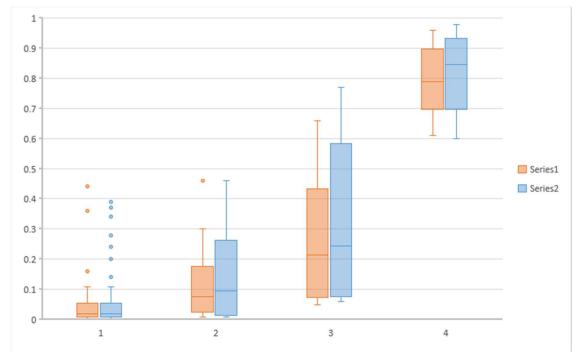
From:	Evan Sawyer - NOAA Federal <evan.sawyer@noaa.gov></evan.sawyer@noaa.gov>
Sent:	Tuesday, April 23, 2019 9:23 AM
То:	Cathy Marcinkevage - NOAA Federal
Subject:	Re: Sac WUA Curves and Other Shasta Things

for what it's worth Miles provided the data for the TDM results and it's easy to produce figures like this:



that's weird(?), the data labels didn't copy and paste with the figure? Just says series 1 & 2? Well, orange is PA_Anderson and blue is PA_Martin. I still think this would be "easy" to produce.

Evan

On Tue, Apr 23, 2019 at 9:05 AM Cathy Marcinkevage - NOAA Federal <<u>cathy.marcinkevage@noaa.gov</u>> wrote:

Awesome, thank you!!!!!

> On Apr 23, 2019, at 7:56 AM, Evan Sawyer - NOAA Federal <<u>evan.sawyer@noaa.gov</u>> wrote:

>

> Hi Cathy,

>

> I think I've answered your questions or provided the relevant information.

> (In the royal PURPLE!)

>

>

> Evan

> On Mon, Apr 22, 2019 at 11:51 PM Cathy Marcinkevage - NOAA Federal <

> cathy.marcinkevage@noaa.gov> wrote: > >> Evan -->>>> A few things that I could use your help in managing while you continue on >> the LCM writeup: >> >> 1. Can you pull for me the WUA curve plots that should go into the Shasta >> section? Your latest draft referred to one for fall-run (as SR proxy) and >> steelhead, both for rearing. >> See the first attached file. I consolidated the files that reclamation >> sent to us with the revised WUA analysis (3/26/19) the available figures >> are there. >> > >>> Also, for the WR plot that's already in the draft, it has: >> Segment 6 w/ ACID boards >> Segment 6 w/o ACID boards >> Reach 5 >> Reach 4 >> >> Any idea why there is reach AND segment? Are they supposed to be the same, >> so we could pick one and be consistent? I want to assume that Segment 6 >> abuts reach 5, but with different names, that's not so clear. >> I believe it should be segment (in earlier versions they were all >> segments). I went and modified the figures accordingly. >> > > >> 2. Garwin and I had a brilliant idea. The Tier figure from Rec is sooooooo >> not to scale. We think someone should make one. So, for instance, to take >> an example year and find the date of first redd and date of last redd and >> adjust the plot to show when the lifestage-specific target would be >> implemented. that I think should be *at least* 67 days. And unless the last >> redd is observed by mid August, that 67 days would put them managing until >> the end of Oct....which is what is typically called for anyhow..... Not >> sure that that is how Reclamation is proposing to operate? Anyhow, we >> thought this would be a good visual, and I thought that you could get >> Stephen on this to help out. Garwin forwarded the following to me, we >> thought that 2014 could be a good year to use. >> Haven't looked at the files but sure I'll talk to Stephen about putting >> this together. >> PPT showing 2014 WR spawning, hatching, and incubation timing that we can >> use as an actual example implementation of the Anderson model: M:\OCAP >> related\OCAP briefing PPTs and presentations\2014-11-18 Fish Agency >> presentation to the SWRCB >> >> 3. Can you point me to "Brycen's Memo to the record"? >> > There are two that I've been using:

> M:\WATER OPS & DELTA BRANCH\Brycen Swart\CVP and SWP Water Ops\Real Time > Opss and RPAs\SRTTG\WY 2016\02 Sac River Temp Planning 2016\Shasta > Operation Temperature Compliance Memo 03.18.2016.pdf > or> M:\WATER OPS & DELTA BRANCH\Brycen Swart\CVP and SWP Water Ops\RPA > Amendment\2017-01-19 Enclosure 3--Shasta RPA Adjustment Admin Memo.pdf >> 4. Miles' work regarding spring pulses. I don't have his IEP presentation >> to know what that it talking about. Can you send me that? And I was cc'd on >> several email exchanges, but I'm not sure if on all. Can you check to see >> if there was anything between him/you that I wasn't on that would be useful >> for me to see? I'm trying to see how we best frame up that section and >> knowing what we are trying to incorporate will help with that. >> Yes. Attached. I looked through my emails and didn't find anything you >> weren't included on but I went ahead and put the email chain in a pdf and >> attached for your convenience(?). >> >> >> 5. In Table 2.5.2-12, for instance, we have Anderson and Martin results >> for WR (a 6% increase in mortality for Anderson, and 9% for martin). Can >> you point me to where those numbers come from (the BA?), and any other info >> we have that provides the range around those numbers? Garwin made this >> comment and I'm following up. >> These numbers were provided by Miles/Eric after they were able to >> "replicate" Reclamation's analysis and then identify TDM by Tier. I've >> attached the summary analysis that Miles put together which has the numbers. >> >>>> 6. Similarly, Garwin had the following comment for Table 2.5.2-13: >> >> *Is the range of temperature-dependent mortality for a single operational >> scenario within Tier 2, or based on the worst (or best) case scenario of >> operations within that range of temperatures?* >> No. The range is for Anderson (hatch) to Martin (emerge) models. The >> numbers represent the mean for each model. Mile provided the range of each >> model (graphically) in the attached PNG file, He also provided the data so >> it would be easy to provide a range for each but I don't know what makes >> sense, quartiles? >> *Same question for the Tier 3 table.* >> >> Same answer but if the question is asking whether the number or range > reflects different shutter configuration "within Tier 2 or Tier 3" I > believe the answer is NO. The TDM results are based on the CalSim results > and HEC5Q modeling but not the 5 example years where HEC5Q results were > revised and which were presented on 3/12/19. I only point this out because > Reclamation is proposing differing operations within a Tier but those are > not presented. >

>> Can you answer these for me, so that we can identify the assumptions going

>> into the model results reflected in this table?	
>>	
>> All for now	
>> Thanks!	
>> Cathy	
>>	
>> PS If you need to do mid-year prep, you can do it before this.	
>> I haven't done anything related to my mid-year review.	
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