

## SALMON TECHNICAL TEAM REPORT ON RESEARCH AND DATA NEEDS

The Salmon Technical Team (STT) has reviewed the list of preliminary research and data needs priorities provided by the Scientific and Statistical Committee (SSC) in Agenda Item C.2 SSC Report 1.

Regarding the item referencing “Double index tagging (DIT) of all salmon exploitation rate indicator stocks and electronic sampling in salmon fisheries” under the ‘Data Collection’ topic (page 2), the STT notes that this recommendation may be out of date. For Chinook, recent methods developed by the Pacific Salmon Commission (PSC) to account for the effects mark-selective fisheries (MSFs) using single-index tags have reduced the importance of establishing DIT programs for all exploitation rate indicator stocks ([PSC CYER Workgroup 2023](#)). As a result, the PSC has adopted a recommendation to implement a strategically developed DIT indicator network for Chinook. This DIT network would result in fewer DIT programs coastwide, but would also consider adding stocks in new geographic regions that currently lack representation. Consideration of stocks to maintain in the DIT network would be determined based on feasibility of implementation, the quality of marked and unmarked coded-wire tag escapement estimates, and the intensity and pattern of MSFs that the stock is exposed to. These remaining DIT programs would serve an important role in that they would be used to validate the results of analyses conducted using single-index tags. A workgroup has also been recently established within the PSC forum to review the value of DIT programs for coho.

Based on these developments, there no longer appears to be a need for double index tagging of *all* salmon exploitation rate indicator stocks. The STT recommends revising the language for this recommendation to read: “Double index tagging (DIT) of relevant salmon exploitation rate indicator stocks and electronic sampling in relevant salmon fisheries.”

### *Literature Cited:*

Pacific Salmon Commission Calendar Year Exploitation Rate (PSC CYER) Workgroup. 2023. Recommended Transition Plan for Estimating Calendar Year Exploitation Rates for Chinook Salmon Escapement Indicator Stocks Impacted by Mark-Selective Fisheries. Pacific Salmon Commission Technical Report No. 50. 21p.