

Oral Report to the Alaska Board of Fisheries 2020

Review of Salmon Escapement Goals in the Kodiak Management Area



by
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and
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Oral Report: RC 3; Tab 1
Written Report: provided as additional report

Presentation Objectives

- **Policies that direct the escapement goal review**
- **Describe team formation and approach**
- **Identify goals and methods**
- **Present recommendations**



Policy and Escapement Goal Definitions

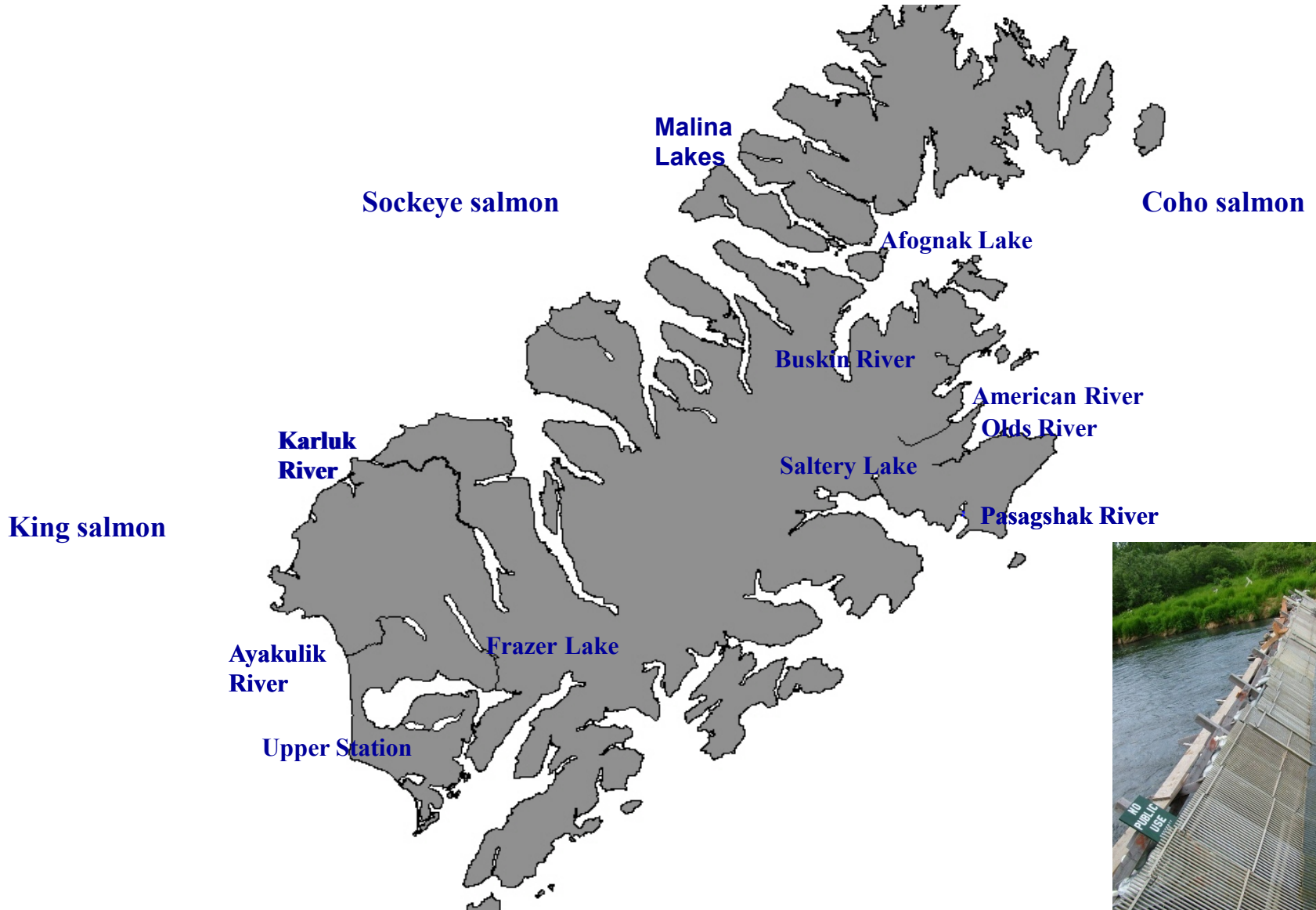
This review was based on:

