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**From:** Brian Ellrott - NOAA Federal <brian.ellrott@noaa.gov>  
**Sent:** Tuesday, May 14, 2019 10:08 AM  
**To:** Sarah Gallagher - NOAA Federal  
**Subject:** Re: I&S tables for Clear Creek-update on my edits

Thanks. That helps. How's this?

On Tue, May 14, 2019 at 8:59 AM Sarah Gallagher - NOAA Federal <[sarah.gallagher@noaa.gov](mailto:sarah.gallagher@noaa.gov)> wrote:  
Yes, lumped looks good, I just added 'upstream' to location.

See attached and my comment on how was thinking through magnitude of effect-at least with spring attraction pulse flows. Consider the objective of the beneficial action together with proportion and frequency. However, it would also seem important to know how much it would change fitness, and that may be too uncertain?

**Sarah Gallagher | Fish Biologist**  
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916-930-3712 | [Sarah.Gallagher@noaa.gov](mailto:Sarah.Gallagher@noaa.gov)

On Tue, May 14, 2019 at 8:22 AM Brian Ellrott - NOAA Federal <[brian.ellrott@noaa.gov](mailto:brian.ellrott@noaa.gov)> wrote:  
Yeah, probably cleaner for me to paste it in. Are you ok with how I lumped WT impacts on eggs in the attached?

Also, let me know how you assigned a magnitude of effect for the conservation measures/beneficial actions. We need a way to do that in the AA. My initial thought is that we just don't assign magnitude because we don't have a framework the way we do for stressors, but maybe we can all use the approach you used.

On Mon, May 13, 2019 at 5:30 PM Sarah Gallagher - NOAA Federal <[sarah.gallagher@noaa.gov](mailto:sarah.gallagher@noaa.gov)> wrote:  
**Brian, instead of adding my tables into the I&S, here is a clean copy. I can add it to I&S, but felt like it made it complicated with the track changes, and maybe waiting to see what we need to change based on your email to the team on what to include.**

**Sarah Gallagher | Fish Biologist**  
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On Mon, May 13, 2019 at 9:38 AM Brian Ellrott - NOAA Federal <[brian.ellrott@noaa.gov](mailto:brian.ellrott@noaa.gov)> wrote:

Same here Sarah, just paste the updated table into the spring-run I&S version listed below. I'm in it right now, but let me know when you want in and I can switch to the winter-run I&S.

R:\Draft BiOp\2\_ESA\2.8-2.9 Integration and Synthesis and Conclusion  
2.8 Integration and Synthesis ELLROTT SR V2

Thanks,  
Brian

On Fri, May 10, 2019 at 9:38 AM Joe Heublein - NOAA Federal <[joe.heublein@noaa.gov](mailto:joe.heublein@noaa.gov)> wrote:  
Hi Sarah,

You can just paste into the latest version on ROCON- 2.8 Integration and Synthesis SH V3--GY-SG  
(CLEAR)

Maybe leave the old table with all the comments though

Thanks

Joe

On Fri, May 10, 2019 at 8:57 AM Sarah Gallagher - NOAA Federal <[sarah.gallagher@noaa.gov](mailto:sarah.gallagher@noaa.gov)> wrote:  
As I mentioned to you both yesterday, I am working on cleaning up the Clear Creek tables and I have a new clean version of the I&S TABLE for Clear creek on my desktop that I updated. Still working with it to make effects tables. It was easier to just make a new table so I could see what I was doing. There were only track changes from me in the I&S, and I left and addressed comments that Brian had.

When I am finished, I would like to update the I&S sections. Let me know the best way to go about doing this (me copy and paste into your document, send it straight to you). Whatever I can do.

**Sarah Gallagher | Fish Biologist**  
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**Brian Ellrott**

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**Brian Ellrott**

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