

---

**From:** Maria Rea - NOAA Federal <maria.rea@noaa.gov>  
**Sent:** Monday, May 27, 2019 11:33 AM  
**To:** Garwin Yip - NOAA Federal  
**Cc:** Cathy Marcinkevage - NOAA Federal; Howard Brown  
**Subject:** Re: Shasta Uncertainties Table  
**Attachments:** Revised\_Shasta\_Uncertainties\_Table\_V1--GY--MR.docx

with attachment

Maria Rea  
Assistant Regional Administrator, California Central Valley Office  
NOAA Fisheries West Coast Region  
650 Capitol Mall, Suite 5-100  
Sacramento, CA 95814  
(916) 930-3600  
[Maria.Rea@noaa.gov](mailto:maria.rea@noaa.gov)



Find us online

[www.westcoast.fisheries.noaa.gov](http://www.westcoast.fisheries.noaa.gov)



On Mon, May 27, 2019 at 11:31 AM Maria Rea - NOAA Federal <[maria.rea@noaa.gov](mailto:maria.rea@noaa.gov)> wrote:

Thanks, Cathy and Garwin,

Here are my comments. I think this table will make more sense when we have the next text around it documenting the meeting, and Reclamation's clarification of the PA. Of course, as we discussed Friday afternoon, pending performance metrics are not part of those changes, so it make sense we will still have uncertainties related to frequency of being in each tier, as modeled.

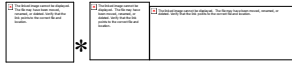
- M

Maria Rea  
Assistant Regional Administrator, California Central Valley Office  
NOAA Fisheries West Coast Region  
650 Capitol Mall, Suite 5-100  
Sacramento, CA 95814  
(916) 930-3600  
[Maria.Rea@noaa.gov](mailto:maria.rea@noaa.gov)



Find us online

[www.westcoast.fisheries.noaa.gov](http://www.westcoast.fisheries.noaa.gov)



On Sun, May 26, 2019 at 12:56 PM Garwin Yip - NOAA Federal <[garwin.yip@noaa.gov](mailto:garwin.yip@noaa.gov)> wrote:  
Thanks, Cathy. Some thoughts in track changes.

-Garwin-

---

*Garwin Yip*  
Water Operations and Delta Consultations Branch Chief  
NOAA Fisheries West Coast Region  
U.S. Department of Commerce  
California Central Valley Office  
650 Capitol Mall, Suite 5-100  
Sacramento, CA 95814  
Office: 916-930-3611  
Cell: 916-716-6558  
FAX: 916-930-3629  
[www.westcoast.fisheries.noaa.gov](http://www.westcoast.fisheries.noaa.gov)



On Sat, May 25, 2019 at 2:25 PM Cathy Marcinkevage - NOAA Federal <[cathy.marcinkevage@noaa.gov](mailto:cathy.marcinkevage@noaa.gov)> wrote:

Fearless leaders --

Attached is a draft revised "Uncertainties Table" from the Shasta Division effects analysis. I feel good in capturing what we discussed earlier this week with one exception -- Reclamation's suggested text referred numerous times to the performance metrics. Given yesterday, I wasn't sure enough of where that stood to be confident in including it at this part of the BiOp. I've indicated those places with comments with yellow highlights.

Also note that in red comment text I've identified where we may need something from Reclamation for the edit to stand (e.g., revisions to the PA, the proposed "terms and conditions", etc.). I can address those in the text the way we discussed yesterday, but did flag here.

Enjoy!  
Cathy