From: Barbara Byrne - NOAA Federal <barbara.byrne@noaa.gov>
Sent: Sunday, June 2, 2019 6:42 PM
To: Evan Sawyer - NOAA Affiliate; Hannon, John
Cc: Cathy Marcinkevage; Garwin Yip - NOAA Federal
Subject: Help with understanding IOS summaries
Attachments: IOS consistency check.docx; IOS_results_summary_2_28_19_see ESCAPEMENT TAB.xlsx; SRKWpreyappendix_V4_MASTER.docx; 2.5.9 LifeCycle Models--V4_ForDistribution.docx

John and Evan -- Looking for some help from you both in walking through the calculations underlying your IOS summaries.

Attached are:
1. *IOS consistency check.doc:* Summary of potential discrepancies, drafted by me.
2. *SRKWpreyappendix_V4_MASTER.doc*: Drafted by John.
3. *2.5.9 LifeCycle Models--V4_ForDistribution.doc*: Drafted by Evan
4. *IOS_results_summary_2_28_19_see ESCAPEMENT TAB.xls*: Pulled from ROC LTO BA supplemental modeling files; I am assuming you both used data from the "Escapement" tab.

Please review item #1 and help me understand how the numbers in your docs (#2 for John, #3 for Evan) relate to the escapement numbers in item #4.

We don't necessarily have to have the exact same approach for IOS in every section, but at least want to be able to
(a) reproduce the numbers in each case (I couldn't, but maybe I don't understand the approach you each took) and
(b) explain the differences between the **0.2% diff described in the LCM section** (Evan's approach based on median escapement observed during the modeled period -- i.e. median PA minus median COS as a % of median COS) and **10.5% diff described in the SRKWprey appendix** (John's approach based on the difference in change in escapement over the modeled period -- i.e. (PA end-PA begin) minus (COS end-COS begin) as a % of (COS end-COS begin)...I think).

Thanks for helping with figuring out these analyses.

Barb
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