

SALMON METHODOLOGY REVIEW

Each year, the Scientific and Statistical Committee (SSC) and Salmon Technical Team (STT) complete a methodology review to help assure new or significantly modified methodologies employed to estimate impacts of the Council's salmon management use the best available science. The Methodology Review is also used as a forum to review updated stock conservation objective proposals. This review is preparatory to the Council's adoption, at the November meeting, of all anticipated methodology and conservation objective changes to be implemented in the coming season, or in certain limited cases, of providing directions for handling any unresolved methodology problems prior to the formulation of salmon management alternatives in March. Because there is insufficient time to review new or modified methods at the March meeting, the Council may reject their use if they have not been approved the preceding November.

At its September 2014 meeting, the Council approved the items listed below for this year's methodology review. The methodology review meeting of the SSC Salmon Subcommittee, the STT, and the Model Evaluation Workgroup was held on October 21-23, 2014 where a detailed review of the following items occurred.

- Willapa Bay natural coho conservation objective, annual catch limit and status determination criteria, (Agenda Item F.2.a, Attachment 1).
- New conservation objective for Grays Harbor Chinook (Agenda Item F.2.a, Attachment 2).
- Standardized method for calculation of age-2 Fishery Regulation Assessment Model (FRAM) stock scalars (Agenda Item F.2.a, Attachment 3).
- Estimated non-local Chinook stock impacts in terminal fisheries (Agenda Item F.2.a, Attachment 4).
- Review of fishery impact estimation methodology relative to the Cape Flattery Control Zone (Agenda Item F.2.a, Attachment 5).
- Southern Oregon coastal Chinook conservation objective (Agenda Item F.2.a, Attachment 6).

The following two topics were presented as informational items that do not propose any methodology changes for 2015:

- Progress report on new Chinook Fishery Regulation Assessment Model (FRAM) base period.
- Coho FRAM and proposed revisions to Lower Columbia River coho harvest policy.

In a parallel process, the Economic Subcommittee of the SSC has been reviewing changes to salmon fishery economic impact estimation methodology in 2014, including a transition from Fishery Economic Assessment Model (FEAM)-based to IO-PAC (Input-Output Model for Pacific Coast Fisheries)-based models (Agenda Item F.2.a, Attachment 7). A presentation on the economic review was provided at the October salmon methodology review meeting.

The results of all of these methodology reviews will be presented to the full SSC and the Council at the November Council meeting where the Council is scheduled to approve new methodologies and conservation objectives.

Council Action:

- 1. Approve new and modified methodologies and conservation objectives as appropriate.**
- 2. Provide guidance, as needed, for any unresolved methodology issues.**

Reference Materials:

1. Agenda Item F.2.a, Attachment 1: Status Determination Criteria for Willapa Bay Natural Coho.
2. Agenda Item F.2.a, Attachment 2: Development of escapement goals for Grays Harbor fall Chinook using spawner-recruit models.
3. Agenda Item F.2.a, Attachment 3: Standardized Method to Calculate Chinook Age 2 FRAM Stock Recruit Scalars, Based Upon the Age 3 Forecast.
4. Agenda Item F.2.a, Attachment 4: A Method for Utilizing Recent Coded Wire Tag Recovery Data to Adjust FRAM Base Period Exploitation Rates.
5. Agenda Item F.2.a, Attachment 5: An evaluation of the effectiveness of the Cape Flattery Control Zone closure at reducing non-treaty troll fishery impacts on Puget Sound Chinook.
6. Agenda Item F.2.a, Attachment 6: Conservation Objective for Southern Oregon Coastal Chinook.
7. Agenda Item F.2.a, Attachment 7: Comparing Income Impact Estimates from IOPAC and FEAM (Salmon Review) Models.
8. Agenda Item F.2.b, Supplemental SSC Report.

Agenda Order:

- a. Agenda Item Overview Mike Burner
- b. Reports and Comments of Advisory Bodies and Management Entities
- c. Public Comment
- d. **Council Action:** Adopt Final Methodology Changes and Conservation Objectives

PFMC
10/21/14