- *Policy for the Management of Sustainable Salmon Fisheries (SSFP; 5 AAC 39.222)*
- *Policy for Statewide Salmon Escapement Goals (EGP; 5 AAC 39.223)*
- **Two important terms defined in the SSFP are:**
 - Biological Escapement Goal (BEG)**
 - Sustainable Escapement Goal (SEG)**

Approach and Process for Review Team

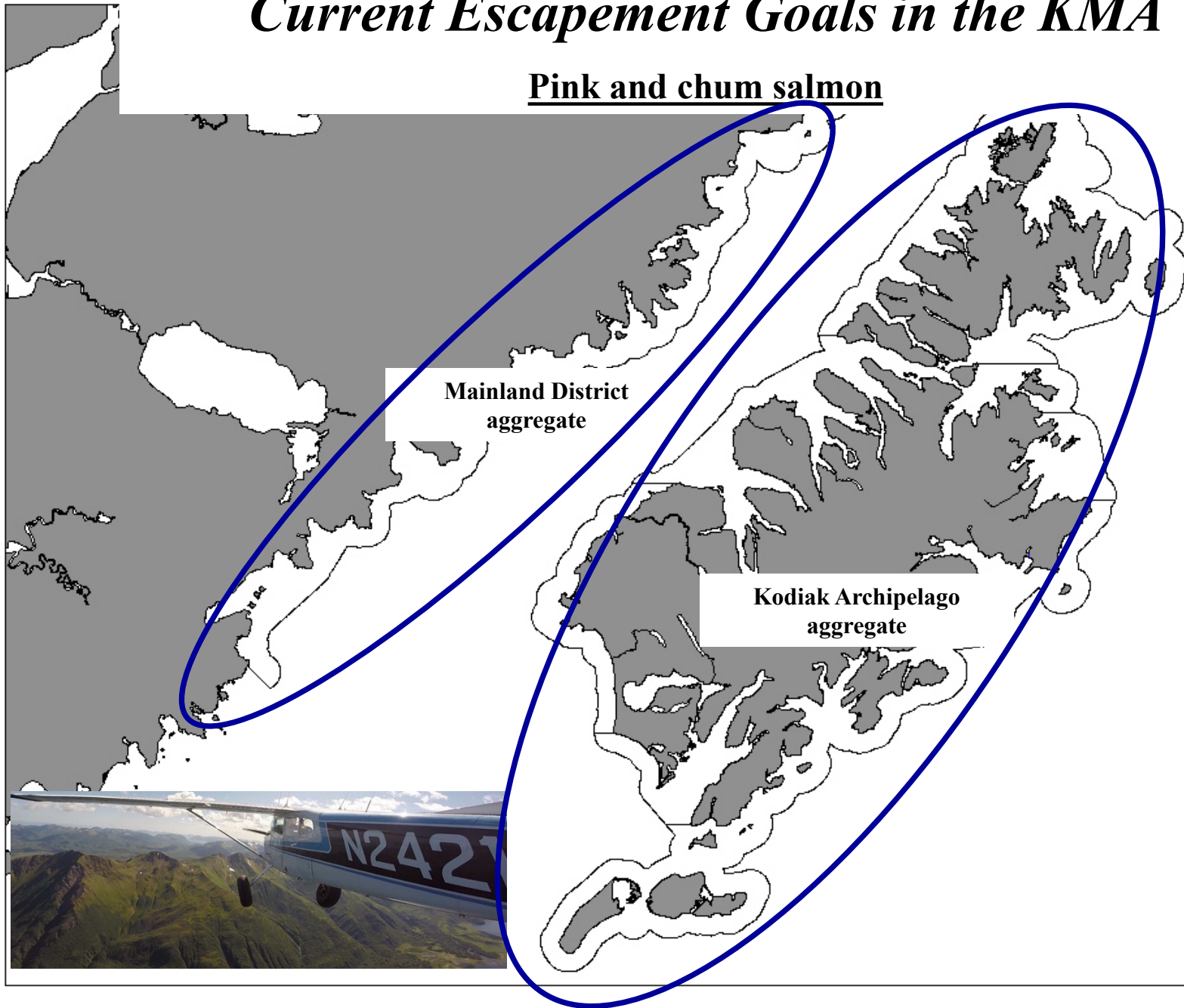
- **Three-year interval**
- **Review available data for stocks**
- **Determine appropriate goal type and methods**
- **Perform analysis, assess goal range, review by team**
- **Develop draft recommendations for directors of divisions of Commercial Fisheries and Sport Fish**

