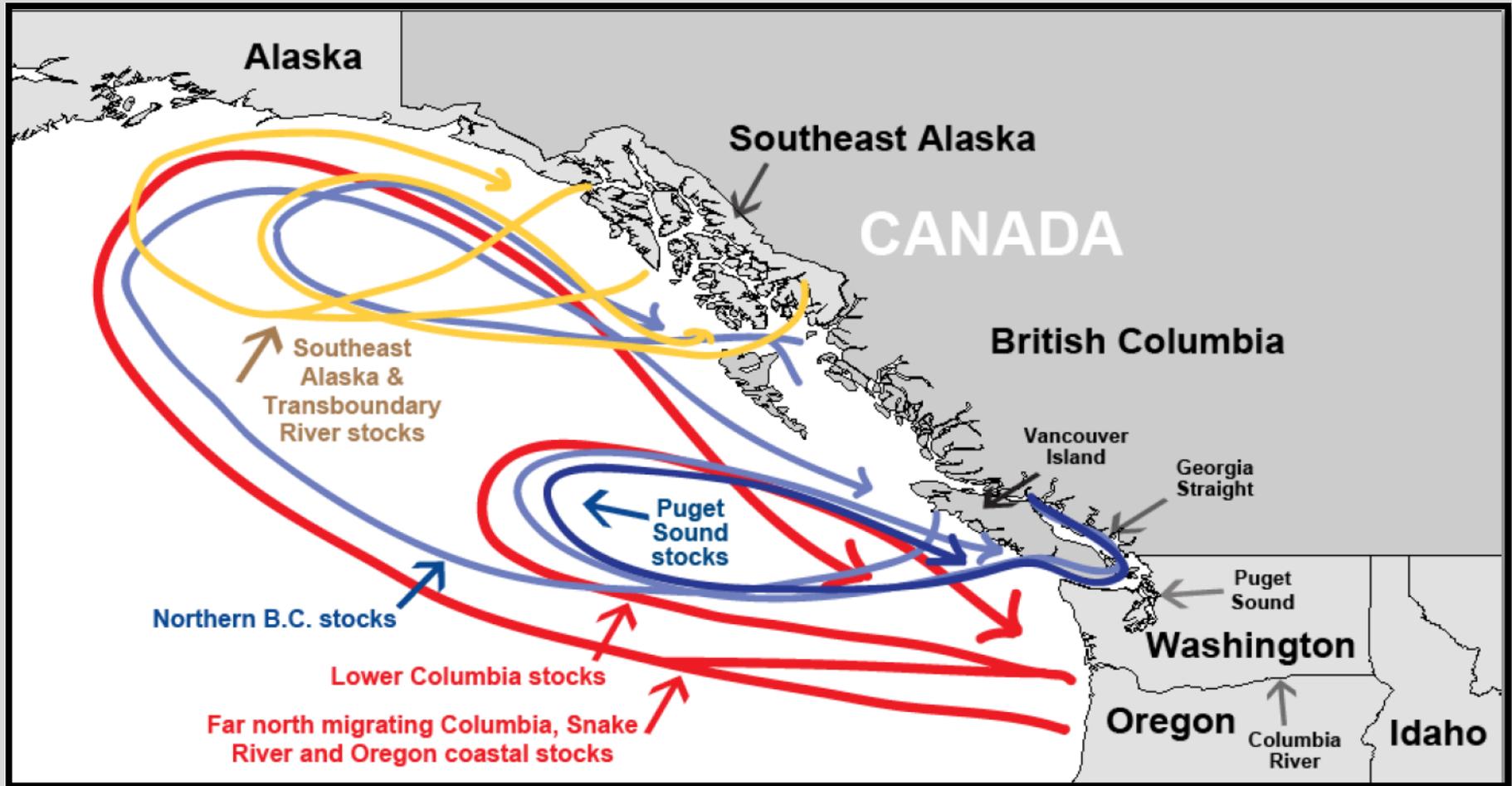# Pacific Salmon Treaty Chinook Overview

December 2023

RC #3, Tab #10

Why Do We Have a Treaty?

