
From: Barbara Byrne - NOAA Federal <barbara.byrne@noaa.gov>
Sent: Tuesday, July 31, 2018 1:12 PM
To: Harrison, Katrina
Cc: Garwin Yip - NOAA Federal
Subject: Re: Science Request

Follow-up on American River FMS:

Is Reclamation asking for feedback on the "Modified FMS" from 2015, available at: <http://www.waterforum.org/the-river/flow-management-standard/>?

My first inclination is that the modeling and analysis associated with that Modified FMS will not necessarily be applicable if Reclamation is proposing to remove the end-of-December and end-of-May minimum storage requirements from the plan.

On Tue, Jul 31, 2018 at 1:04 PM, Barbara Byrne - NOAA Federal <barbara.byrne@noaa.gov> wrote:
Katrina -- I have a few questions; discussing on the phone may be easiest.

1. What do you mean by New Melones RPO? Do you mean the 1997 New Melones IPO (attached)? The IPO is very different from the BiOp -- please clarify what operations Reclamation is seeking feedback on.
2. Which FMS is Reclamation requesting feedback on? I checked in with our ARG lead who says there are not (strict) carryover storage targets in the "current" FMS, but that he's seen a presentation on a "new" FMS that he thinks does have carryover storage targets. If Reclamation is requesting feedback on a "new" FMS, please send over the specifics of that new plan. If Reclamation is requesting feedback on the "current" FMS, please clarify what you mean by "without carryover storage targets".
3. Can you confirm that you got Jeff Stuart's big compilation of materials?

On Tue, Jul 31, 2018 at 12:33 PM, Harrison, Katrina <kharrison@usbr.gov> wrote:
Hi Barb -

Is this something you can get folks working on in Garwin's absence? We have been instructed to start working on the long-term ROC on LTO project description and have a draft in the next month or two. It appears that strong scientific support will help actions for fish be included in the project description. We would really appreciate any articles / science you can provide, and if you provide your key take-aways from the studies that is even better. We are thinking:

- Citation
- Topic
- Key Take-aways / Inference (which Reclamation will update to ours)
- Quote / page-number of key takeaway
- Qualifiers / Caveats / Limitations of the study

This is what we are currently trying to pull together for initial actions, but also need to do it for long-term actions concurrently.

Thank you,

Katrina

----- Forwarded message -----

From: **Harrison, Katrina** <kharrison@usbr.gov>

Date: Tue, Jul 31, 2018 at 12:17 PM

Subject: Science Request

To: Garwin Yip - NOAA Federal <garwin.yip@noaa.gov>

Hello Garwin -

Can you please send us any and all relevant science to support possible changes to operations for the long-term ROC on LTO? In the long-term ROC on LTO, we are hoping to address operational changes overall as well as build structured decision making (life-cycle) models for all the species so we can direct resources to the limiting factors. In particular, for science, I am thinking of:

- Shasta temp management - papers on temp strategies - holding water cold until you run out versus hot, cold, hot; other strategies; why is 7DADM more relevant than daily averages, do other operators operate to 7DADM in other systems;
- Trinity Requirements - what is NMFS's balance between coho / Winter-run; is more water from the Trinity system needed;
- New Melones RPO - does NMFS have any issues with this, if so please provide scientific support for why;
- American River FMS (without carryover storage targets) - does NMFS have any issues with this, if so please provide scientific support for why;
- Habitat Restoration - what habitat restoration is actually needed for each of the salmonid species at this point, where should we focus our efforts?
- Green Sturgeon: What existing modeling tools are there for the life-cycle of this species? What are their key limitations? How would we go about analyzing factors for them?

Anything else you can provide would be great too.

Thanks,

Katrina Harrison
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