

Sacramento River Temperature Task Group Meeting

August 6, 2015

1:00 pm

Conference Line: 877-718-6527

Pass code: 1954134

Agenda

1. Introductions
2. Update on Shasta TCD Curtain
3. Fishery update
4. Operation update
 - a. Temperature Summary ***
 - b. TCD Config ***
 - c. Shasta profile ***
5. Next meeting

***handout

Temperature and Release Summary for Shasta and Trinity - August 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 EI 815	Spring Crk Powerplant Release	Keswick Total Release	RDD	BSF	RDB	LWS	
Jul																						
Aug																						
1	53.4	(1.8)	51.6	58.6	54.8	58.5	60.4	61.2	63.0	54.5	56.8	58.6	56.1	61.1	5,313	1,330	6,889	88.0	81.8	79.6	78.8	
2	53.8	(1.9)	51.9	58.6	54.8	58.3	59.8	60.8	63.1	53.7	56.0	57.8	55.5	60.1	5,472	1,330	6,908	84.5	79.7	77.8	74.4	
3	52.6	(1.2)	51.4	58.7	54.5	58.0	59.7	60.4	62.0	54.2	56.3	58.6	55.8	59.4	5,693	1,358	6,917	84.0	78.2	77.3	73.1	
4	53.4	(1.2)	52.2	58.7	54.8	58.0	59.3	60.1	61.9	53.4	56.0	57.8	55.8	59.6	5,187	1,565	6,915	78.5	71.5	71.0	70.6	
5	55.0	(1.5)	53.5	58.8	54.5	57.5	58.8	59.5	61.2	53.2	55.7	57.8	55.3	57.6	5,313	1,562	6,916	78.0	73.8	73.5	68.3	
6		0.0																				
7		0.0																				
8		0.0																				
9		0.0																				
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31																						
Avg	53.6		52.1	58.7	54.7	58.1	59.6	60.4	62.2	53.8	56.2	58.1	55.7	59.6	5,396	1,429	6,909	82.6	77.0	75.8	73.0	
Tot cfs															26,978	7,145	34,545					
Tot af															53,511	14,172	68,520					

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

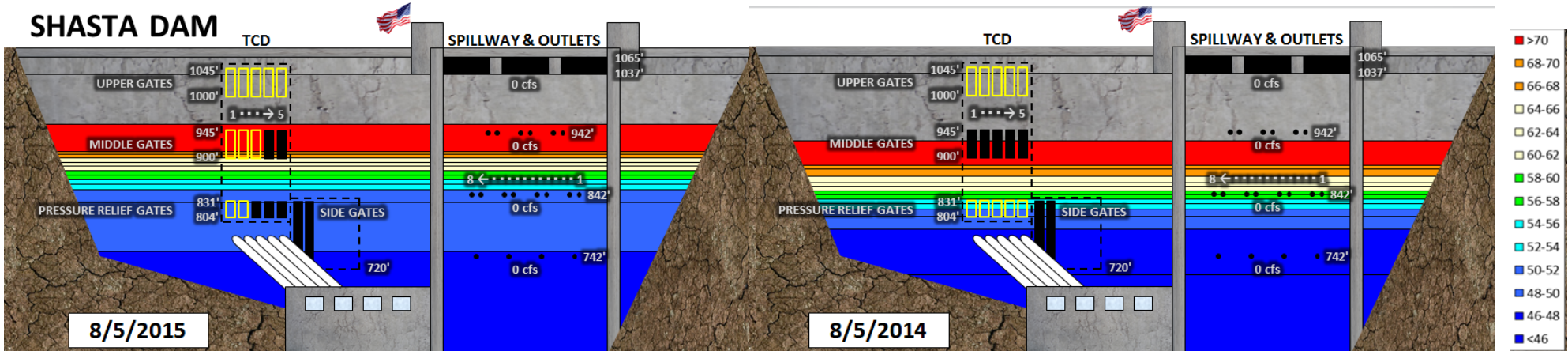
! = No Average (10-17 hours missing)
ND = No hourly readings or incorrect

