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**From:** Brian Ellrott - NOAA Federal <brian.ellrott@noaa.gov>  
**Sent:** Friday, April 5, 2019 12:40 PM  
**To:** Evan Sawyer - NOAA Federal  
**Subject:** Re: Status of Sacramento I&S table

Does the following imply that the minimum flows under the PA are generally higher than the minimums under the COS, which results in increased carrying capacity? (Context is spring flows.)

"Increased habitat carrying capacity (WUA) at lower flows providing increased feeding conditions, and decreased competition and predation."

On Fri, Apr 5, 2019 at 11:07 AM Brian Ellrott - NOAA Federal <[brian.ellrott@noaa.gov](mailto:brian.ellrott@noaa.gov)> wrote:

Thanks Evan! Off and running on winter-run, no worries at all about spring-run. I likely won't get to them until early- to mid-next week.

On Fri, Apr 5, 2019 at 11:03 AM Evan Sawyer - NOAA Federal <[evan.sawyer@noaa.gov](mailto:evan.sawyer@noaa.gov)> wrote:

Hey Joe, Brian,

I don't want to keep you waiting so I'm letting you know that the I&S tables for the Sacramento River effects is updated on the ROCON drive. I feel it's up to date for WR and GS but I need to review SR and Sh. I also have to do CH but I'm struggling a bit because the format that CH is presented in the effects section is different than for species. Anyway, I'm trying to accommodate your schedule as best I can. You can find the table here: R:\Draft BiOp\2\_ESA\2.5-2.6 Effects of the Action\Shasta Division\Sacramento River\2019.03.21\_Excel template for I&S tables for Sacramento River.xls

One thing (or many) about the species effects are I still don't know how we are (or aren't) incorporating the programmatic action components. I've included them in the tables but you can see the results are... uncertain.

Oh, and If you have ANY opinions on what's in the table let me know and we can discuss.

Evan

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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](mailto:Evan.Sawyer@noaa.gov)  
[www.westcoast.fisheries.noaa.gov](http://www.westcoast.fisheries.noaa.gov)



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**Brian Ellrott**

*Central Valley Salmonid Recovery Coordinator*

*NOAA Fisheries West Coast Region*

*U.S. Department of Commerce*

Mobile: 916-955-7628

Office: 916-930-3612

[brian.ellrott@noaa.gov](mailto:brian.ellrott@noaa.gov)

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**Brian Ellrott**

*Central Valley Salmonid Recovery Coordinator*

*NOAA Fisheries West Coast Region*

*U.S. Department of Commerce*

Mobile: 916-955-7628

Office: 916-930-3612

[brian.ellrott@noaa.gov](mailto:brian.ellrott@noaa.gov)