
From: Barbara Byrne - NOAA Federal <barbara.byrne@noaa.gov>
Sent: Thursday, April 25, 2019 2:45 PM
To: Evan Sawyer - NOAA Federal
Cc: Howard Brown - NOAA Federal; Sarah Gallagher - NOAA Federal; J. Stuart; Cathy Marcinkevage; Garwin Yip
Subject: Re: Uncertainties

Howard just dropped by my office on another matter and I asked him this very question. I think the answer is "both", with perhaps a slight emphasis on the second type.

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



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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

