



Garwin Yip - NOAA Federal &lt;garwin.yip@noaa.gov&gt;

**Re: June Sacramento River Temperature Management**

1 message

**Maria Rea - NOAA Federal** <maria.rea@noaa.gov>

Fri, Jun 17, 2016 at 5:12 PM

To: "Milligan, Ronald" &lt;rmilligan@usbr.gov&gt;

Cc: PABLO ARROYAVE <parroyave@usbr.gov>, "Wilcox, Carl@Wildlife" <carl.wilcox@wildlife.ca.gov>, David Murillo <dmurillo@usbr.gov>, "mark.cowin@water.ca.gov" <mark.cowin@water.ca.gov>, "Bonham, Chuck@Wildlife" <chuck.bonham@wildlife.ca.gov>, Michelle Banonis <mbanonis@usbr.gov>, "Stein, Russell@DWR" <russell.stein@water.ca.gov>, "Lohoefer, Ren" <ren\_lohoefer@fws.gov>, Barry Thom - NOAA Federal <barry.thom@noaa.gov>, Garwin Yip - NOAA Federal <garwin.yip@noaa.gov>, Kaylee Allen <kaylee\_allen@fws.gov>, Travis Yonts <tyonts@usbr.gov>, "Torgersen, Carl@DWR" <carl.torgersen@water.ca.gov>, Elizabeth Kiteck <ekiteck@usbr.gov>, Shane Hunt <shunt@usbr.gov>, "Leahigh, John@DWR" <john.leahigh@water.ca.gov>, Jeffrey Rieker <jrieker@usbr.gov>, William Stelle <will.stelle@noaa.gov>, "Washburn, Thuy" <TWashburn@usbr.gov>, "Howard, Tom" <Tom.Howard@waterboards.ca.gov>

Thank you for this email, Ron. Based on our previous discussions and review of various scenarios to this point, NMFS concurs with your proposed interim operations of 9000 cfs through the month of June. Specific discussions of TCD operations and the feasibility of meeting specific temperature metrics/locations during this period should continue to be advanced through the SWIM team process. As it is predicted to get very warm next week, I would ask you to call a meeting on Monday to achieve consensus on gate operations. I appreciate the commitment to monitoring and tracking and I look forward to receiving your new plan on Monday.

- Maria

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On Fri, Jun 17, 2016 at 4:32 PM, Milligan, Ronald &lt;rmilligan@usbr.gov&gt; wrote:

Maria,

Reclamation is close to completing our Sacramento River Temperature Plan for 2016, and as we discussed with the Directors this afternoon, we are very close to resolving several key provisions to that plan. We believe we can quickly complete discussion on these remaining details early next week and we plan to share a revised plan with you on Monday.

For now, I have been asked to request your concurrence with an interim set of Shasta-Sacramento River Temperature operations that would extend through the end of the month of June, or until the seasonal plan is completed.

As an interim operation, Reclamation proposes to increase the Keswick release tomorrow morning (18 June) at 0700 hours from 8,000 cfs to 9,000 cfs (in two 500 cfs increments) and maintain that flow rate through the month of June. We also plan to manage Sacramento River water temperatures to 56°F DAT at Balls Ferry through this period. Based on our current modeling, this flow rate will result in an average monthly flow well below our earlier forecasted operations, and will not deplete the current cold water pool in a way that will limit our temperature operations later in the season.

In addition, Reclamation commits to closely monitor temperature performance, TCD operations, and isothermobath characteristics on a weekly basis. The specific tasks include:

- Increased frequency of temperature profiles at Shasta Lake (weekly once flows increase);
- Temperature Model update every week based on the new profile information;
- Weekly SWIM team update calls. Reclamation will ensure that materials are send out to the SWIM Team members prior to the weekly meetings. These materials will include the results of all real-time monitoring or modeling efforts;
- Continue the Monthly in-person SRTTG meetings. These meetings will include a phone-in option for members who cannot participate by phone.

Based on the monitoring information and temperature model results, Reclamation will closely track the critical monitoring metrics, and Reclamation will promptly make operational adjustments as necessary to maintain 56°F DAT at Balls Ferry.

Please let me know if you have any questions.

Ron