

Barbara Byrne - NOAA Federal

From: Barbara Byrne - NOAA Federal
Sent: Wednesday, May 22, 2019 4:28 PM
To: Kristin Begun - NOAA Affiliate
Subject: Re: Take Outline

I agree -- we don't have direct fish-based measures.

On Wed, May 22, 2019 at 3:46 PM Kristin Begun - NOAA Affiliate <kristin.begun@noaa.gov> wrote:
Hi Barb,

Have you had a chance to look at Naseem's ITS outline? I'm thinking all effects on the Stan and SJR should use an ecological surrogate to determine take, by area of affected river. We don't have solid numbers of spring-run or steelhead, so a surrogate might be easier. What are your thoughts?

Kristin Begun | Biologist

Contractor with Lynker Technologies
Water Operations and Delta Consultations Branch
NOAA Fisheries West Coast Region
kristin.begun@noaa.gov

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
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