

Sacramento River Temperature Task Group (SRTTG) Call
Thursday, September 10, 2015 | 1:00 p.m. – 1:15 p.m.

MEETING SUMMARY

Participants:

- Ken Emanuel, SWRCB
- Scott Ligare, SWRCB
- Duane Linander, CDFW
- Joe Pisciotto, CDFW
- Diane Riddle, SWRCB
- Jason Roberts, CDFW
- Rich Satkowski, SWRCB
- Thuy Washburn, USBR (Facilitator)

Note-taking:

- Gia Brazil, Kearns & West

Action Items:

- Thuy Washburn to crosscheck the email list again; several people still are not receiving agendas/materials.

Key Discussion Topics with Summary of Outcomes and Agreements:

Fishery Update

CDFW will provide a winter-run escapement estimate in late October. Initial draft preQAQC data estimates 2,000 to 3,000 winter-run. They are conducting aerial redd flights for spring and fall runs. The estimated final emergence timing for winter-run fry is October 20.

Operation Update

Reclamation is still releasing about 7,200 cfs at Keswick. The Delta is beginning to salt up a little bit and outflow is right on the monthly average.

Temperature Summary (see handout)

Clear Creek (CCR) water temperatures are slowly increasing. This is due to the warm weather, not any Reclamation actions. TCD weighted average is 54.1° and KWK is 54.5° -54.8° F. Reclamation has been cooling off the TCD weighted average. Nevertheless, KWK temperatures have increased and CCR Tunnel temperature has been stable, so it is likely the high air temperatures that are causing these effects.

Reclamation does not anticipate a gate change yet; CCR is 56.9° F. Reclamation is making adjustments September 10-12 to cool off TCD and KWK.

Shasta Snap Shot 2015 vs 2014 (see handout)

Reclamation did a profile on September 9 and input it into the Shasta site view profile. The PRG gates are close to the lighter blue. Reclamation is hoping not to pull the side gates for at least 8-12 days and will try to stretch that out as long as possible. Last year at this time we were already at the

side gates in that area, so there is some cold water left for when the side gates are pulled. Reclamation included the Shasta Lake raw data in today's meeting materials package.

Currently, Reclamation is putting all water through the PRG gates and is prioritizing units to get the right temperature. The goal is to stay at 57°. The warm temperatures are expected through September 13, with an expected drop early the week of September 14.

Next Meeting

The next meeting of the SRTTG is scheduled for September 17th at 1:00 p.m.

