
From: Joe Heublein - NOAA Federal <joe.heublein@noaa.gov>
Sent: Friday, May 24, 2019 11:35 AM
To: Naseem Alston - NOAA Federal; Brian Ellrott; Brittany Cunningham - NOAA Affiliate
Subject: Re: Take Outline

Hi Naseem,

I think the approach taken in Table 13-3 from OCAP 2009 is the best we can do for take, there's ~6 American River categories that probably transfer directly over to ROCON. There is some discussion of redd stranding in the American R effects. We could attempt to model conditions and redd numbers associated with documented dewatering/stranding events and apply frequency of those conditions under the PA but I think that's impossible given our time constraints. In the latest comments from BOR there is also some proposed monitoring of stranding/dewatering which may reduce take but this also would be difficult to quantify.

-Joe

On Tue, May 21, 2019 at 4:59 PM Naseem Alston - NOAA Federal <naseem.alston@noaa.gov> wrote:
Division Leads,

Brittany and I are working on the Take Statement, and it would be a big help if you could give us **a few moments (15 min)** of your time.

Please take a look at the attached one-pager [Take Outline table](#) (also on the drive: R:\Draft BiOp\2_ESA\2.11 ITS - Take Outline)

It is a *super quick/dirty* outline of the general categories of take per division based on the I&S tables.

I'm sure there are many more specific rows to add, but what we are looking for is your initial thoughts on what might be used for a surrogate.

(do we have actual numbers/data? do we have modeled numbers? might we use size of habitat affected? temps/flows? etc)

If you can take a quick look this week (**check with managers on priorities if needed**) - and let us know you've looked and offered some ideas (or had none), we'd really appreciate it!

thanks for your time,

Naseem O. Alston
ESA-Section 7 Coordinator/Fish Biologist
NOAA Fisheries West Coast Region
U.S. Department of Commerce
California Central Valley Office
Sacramento, CA
(916)930-3655
<http://www.westcoast.fisheries.noaa.gov/>

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Joe Heublein
California Central Valley Office
650 Capitol Mall, Suite 5-100
Sacramento, CA 95814
Office: 916-930-3719
FAX: 916-930-3629
joe.heublein@noaa.gov
www.westcoast.fisheries.noaa.gov

