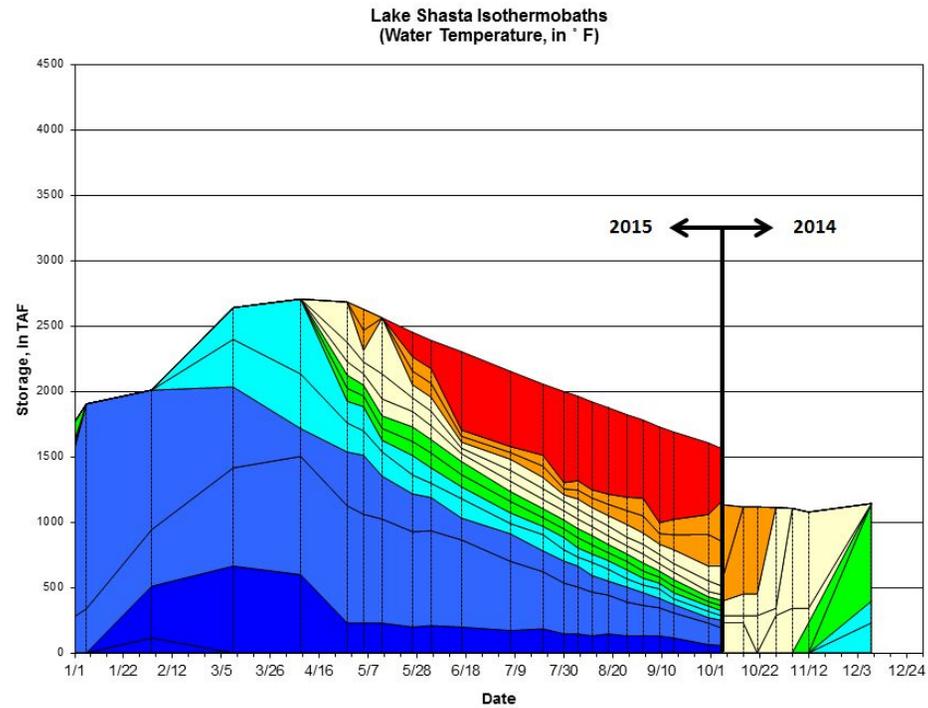
Agenda

1. Introductions
2. Fishery update
3. Operation update
 - a. 2015 vs. 2014 Snap shot ***
 - b. Temperature Summary ***
4. Next meeting

***handout



*NOTE: Yellow outline indicates open position, Solid Black indicates closed position.



Temperature and Release Summary for Shasta and Trinity - October 2015

(Updated twice a week November through April)