Sacramento River Temperature Task Group Meeting

September 10, 2015

1:00 pm

Conference Line: 877-718-6527

Pass code: 1954134

Agenda

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

***handout

Shasta TCD Curtain

Temperature and Release Summary for Shasta and Trinity - September 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	Dgc	Shasta Generation El 815	Spring Crk Powerplant Release	Keswick Total Release	RDD	BSF	RDB	LWS
Aug	53.9		52.3	58.7	55.4	58.6	60.0	60.7	62.4	53.1	56.9	58.4	56.3	57.0	5,354	1,374	6,854	81.3	75.9	76.1	70.5
Sep																					
1	53.5	(1.2)	52.3	58.8	55.2	58.8	59.9	60.6	62.1	53.7	56.9	59.5	56.2	56.5	4,912	1,322	6,904	79.5	73.3	75.0	69.5
2	53.3	(1.0)	52.3	58.8	54.8	58.3	59.5	60.4	62.0	53.6	56.3	59.1	55.7	56.0	5,409	1,250	6,901	77.5	72.3	72.5	64.4
3	53.3	(1.1)	52.2	58.8	54.9	58.2	59.4	60.2	61.6	53.5	56.5	59.2	55.9	55.6	5,609	1,198	6,908	74.0	71.0	70.1	62.9
4	53.5	(1.3)	52.2	58.8	54.7	57.7	58.7	59.5	61.0	53.6	56.1	58.9	55.6	55.1	5,791	1,162	6,909	71.5	67.5	69.1	57.8
5	53.8	(1.2)	52.6	58.7	54.6	57.1	57.9	58.6	59.8	53.9	55.9	58.5	55.5	55.0	5,536	1,397	6,902	73.0	68.4	70.0	56.5
6	54.0	(1.1)	52.9	58.7	54.5	57.4	58.1	58.7	59.7	53.6	56.0	58.7	55.4	55.4	6,099	1,103	6,910	78.5	69.6	72.0	60.9
7	54.4	(1.4)	53.0	58.6	54.8	57.3	58.3	58.9	60.0	53.5	56.2	58.5	55.7	55.6	5,600	1,394	6,904	78.5	71.5	74.0	65.1
8	54.3	(1.2)	53.1	58.6	55.1	57.8	58.8	59.4	60.5	53.6	56.6	58.6	56.1	55.7	5,673	1,239	6,905	81.0	73.9	75.5	68.6
9	54.1	(1.0)	53.1	58.6	55.5	58.1	59.2	59.8	61.0	53.8	56.9	58.6	56.4	55.0	4,936	1,531	6,905	82.0	75.1	78.0	69.6
10		0.0																			
11		0.0																			
12		0.0																			
13		0.0																			
14		0.0																			
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30		0.0																			
		0.0																			
Avg	53.8		52.6	58.7	54.9	57.9	58.9	59.6	60.9	53.6	56.4	58.8	55.8	55.5	5,507	1,288	6,905	77.3	71.4	72.9	63.9
Tot cfs															49,565	11,596	62,148				
Tot af															98,312	23,001	123,271				

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

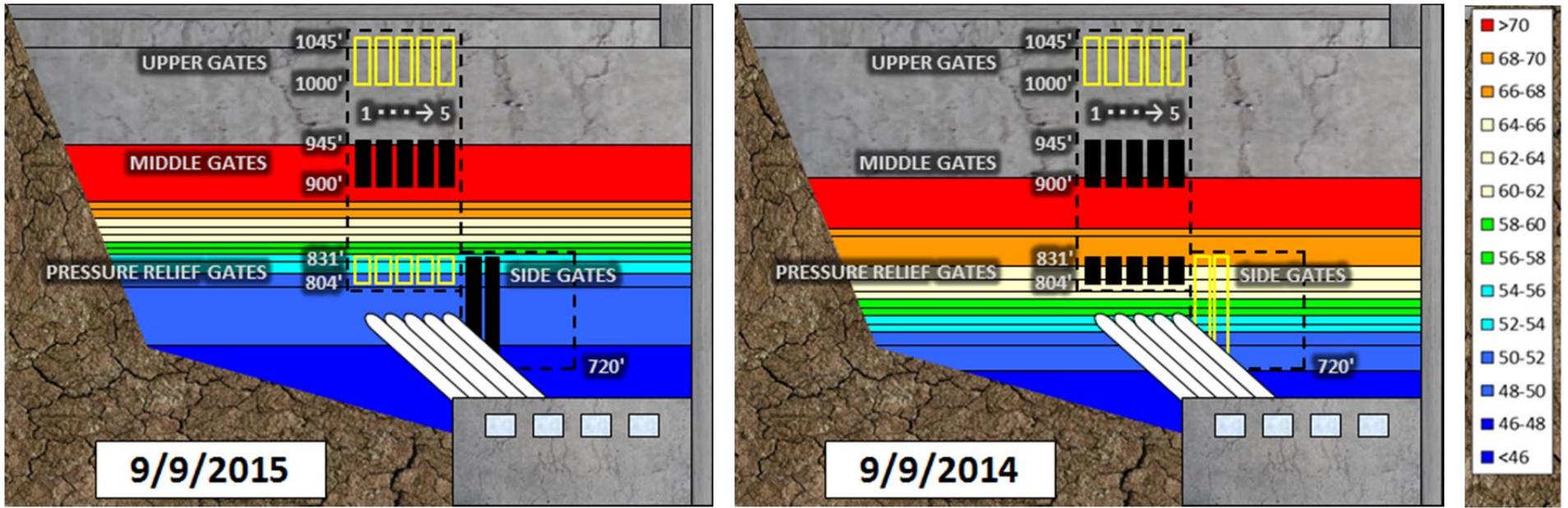
! = No Average (10-17 hours missing)
 ND = No hourly readings or incorrect

