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**From:** Barbara Byrne - NOAA Federal <barbara.byrne@noaa.gov>  
**Sent:** Friday, April 12, 2019 1:41 PM  
**To:** Howard.Brown; Garwin Yip - NOAA Federal; Cathy Marcinkevage; Joe Heublein - NOAA Federal; Ellrott, Brian  
**Cc:** Kristin Begun - NOAA Affiliate  
**Subject:** Full Stan & SJR analysis and I&S tables\* posted

**(alert -- I found an error in my Stan SR temperature evaluation and revised the effects write-up and made a minor revision to the I&S table to fix)**

I am done with my BiOp sections (see V4), including  
2.5.7 Effects to Species (SH and SR) for the Stanislaus River (includes Kristin's sections)  
2.5.8 Effects to Species (SH and SR and GS) for the San Joaquin River.  
2.6.7 Stanislaus River CH  
2.6.8 San Joaquin River CH.

Additionally, I drafted (a while ago) introductory text (included in this doc in the appropriate section) for:  
2.5 Effects to species  
2.6 Effects to Critical Habitat

I am complete with all I&S tables **EXCEPT for those related to CH:**

Stanislaus SH  
Stanislaus SR  
San Joaquin SH  
San Joaquin SR

\*\*\*I did a quickie evaluation of green sturgeon in the SJR, but basically deferred to the Delta section so there is no I&S table for San Joaquin GS\*\*\*

**New docs:**

*2.5 and 2.6 East Side Effects V4.doc* in CVP ROCON\Draft BiOp\2\_ESA\2.5-2.6 Effects of the Action\East Side Division: Contains (a) complete SJR "division" and (b) updated Stanislaus (see first revision bullet below) and (c) CH and (d) some intro text to Effects to Species and Effects to CH sections. Only (a) and (b) have changed since V3.

*San Joaquin I&S table for species\_SH.doc* in CVP ROCON\Draft BiOp\2\_ESA\2.8-2.9 Integration and Synthesis and Conclusion\SH Tables

*San Joaquin I&S table for species\_SR.doc* in CVP ROCON\Draft BiOp\2\_ESA\2.8-2.9 Integration and Synthesis and Conclusion\Spring-run Tables

**Revised:**

*2.5 and 2.6 East Side Effects V4.doc* contains revised temperature analysis for CV spring-run in the Stanislaus River section; I realized last night that I used WOA data not PA data so needed to re-do. Relative to WOA, temp effects under the PA are definitely less problematic, problematic in fewer locations, and in fewer yeartypes...but still are some unsuitable places and months and yeartypes. And it seems that modeled temps trend a bit cool relative to recent actual temps...

*Stanislaus I&S table for species\_SR\_V2.doc* in CVP ROCON\Draft BiOp\2\_ESA\2.8-2.9 Integration and Synthesis and Conclusion\Spring-run Tables. Minor update to temperature-related rows based on error found last night.

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