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

--

Barb Byrne

Fish Biologist

NOAA Fisheries West Coast Region
U.S. Department of Commerce
Office: 916-930-5612

barbara.byrne@noaa.gov
California Central Valley Office
650 Capitol Mall, Suite 5-100
Sacramento, CA 95814



Find us online

www.westcoast.fisheries.noaa.gov