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

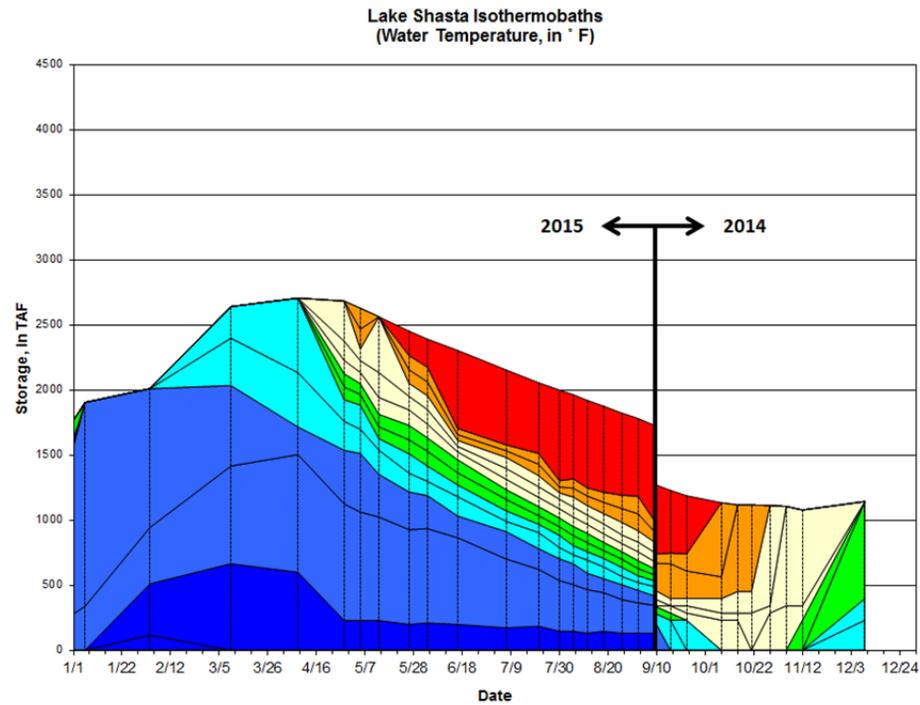
When available:
 ^ = Redding Air Temp Record High
 * = Redding Air Temp Record Low

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



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



Department of the Interior
Bureau of Reclamation
 NCAO

Shasta Lake Profile

Date: 9/9/2015 Time: 10:31 Observer: Gotham, Martin & Ward
 Precipitation Last 48 Hours: 0 Weather: clear & breezy
 Thermometer ID: YSI6600A Air Temperature (Degrees F): 86 Storet Code: SH21

Lake Surface Elevation: 940.76

All Elevations in M.S.L.
(Mean Sea Level)

Temperature
400 Feet Upstream
of Dam

Turbidity
400 Feet Upstream
of Dam

	Surface: <u>73.9</u>	Surface: _____
	Elevation 1050': _____	Elevation 1050': _____
	1025': _____	1025': _____
	1000': _____	1000': _____
	975': _____	975': _____
	950': _____	950': _____
	925': <u>73.7</u>	925': _____
	900': <u>73.3</u>	900': _____
	875': <u>67.5</u>	875': _____
	850': <u>61.5</u>	850': _____
	825': <u>53.6</u>	825': _____
	800': <u>49.8</u>	800': _____
Spillway Outlet (Elevation = 942'):	<u>0</u>	775': _____
Spillway Outlet (Elevation = 842'):	<u>0</u>	750': _____
Spillway Outlet (Elevation = 742'):	<u>0</u>	725': _____
Power (Elevation = 815'):	<u>2646</u>	700': _____
Tailbay Water Surface Elevation:	<u>581.23</u>	675': _____
Tailbay Water Temperature:	<u>52.8</u>	650': _____
Tailbay Water Turbidity:	<u>1.8</u>	625': _____

Remarks: Secchi = 15'. No turbidity data.