Current Escapement Goals in the KMA



Current Escapement Goals in the KMA

Pink and chum salmon



Team Recommendations

- **No change to 18 goals**
- **Change 4 goals**



Upper Station Late-Run Sockeye Salmon

Current - BEG: 120,000–265,000

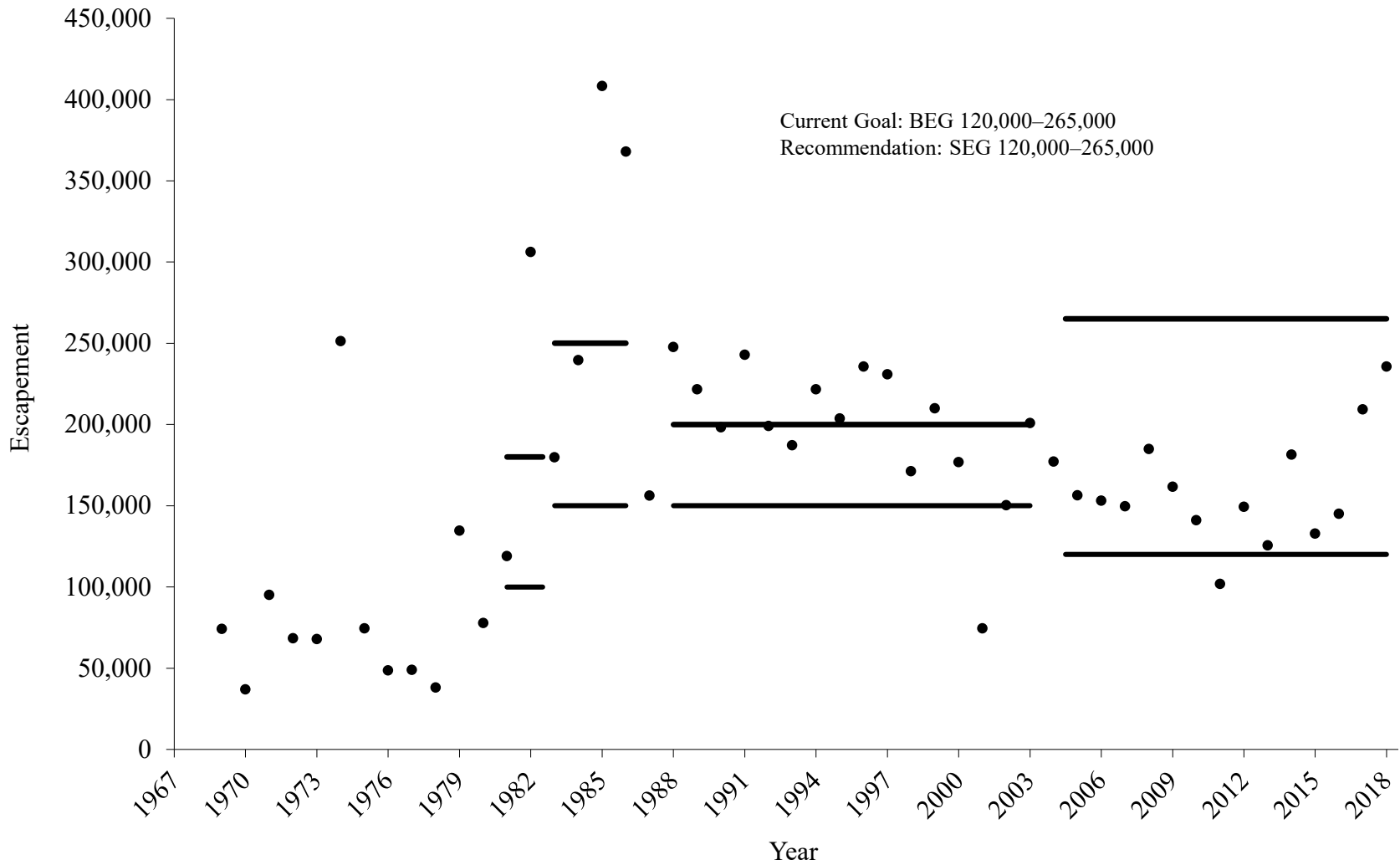


- Looked into more recent data 1996–2018
 - No significant Spawner Recruit Analyses
- Yield analysis, Environmental Models, Percentile Approach
- Inconsistency in model outcomes, but most corroborate current goal is reasonable
- Recommend revising to SEG to be clear about confidence of estimates of S_{MSY} .



