

27 | Harvest Strategy in development

Pacific Saury



Management Authority:

North Pacific Fisheries Commission

Expected Adoption Year:

2023

Management Objectives:

Initial Options:

- The annual probability that the stock drops below B_{lim} should not exceed "X" probability; or the annual probability that the fishing mortality exceeds F_{lim} should not exceed "X" probability
- Catch is high and stable as much as possible
- Maximum interannual variation of TAC over yy period should be less than xx%.

Reference Points:

Initial biomass target and limit reference points will be based on either B_{MSY} or carrying capacity (K), and will include multipliers yet to be defined (e.g., $X \cdot B_{MSY}$ and $Y \cdot K$). Fishing mortality target and limit reference points will be based on F_{MSY} (e.g., $Z \cdot F_{MSY}$).

Candidate Harvest Strategies:

Evaluating empirical or model-based harvest control rules that reduce the target harvest rate and total allowable catch when biomass falls below its target level. Currently, only a harvest control rule is being developed, as opposed to a full harvest strategy.

Progress Update & Workplan:

Plan is to use the current interim stock assessment model to evaluate a short-term harvest control rule, then move on to a full MSE process to evaluate a comprehensive management procedure.

Link to relevant policy document or update:

[1st Meeting of the Joint SC-TCC-COM Small Working Group on Management Strategy Evaluation for Pacific Saury \(SWG MSE PS\) Report \(https://www.npfc.int/sites/default/files/2022-04/SWG%20MSE%20PS01%20Report.pdf\)](https://www.npfc.int/sites/default/files/2022-04/SWG%20MSE%20PS01%20Report.pdf)