From: Barbara Byrne - NOAA Federal <barbara.byrne@noaa.gov>
Sent: Wednesday, March 6, 2019 11:45 AM
To: Brian Ellrott - NOAA Federal
Subject: Re: ROC FAST TURNAROUND METHOD NEED

Cathy, please see some final clarification in green to get Stan and lower SJR SIT results on our list. What I see as a value of the SIT approach is that it can be applied everywhere, so don't want to apply everywhere but the Stan and lower SJR (though perhaps the lookup tables in the SIT are based on the methods already being used -- due to the time crunch I haven't had time to check that).

On Wed, Mar 6, 2019 at 11:04 AM Brian Ellrott - NOAA Federal <brian.ellrott@noaa.gov> wrote:

My responses in NOAA Fisheries blue below.

On Wed, Mar 6, 2019 at 12:46 PM Barbara Byrne - NOAA Federal <barbara.byrne@noaa.gov> wrote:

My responses in red, embedded below.

On Tue, Mar 5, 2019 at 6:36 PM Cathy Marcinkevage - NOAA Federal <cathy.marcinkevage@noaa.gov> wrote:

Didn't realize that the attachment wasn't there. Please see the excel file attached to my original email on Feb 28 at 2:31 pm. Those are the line numbers I refer to. Thanks!

Cathy Marcinkevage
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On Mar 5, 2019, at 5:38 PM, Cathy Marcinkevage - NOAA Federal <cathy.marcinkevage@noaa.gov> wrote:

All --
A few directed questions that will help ICF prioritize work.

Please respond by noon Wednesday.

Evan and Sarah: Lines 26-27 (Sac River Redd Dewatering) and Line 29 (Clear Creek Redd Dewatering). Here's a caveat to that:
Redd dewatering analyses that use monthly time step flow data (Clear Creek) are of questionable value (unless daily flow changes are monotonic over the month). Of course, if the simulated daily time step data (as used in Sac River) do not represent actual flow variations reasonably well, they're not much better than monthly flows.

What priority to you put on this analysis, knowing this caveat?

All, especially Barb: Line 37-39 and 40-48. For lines 37-39 (Stan and Lower SJR floodplain inundation), the result is area inundated based on the average monthly flow. For Lines 40-48 (tribs and bypasses using the SIT relationships), it is area suitable as rearing habitat.

First, I told ICF to prioritize LInes 37-38 to give us Stan results (because there isn't a lot for the Stan in other methods). Any disagreements? We already have some spawning and rearing WUA for the Stan in lines 14-15; I think ICF is already running those numbers. While I'd be interested to see these numbers for the analyses in Lines 37-39, my inclination (without knowing much about the SIT model) is that might be worth running all the SIT model output for all tribs (including the Stanislaus and lower San Joaquin River) in 8 days, rather than taking 5 days to run lines 37-38 (and 39?), and then more time to run some tribs etc in the SIT model.

Next, are there strong feelings on priority of tribs vs bypasses or vice versa for Lines 42-48? Or some tribs vs others? If you really want your division, speak up! As I note above, I'd suggest that we run the SIT model for **all tribs and bypasses** in lieu of (or at least before) the Stan/SJR modeling elements in Lines 37-39. Given what Barb said about Stan/SJR, I'd think a general priority from high to low would be Sac River (mid and low) and bypasses, then Sac River (upper), then American and Feather (if we're analyzing Feather), then lower San Joaquin River, then Stanislaus River.

Finally, what format would you want to see results? Average acres per month? And by water year type? Or exceedance plots for each month and WYT? Exceedance tables for each month and WYT with a COS-PA comparison, like the tables in Appendix D, Attachment 3-1, would be helpful. I'd also like (one each for PA and COS scenarios) a bar chart or box and whisker chart with average acres/month on the y-axis, with "month" on the x-axis and, for each month, a cluster of bars or box-and-whiskers with a different bar/box-and-whisker for each water yeartype. I'd also want an excel file of results so we can generate whatever summary we like. I'd be fine with just exceedance plots.

Evan and Sarah : SALMOD. The SALMOD model is applied to the Upper Sac, with that broken into five (I think) reaches and results generayed for each reach. I don't know that we need all reaches. Could you look at the CWF SALMOD description and analysis and tell me which reaches we need, and if all of them, which we need first /most? I think reach 5 may be the most useful. I can point you to the locations in the CWF BiOp Wed morning.

All for now. Thanks all!

Cathy

On Thu, Feb 28, 2019 at 2:31 PM Cathy Marcinkevage - NOAA Federal <cathy.marcinkevage@noaa.gov> wrote:

> All --
>
> Please see the attached list of WUA and IFIM related methods. This is in response to an initial request from us to ICF. The green rows are more specific to our request, and the rest are similar/related by weren't asked for specifically.

Please respond by noon tomorrow with an indication of methods that you would like completed for your division.

Note that the last column is ICF's take on the method -- if you have more "on the ground" or update knowledge that differs, you should defer to your own expertise.

Let me know if you have any questions.

Thanks!
Cathy

---------- Forwarded message ---------
From: **Ellis, Gregg** <Gregg.Ellis@icf.com>
Date: Thu, Feb 28, 2019 at 1:50 PM
Subject: Available models.xlsx
To: Cathy Marcinkevage - NOAA Federal (cathy.marcinkevage@noaa.gov)
<cathy.marcinkevage@noaa.gov>

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