
From: Stephen Maurano - NOAA Federal <stephen.maurano@noaa.gov>
Sent: Thursday, May 16, 2019 12:18 PM
To: Barbara Byrne - NOAA Federal
Cc: Cathy Marcinkevage; Garwin Yip - NOAA Federal; Dan Lawson - NOAA Federal
Subject: Re: Help with SRKW updates?

Hi Barb, Finished. Additional details are below **inline**. Let me know if there's anything else I can do. Cheers,
Stephen

On Thu, May 16, 2019 at 9:57 AM Barbara Byrne - NOAA Federal <barbara.byrne@noaa.gov> wrote:
Stephen, Cathy said you could be available to help with some SRKW section updates. Here's what updates
are needed:

1. Correct "salvage-density table" is in the workbook Salvage density for SRKW prey_salvage.xls (in R:\Draft BiOp\7_Appendices\Appendix SRKWprey\Data for admin record) **replaced "salvage" with "loss" in the column titles and calculated a "% Change" column (to be consistent with the tables being replaced in the BiOp)**. Confirmed with Susan that table should be pasted as an image into word files.
2. Make sure ChinookProduction_V4.srb.doc (in R:\Draft BiOp\7_Appendices\Appendix SRKWprey) has the correct "salvage-density table", and all associated text refers to the correct numbers. **Used table referenced in #1 above to replace Table 1-2. Checked for consistency by searching for the words "salvage", "loss" and the Table number, plus reviewing the citation and surrounding text. Saved corrected file in the same folder you referenced but with my initial appended to the new filename, and I archived the previous version. On a side note: the document does use the terms "salvage density model" "salvage-density analysis" and "loss densities" so perhaps the terminology could be harmonized, but regardless the references to the table all appear to be correct.**
3. Make sure SRKW effects analysis V5.doc (in R:\Draft BiOp\2_ESA\2.5-2.6 Effects of the Action\Effects on SRKW) has the correct "salvage-density table", and all associated text refers to the correct numbers. **Same approach as #2 above. Replaced Table XXX in 2.5.8.1.4.12. I flagged three items:**
 - **2.5.8.1.2.1 (Winter run) "Based on projected salvage under the PA, thousands of winter-run Chinook salmon juveniles are expected to be salvaged at the south Delta export facilities under the PA in every water year type..."** I think this may be slightly overstated in light of the corrected numbers since it appears thousands will be lost (not salvaged) for most water year types (not "Critical" which is <2k).
 - **2.5.8.1.2.3 (Fall-run and Late Fall-run) "The proposed increase in exports will increase the number of fish from these populations entrained into the fish salvage facilities as indicated by the substantial increases in salvage predicted using the salvage density model."** I know one is a surrogate for the other, but perhaps this should say "lost" rather than "salvage" since in the table we're reporting the former.
 - **2.5.8.1.4.12 (Limitation of Model Estimates of Productivity Changes under PA Compared to COS) "This salvage-density analysis does not estimate what proportion of Central Valley fall-run Chinook salmon are lost, so we are unable to determine a population level effect at this time, and loss estimates are not explicitly factored into the models of changes in Chinook productivity."** You edited

this sentence, so assuming it's already corrected, but I didn't fully understand, so just wanted to double check: we have loss estimates due to the pumps, but is this referring to loss at a different scale?

4. Check Integration SRKW V2 DL.doc (in R:\Draft BiOp\2_ESA\2.8-2.9 Integration and Synthesis and Conclusion) to make sure nothing needs updating (I took a quick look and don't think these loss specifics are mentioned, but please confirm and correct if needed). **Didn't find anything needing updating, so no edits.**

Dan, I don't think this changes your analysis, just makes sure the correct values from this analysis are included. We got some clarification on the modeling this week and learned that despite being called "salvage", the original results in the workbooks were already (for salmonids) converted to loss. Sigh.

Thanks,
Barb

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