Upper Station Late-Run Sockeye Salmon

Recommendation - SEG: 120,000–265,000



Afognak River Sockeye Salmon

Current - BEG: 20,000–50,000

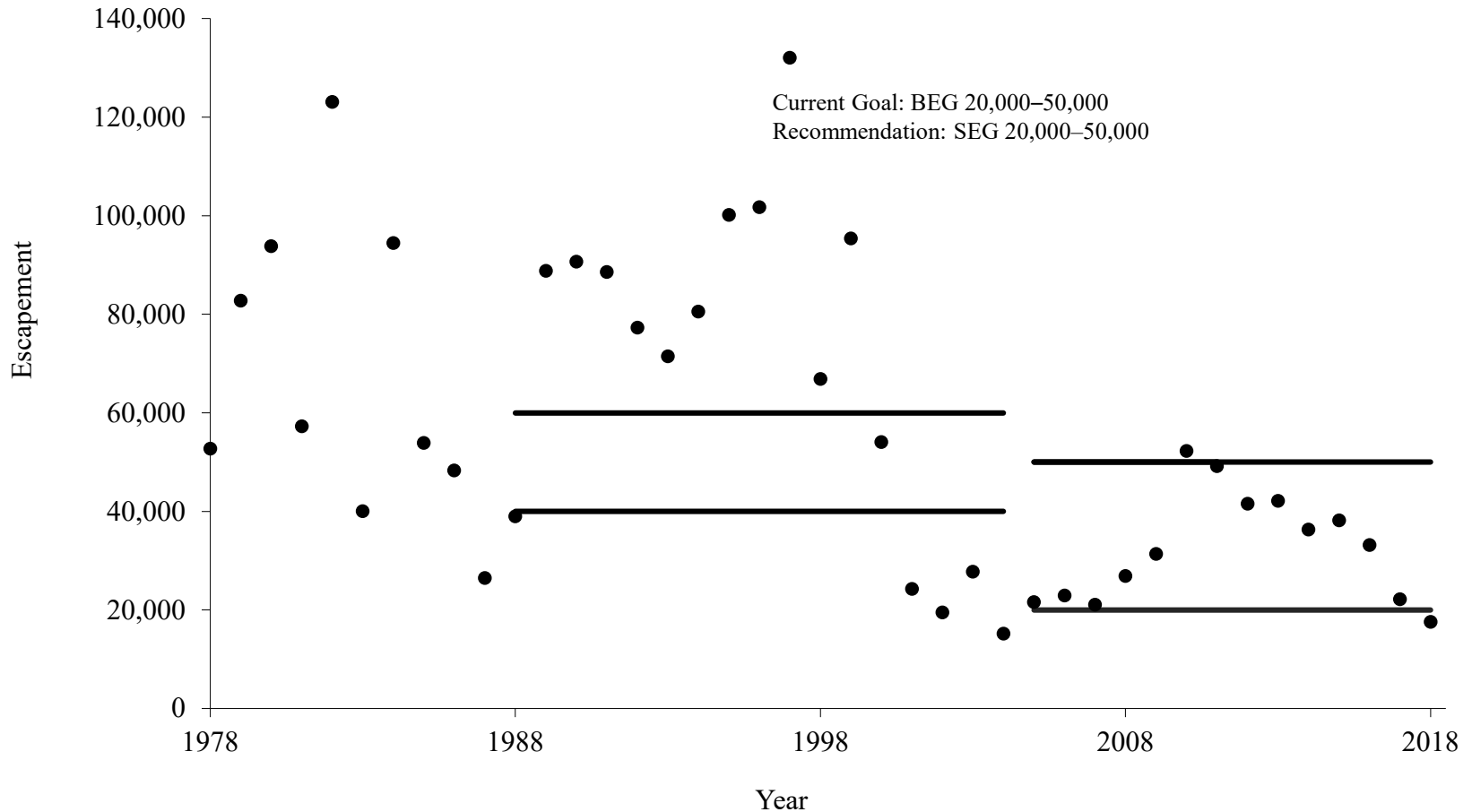


- Looked into more recent data 2000–2018
- Spawner Recruit Analysis, Yield analysis, Environmental Models, Percentile Approach
- Inconsistency in model outcomes, but most corroborate current goal is reasonable
 - Spawner Recruit Analysis indicated a decrease below measured escapement
- Recommend revising to SEG to be clear about confidence of estimates of S_{msy} .