Chp 3: Alaska Obligations

1. Manage to preseason catch limit

2. Manage to achieve escapement goals for 6 SEAK and TBR stocks

3. Manage incidental mortality to not exceed 59,400

4. Commitment to discuss significant management changes that may alter the stock or age composition or incidental mortality of the catch

Accountability Provisions

1. If pre-season catch limit exceeded, payback any overages the following year. [Management error]

2. If incidental mortality limit exceeded, the PSC will determine if fishery adjustments are needed and recommend remedial action.

3. If post-season catch limit exceeded for 2 consecutive years, Alaska will need to provide a proposal to the PSC on actions to minimize variance between the pre-season and post-season catch limits. [Model error]

4. Conduct up to two reviews of the CPUE-based approach to decide whether to continue to use this method

SEAK Catch Limits

- The SEAK all-gear catch limit is determined annually by the Pacific Salmon Commission consistent with the Treaty.

- ADF&G allocates catch consistent with Board of Fisheries approved management plans.

SEAK Catch Limits - History

- 1999-2018 PSC Chinook Model abundance index (Table 1)

- 2019-2022 Early winter CPUE and 7 tier levels (Table 2)

  - 2020-2021 CPUE model is over limit for 2 consecutive years

  - CPUE Model discontinued

- 2023 Multivariate Model combining CPUE and PSC Chinook models and 17-tier approach

  - Commission agrees for 2023 only

- 2024 Methods for setting catch limits subject to change

ADF&G Proposal #257 Goals

"

- Align the SEAK King Salmon Management Plan with recent Treaty updates

- Make the KSMP more robust to future changes to the Treaty

- Simplify KMSP language

- Remain consistent with RC 178 as agreed to by the Board in March 2022 (allocatively neutral)

2019 PST Catch Limits

Table 2. Catch limits for the SEAK AABM fishery & the CPUE-based tiers

CPUE-based Tier	AI-based Tier	Catch Limit
Less than 2.0	Less than 0.895	Commission Determination
2.0 to less than 2.6	Between 0.895 and 1.03	111,833
2.6 to less than 3.8	Between 1.035 and 1.24	140,323
3.8 to less than 6.0	Between 1.245 and 1.55	205,165
6.0 to less than 8.7	Between 1.555 and 1.87	266,585
8.7 to less than 20.5	Between 1.875 and 2.28	334,465
20.5 and greater	Greater than 2.28	372,921

** Foundation of RC 178 as agreed to by the Board, March 2022

2019 PST Catch Ranges

- Based on formulae in the Treaty, the Abundance Index ranges are converted to catch-based ranges

CPUE-based Tier	AI-based Tier	Catch-based Tier	Catch Limit
Less than 2.0	Less than 0.895	Less than 105,500	Commission Determination
2.0 to less than 2.6	Between 0.895 and 1.03	Between 105,500 and 121,379	111,833
2.6 to less than 3.8	Between 1.035 and 1.24	Between 121,380 and 185,899	140,323
3.8 to less than 6.0	Between 1.245 and 1.55	Between 185,900 and 231,059	205,165
6.0 to less than 8.7	Between 1.555 and 1.87	Between 231,060 and 299,679	266,585
8.7 to less than 20.5	Between 1.875 and 2.28	Between 299,680 and 372,921	334,465
20.5 and greater	Greater than 2.28	Greater than 372,921	372,921

2019 PST Sport Catch Ranges

- Applying SEAK King Salmon allocation plan formulae yields sport fishery catch-based tiers

CPUE-based Tier	AI-based Tier	Catch-based Tier	Sport Catch-based Tier
Less than 2.0	Less than 0.895	Less than 105,500	Less than 19,381
2.0 to less than 2.6	Between 0.895 and 1.03	Between 105,500 and 121,379	Between 19,381 and 22,327
2.6 to less than 3.8	Between 1.035 and 1.24	Between 121,380 and 185,899	Between 22,328 and 34,302
3.8 to less than 6.0	Between 1.245 and 1.55	Between 185,900 and 231,059	Between 34,303 and 42,684
6.0 to less than 8.7	Between 1.555 and 1.87	Between 231,060 and 299,679	Between 42,685 and 55,420
8.7 to less than 20.5	Between 1.875 and 2.28	Between 299,680 and 372,921	Between 55,421 and 69,014
20.5 and greater	Greater than 2.28	Greater than 372,921	Greater than 69,014

Questions?