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**From:** Joe Heublein - NOAA Federal <joe.heublein@noaa.gov>  
**Sent:** Wednesday, May 15, 2019 3:41 PM  
**To:** Brian Ellrott - NOAA Federal; Boring, Susan  
**Cc:** Garwin Yip - NOAA Federal; Cathy Marcinkevage - NOAA Federal  
**Subject:** Re: Capturing beneficial effects in the effects and I&S sections

Hey Brian,

Back to formatting these I&S tables. I'm using something like option 3, most of the division leads already assigned magnitude to beneficial effects and included 'Beneficial' in the Severity of Stressor column. I'm just applying the magnitude level to the benefit column (low magnitude=low benefit) and organizing the tables sequentially:

high magnitude stressors, high magnitude benefits, medium magnitude stressors, medium magnitude benefits, low magnitude stressors, low magnitude benefits, uncertain stressors, NA

I've revised uncertainty in most rows based on my assumed benefit/effect but obviously everything should go back to division leads to verify accuracy when this is done

Thanks

Joe

This approach would require rationale within the magnitude cell to justify why high, medium, or low was selected

On Tue, May 14, 2019 at 3:11 PM Brian Ellrott - NOAA Federal <[brian.ellrott@noaa.gov](mailto:brian.ellrott@noaa.gov)> wrote:  
Nice Garwin. Way to keep this sucker moving.

Here are the options I mentioned. Looks like we're on a path for option 1, but still subject to change.

Potential options for incorporating beneficial actions into the summary tables:

1. Use existing stressor based framework for assigning magnitude but instead of lethal, sublethal, and minor for stressor severity we use categories of low benefit, medium benefit, and high benefit. Then table 2.1.3-2 from the AA can be applied to assign magnitude of effect.
2. Do not assign magnitude for beneficial actions. Just rely on response description and probable fitness change
3. Do not use the framework described in number one, but magnitude can be assigned based on professional judgment, frequency of exposure, and proportion of population affected. This approach would require rationale within the magnitude cell to justify why high, medium, or low was selected.

On Tue, May 14, 2019 at 2:57 PM Garwin Yip - NOAA Federal <[garwin.yip@noaa.gov](mailto:garwin.yip@noaa.gov)> wrote:  
Brian--Good chat.

Brian and Joe:

- Please include (undelete) those rows in the I&S tables that reflect beneficial effects of the various PA components.
- Make sure not to combine beneficial and adverse effects in a single row.
- The column heading "Severity of Stressor" should be changed to "Severity of Stressor/Level of Benefit," and for beneficial effects, use "Low, Medium, or High." The rest of the column heading should remain the same.
- Don't wait for Cathy to update the analytical approach before you do the above. Right now, I think it's more important to capture the beneficial effects than to do this sequentially and make sure each step is tight and right before moving to the next step.

Division leads:

- When Brian and Joe are done with your division, they will let you know to make sure those beneficial effects are captured in your effects tables.

Cathy:

- Placeholder for you to update the analytical approach section to reflect beneficial aspects of PA components, both in the stressor table and text.

Effects/I&S tables:

- Look at the effects and I&S tables for words that convey uncertainty, and change them, if possible, to something with more likelihood. For example, if you have to make an assumption in your analysis, characterize the effect based on the assumption you made, even if there is some uncertainty.

-Garwin-

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*Garwin Yip*

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On Tue, May 14, 2019 at 12:22 PM Boring, Susan <[susan\\_boring@fws.gov](mailto:susan_boring@fws.gov)> wrote:

Hi All -

Just a heads up - As Norma, Brittany, and I are incorporating Endnote citations into your sections, the references we use will be listed as a bibliography at the end of the document. Please just ignore them. You can even put a page break if you like. They are linked to the CVO References Library and should not be edited in individual documents.

If you have a question or concern with anything you see there, please ask me and I will make sure it's addressed by the correct person!

Thanks  
Susan

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