Afognak River Sockeye Salmon

Recommendation - SEG: 20,000–50,000



Buskin River Coho Salmon

Current - BEG: 4,700–9,600

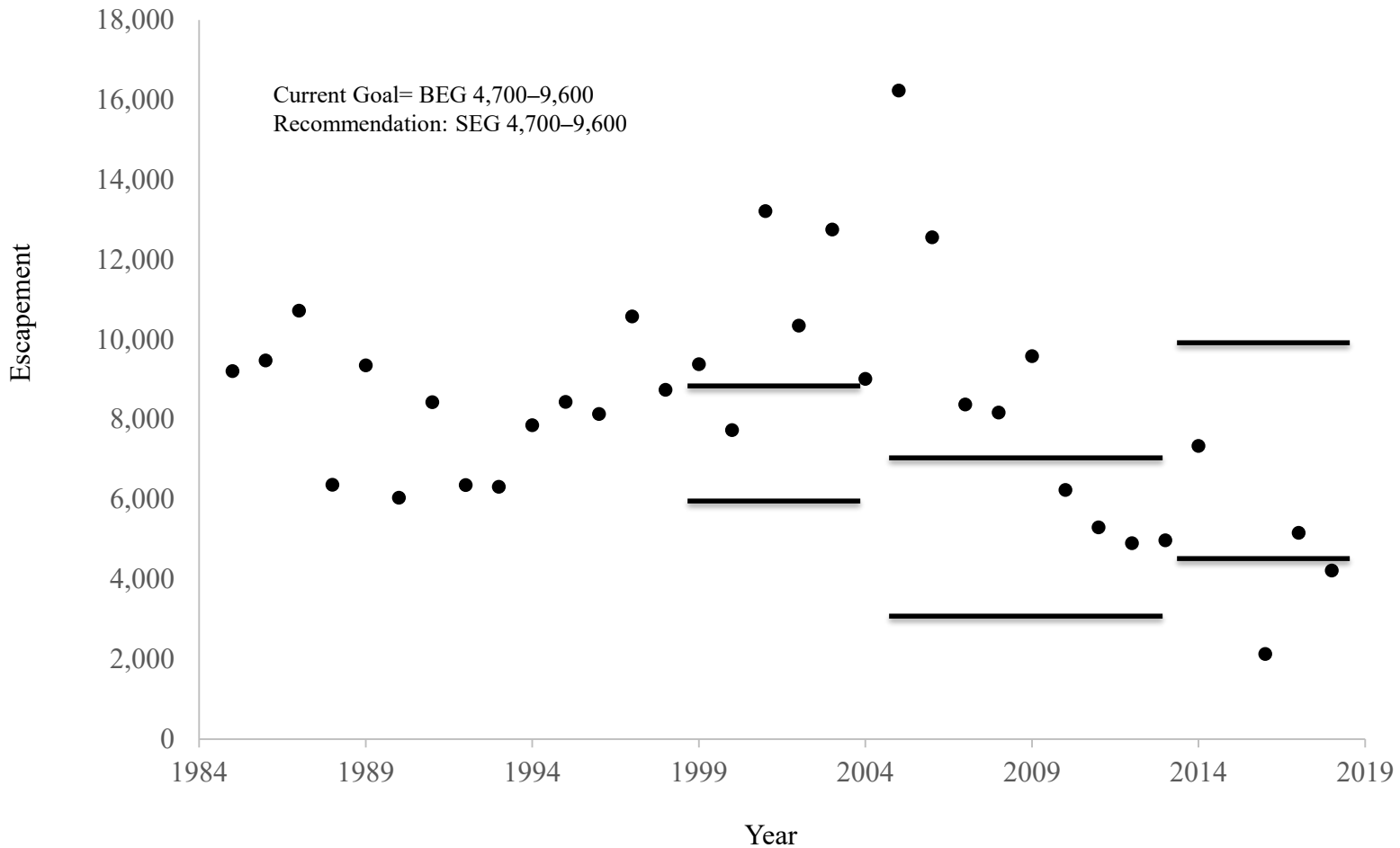


- High water events common in Buskin River.
- In-depth analysis of missed fish passage during high water.
- Recommend revising to SEG to due to uncertainty in passage during inoperable periods at high water.