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

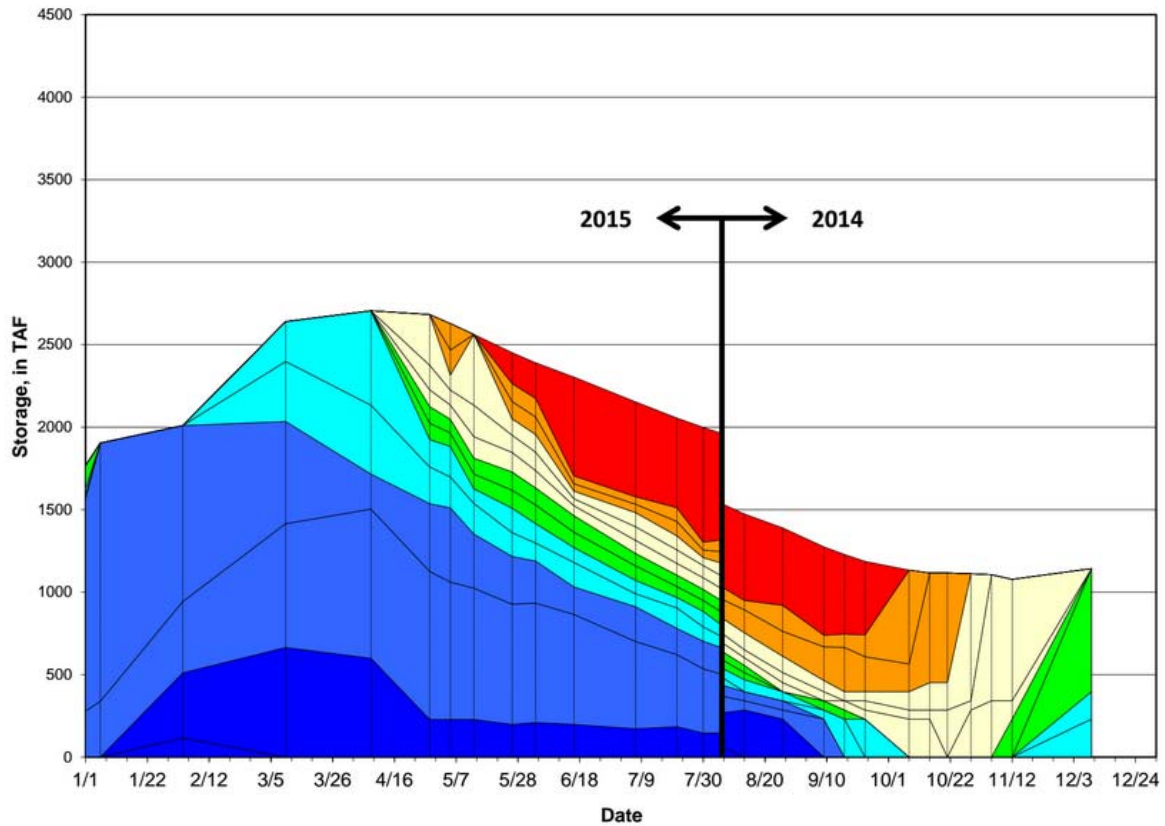
When available:
^ = Redding Air Temp Record High
* = Redding Air Temp Record Low

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



Lake Shasta Isothermobaths
(Water Temperature, in ° F)



Department of the Interior
Bureau of Reclamation
 NCAO

Shasta Lake Profile

Date: 8/5/2015 Time: 9:30 Observer: Gotham, Castro
 Precipitation Last 48 Hours: 0 Weather: smoky and calm
 Thermometer ID: YSI 6600A Air Temperature (Degrees F): 76 Storet Code: SH21

Lake Surface Elevation: <u>955.24</u>	Temperature	Turbidity
All Elevations in M.S.L. (Mean Sea Level)	400 Feet Upstream of Dam	400 Feet Upstream of Dam
	Surface: <u>78.2</u>	Surface: <u>0.5</u>
	Elevation 1050': _____	Elevation 1050': _____
	1025': _____	1025': _____
	1000': _____	1000': _____
	975': _____	975': _____
	950': <u>78.2</u>	950': <u>0.5</u>
	925': <u>74.7</u>	925': <u>0.3</u>
	900': <u>65.7</u>	900': <u>0.1</u>
	875': <u>58.3</u>	875': <u>0.3</u>
	850': <u>52.0</u>	850': <u>0.5</u>
	825': <u>49.7</u>	825': <u>1.3</u>
	800': <u>48.9</u>	800': <u>2.0</u>
Spillway Outlet (Elevation = 942)': <u>0</u>	775': <u>48.4</u>	775': <u>2.4</u>
Spillway Outlet (Elevation = 842)': <u>0</u>	750': <u>48.0</u>	750': <u>2.3</u>
Spillway Outlet (Elevation = 742)': <u>0</u>	725': <u>47.6</u>	725': <u>2.1</u>
Power (Elevation = 815)': <u>3078</u>	700': <u>47.4</u>	700': <u>1.9</u>
Tailbay Water Surface Elevation: <u>582.9</u>	675': <u>47.3</u>	675': <u>2.2</u>
Tailbay Water Temperature: <u>51.3</u>	650': <u>47.3</u>	650': <u>2.2</u>
Tailbay Water Turbidity: <u>2.4</u>	625': <u>47.2</u>	625': <u>2.9</u>

Remarks: TCD gates open" All upper open, middle 1,2,3 open, lower 1,2 open and the side gates are closed. Secchi depth = 17 feet.