

Barbara Byrne - NOAA Federal

From: Barbara Byrne - NOAA Federal
Sent: Thursday, April 25, 2019 4:37 PM
To: Howard Brown - NOAA Federal
Cc: Evan Sawyer - NOAA Federal; Sarah Gallagher - NOAA Federal; J. Stuart; Cathy Marcinkevage; Garwin Yip
Subject: Uncertainties doc update
Attachments: 2019.04.25_Uncertainties--BB--SG--JS.docx

Here is the latest document. Includes Clear Creek, American, Delta, Stanislaus/SJR

On Thu, Apr 25, 2019 at 2:49 PM Howard Brown - NOAA Federal <howard.brown@noaa.gov> wrote:

I think uncertainties regarding effects are the main thing that I am looking for. I think that there are really three tiers to choose from with the first probably being the top priority (sorry Evan, no 4th tier)

1. Uncertainties in how a species or habitat would actually respond to an actions.
2. Uncertainties related to process for decision making
3. Uncertainties related to scientific understanding or interpretation of science

Hope that helps.

Howard

On Thu, Apr 25, 2019 at 2:33 PM Evan Sawyer - NOAA Federal <evan.sawyer@noaa.gov> wrote:

Hey Howard,

I have a question regarding the type of uncertainty you're looking for? I don't know about other Divisions but in the Sacramento River there are 2 types of uncertainties: uncertainties related to the way the PA is (or isn't) described (operational uncertainty?), and uncertainty as to what effects are?

Using the proposed spring pulse as an example, that project component has both types of uncertainty.

- First, it's uncertain when Reclamation would implement a pulse because of the caveats to implementation and whether a spring pulse would cause "Reclamation to drop into a lower Tier of the Shasta summer temperature management or interfere with the ability to meet other anticipated demands on the reservoir."
- Second, it's uncertain as to the effect of the spring pulse. There is the indication that a spring pulse would benefit outmigrating juveniles and there is a study proposal to look at these effects but there is still uncertainty.

I think the second uncertainty, the type that would benefit from adaptive management, is what you're looking for?

Thanks,
Evan

On Thu, Apr 25, 2019 at 2:03 PM Howard Brown - NOAA Federal <howard.brown@noaa.gov> wrote:

Sorry for this late-in-the-day request, by I am hoping you folks might be able to pull together a short list of key uncertainties from your effects analysis drafting. I am meeting with Reclamation and FWS

tomorrow to discuss adaptive management and it would be more than helpful to get your latest views on uncertainty. I suggest now more than key uncertainties per division. Short bullet points would be perfect. COB today would be ideal!

Thank you!

Howard

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Howard L. Brown

Policy Advisor

NOAA Fisheries, West Coast Region

U.S. Department of Commerce

(916) 930-3608

Howard.Brown@noaa.gov



www.westcoast.fisheries.noaa.gov

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Evan Bing Sawyer,

Natural Resource Management Specialist

NOAA Fisheries West Coast Region

U.S. Department of Commerce

Office: (916) 930-3656

Evan.Sawyer@noaa.gov

www.westcoast.fisheries.noaa.gov



Howard L. Brown

Policy Advisor

NOAA Fisheries, West Coast Region

U.S. Department of Commerce

(916) 930-3608

Howard.Brown@noaa.gov



www.westcoast.fisheries.noaa.gov

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Barb Byrne

Fish Biologist

NOAA Fisheries West Coast Region

U.S. Department of Commerce

Office: 916-930-5612

barbara.byrne@noaa.gov

California Central Valley Office
650 Capitol Mall, Suite 5-100
Sacramento, CA 95814



Find us online

www.westcoast.fisheries.noaa.gov