Buskin River Coho Salmon

Recommendation - SEG: 4,700–9,600

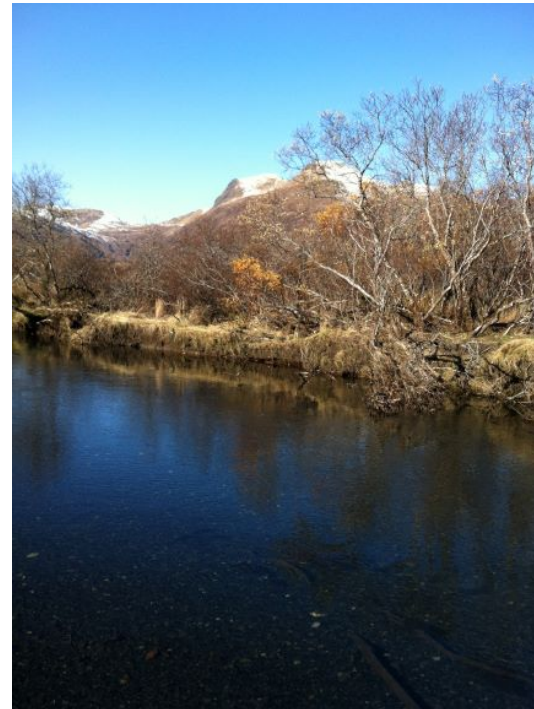


Olds River Coho Salmon

Current - Lower Bound SEG: 1,000

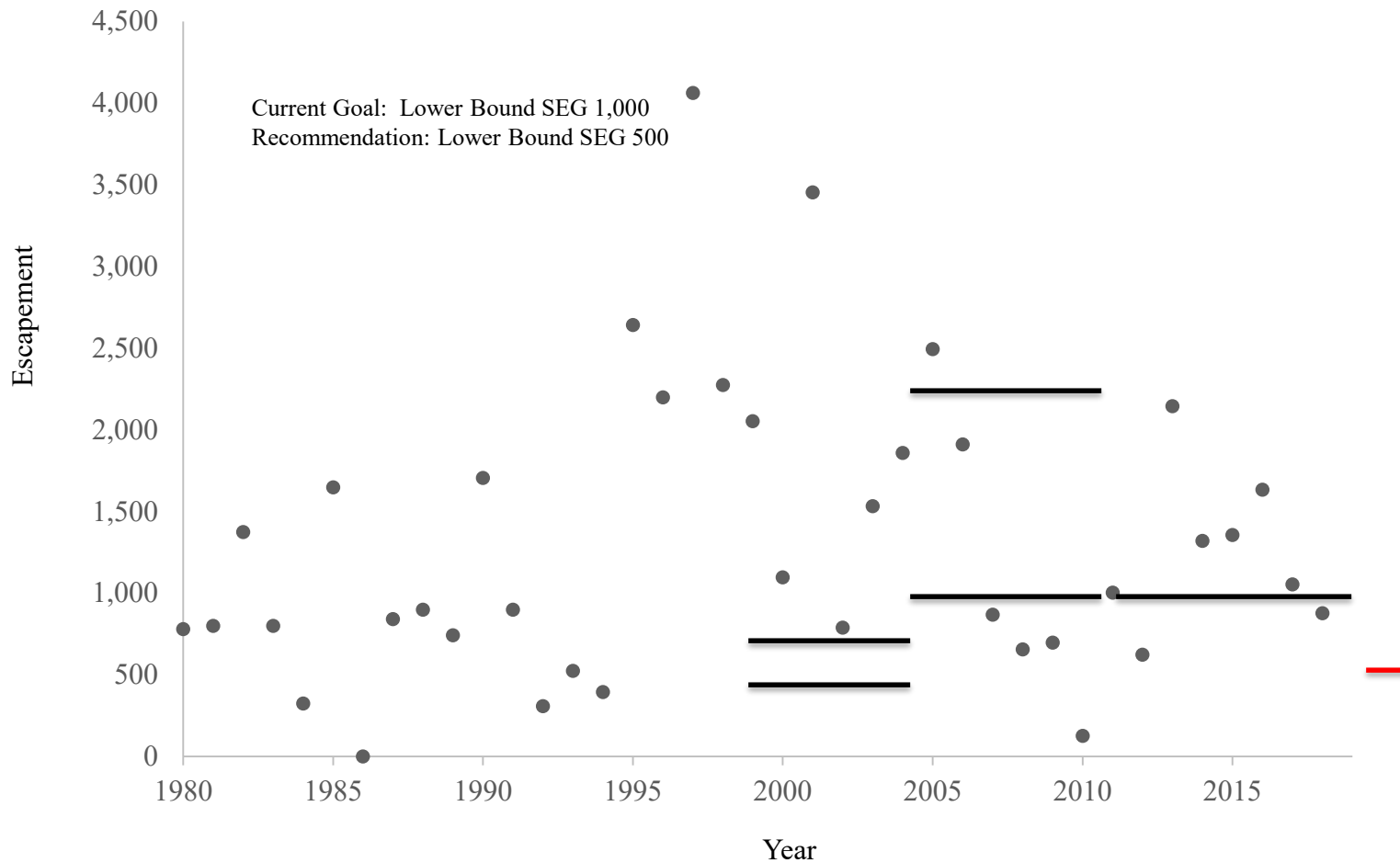


- Assessed via foot survey
- Updated since previous review using the percentile approach.
- Recommend revising lower bound SEG.



Olds River Coho Salmon

Recommendation - Lower Bound SEG: 500



Review Summary

- **King salmon: No Change**
- **Pink salmon: No Change**
- **Chum salmon: No Change**
- **Sockeye salmon:**
 - **Change Upper Station Late Run to an SEG with the same range**
 - **Change Afognak River to an SEG with the same range**
- **Coho salmon:**
 - **Change Buskin River to an SEG with the same range**
 - **Change Olds River to a LB SEG of 500 fish**

Thank You

Questions