Day	Sacramento River Water Temperatures in Degrees F Collected from CDEC (California Data Exchange Center) except for TCD, SPP and Control Point															Mean Daily Release in CFS			Mean Daily Air Temp Degrees F			
	TCD Wt. Avg.	SHD minus TCD (Diff)	Shd	SPP Wt. Avg	Kwk	Bsf	Jlf	Bnd	Rdb	Lws	Control Point 4/1 Ccr	Igo	Sac	Nfh	Shasta Generation El 815	Spring Crk Powerplant Release	Keswick Total Release	RDD	BSF	RDB	LWS	
Sep	54.6		53.7	58.5	55.4	57.8	58.8	59.4	60.4	53.2	56.7	58.7	56.2	55.3	5,418	1,110	6,767	75.7	69.6	71.7	63.6	
Oct																						
1	55.7	(0.4)	55.3	58.0	55.6	57.3	57.8	58.0	58.4	51.9	56.5	58.0	56.1	56.3	5,701	756	6,542	67.5	63.0	64.3	56.9	
2	56.0	(0.4)	55.6	58.0	55.9	57.5	58.3	58.7	59.4	51.4	57.1	58.4	56.6	57.2	5,680	669	6,544	73.5	68.5	70.8	60.4	
3	56.3	(0.3)	56.0	58.1	56.1	57.9	58.5	58.9	59.8	50.8	57.2	58.1	56.7	56.7	5,648	670	6,545	74.5	68.1	70.5	56.9	
4	55.9	0.0	55.9	58.1	56.2	57.9	58.7	59.0	59.8	51.4	57.5	58.5	56.9	56.2	5,222	593	6,543	81.0	75.9	77.1	62.2	
5	55.6	(0.3)	55.3	58.0	56.5	58.1	59.0	59.4	60.3	51.3	57.7	58.2	57.1	56.7	5,649	667	6,545	70.5	66.5	68.0	61.8	
6	55.9	(0.4)	55.5	57.9	56.0	58.5	59.0	59.4	60.5	51.4	57.3	58.4	56.6	57.2	5,732	589	6,544	70.5	65.7	68.0	63.2	
7	56.2	(0.6)	55.6	58.0	56.1	57.7	58.4	58.9	60.0	51.3	56.9	58.1	56.5	56.8	6,419	458	6,544	71.0	65.5	68.8	61.5	
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31		0.0																				
Avg	55.9		55.6	58.0	56.1	57.8	58.5	58.9	59.7	51.4	57.2	58.2	56.6	56.7	5,722	629	6,544	72.6	67.6	69.6	60.4	
Tot cfs															40,051	4,402	45,807					
Tot af															79,441	8,731	90,858					

? = Average includes 1-9 estimated hourly readings
= Station out of service

! = No Average (10-17 hours missing)
ND = No hourly readings or incorrect

& = No Average (18 to 23 hours missing)
% = Data will be down loaded from site at later date by NCAO staff.

When available:
^ = Redding Air Temp Record High
* = Redding Air Temp Record Low

Control Point: Clear Creek 4/1/2015 to 4/17/2015 at 56.0 degrees; 4/18/2015 to 5/14/2015 at 58.0 degrees; 5/15/2015 to 6/4/2015 56.0; 6/5/2015 to present 58.0 degrees.

PRELIMINARY

Redding Air Temperatures

Day	Date	Min	Max	Avg	2003	Normal Mean
Thursday	1-Oct	59	76	67.5	71.0	70.0
Friday	2-Oct	55	92	73.5	73.0	69.5
Saturday	3-Oct	65	84	74.5	73.0	69.0
Sunday	4-Oct	69	93	81	73.0	68.5
Monday	5-Oct	55	86	70.5	72.5	68.5
Tuesday	6-Oct	56	85	70.5	74.0	68.0
Wednesday	7-Oct	57	85	71.0	74.5	67.5
Thursday	8-Oct	60	91	75.5	70.5	67.0
Friday	9-Oct	59	93	76.0	64.5	67.0
Saturday	10-Oct	58	85	71.5	65	66.0
Sunday	11-Oct	59	90	74.5	62.5	66.0
Monday	12-Oct	58	91	74.5	66.5	65.5
Tuesday	13-Oct	60	92	76.0	70.5	65.0
Wednesday	14-Oct	55	90	72.5	63.5	64.5
Thursday	15-Oct	54	87	70.5	60	64.5
Friday	16-Oct	54	84	69	65.5	63.5
Saturday	17-Oct	54	83	68.5	66	63.0
Sunday	18-Oct				64.5	63.0
Monday	19-Oct				65.5	62.5
Tuesday	20-Oct				67.5	62.0
Wednesday	21-Oct				69.0	61.5
Thursday	22-Oct				66.5	61.5
Friday	23-Oct				68.0	60.5
Saturday	24-Oct				77.0	60.0
Sunday	25-Oct				81.5	60.0
Monday	26-Oct				83.5	59.0
Tuesday	27-Oct				74.5	59.0
Wednesday	28-Oct				79.0	58.5
Thursday	29-Oct				65.0	58.5
Friday	30-Oct				53.0	57.5
Saturday	31-Oct				44.5	57.5