

Escapement Goal and Stock of Concern Memos to the Alaska Board of Fisheries 2020



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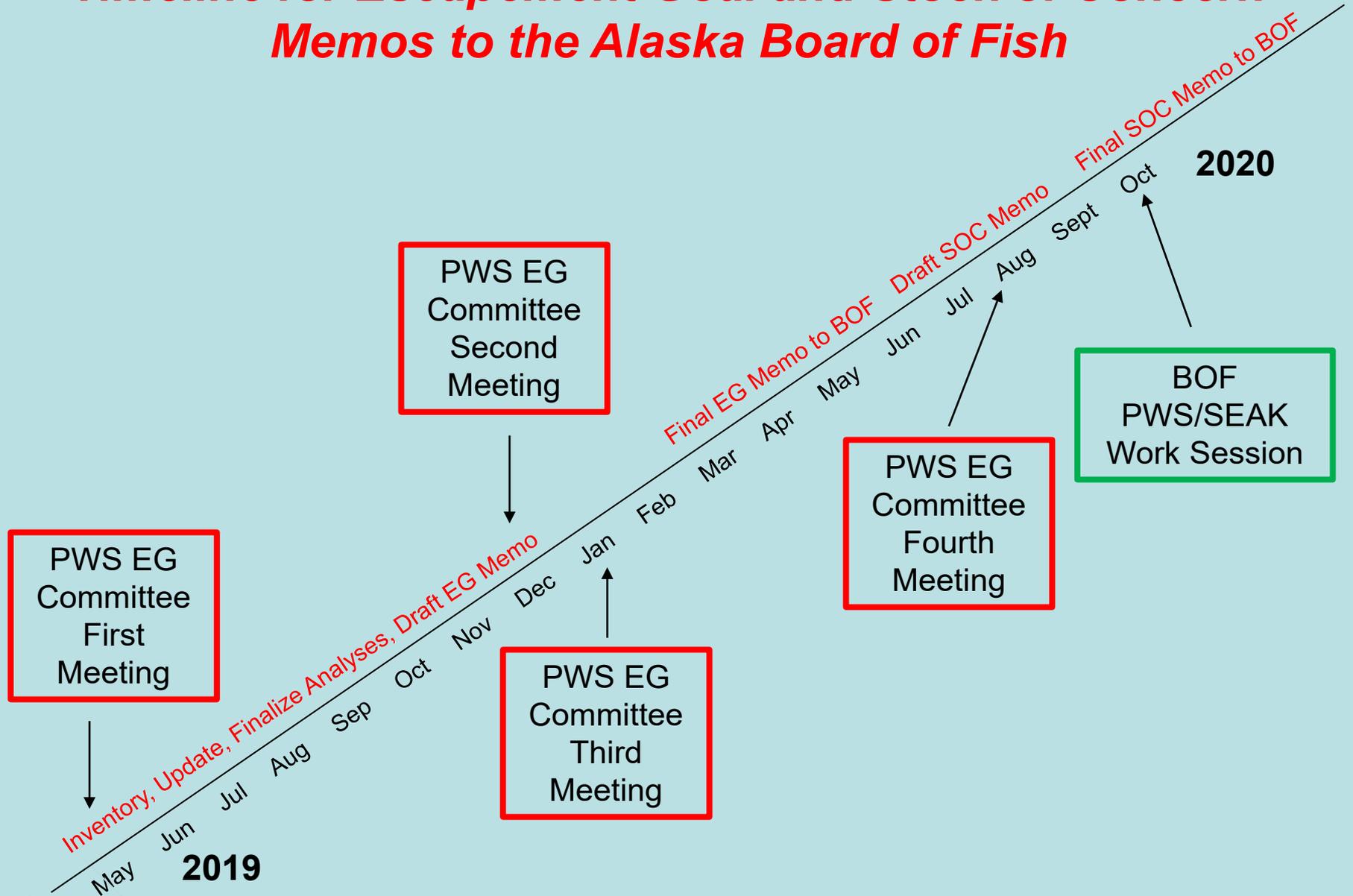
By

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DSF**

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Timeline for Escapement Goal and Stock of Concern Memos to the Alaska Board of Fish



Existing PWSMA Salmon Escapement Goals

King Salmon: 1 stock

Copper River

Chum Salmon: 5 stocks

Coghill, Eastern, Northern/Unakwik, Northwestern,
Southeastern districts

Coho Salmon: 2 stocks

Bering River, Copper River Delta

Pink Salmon: 16 stocks (even- and odd-year brood lines)

Coghill, Eastern, Eshamy, Montague, Northern/Unakwik,
Northwestern, Southeastern, Southwestern

Sockeye Salmon: 5 stocks

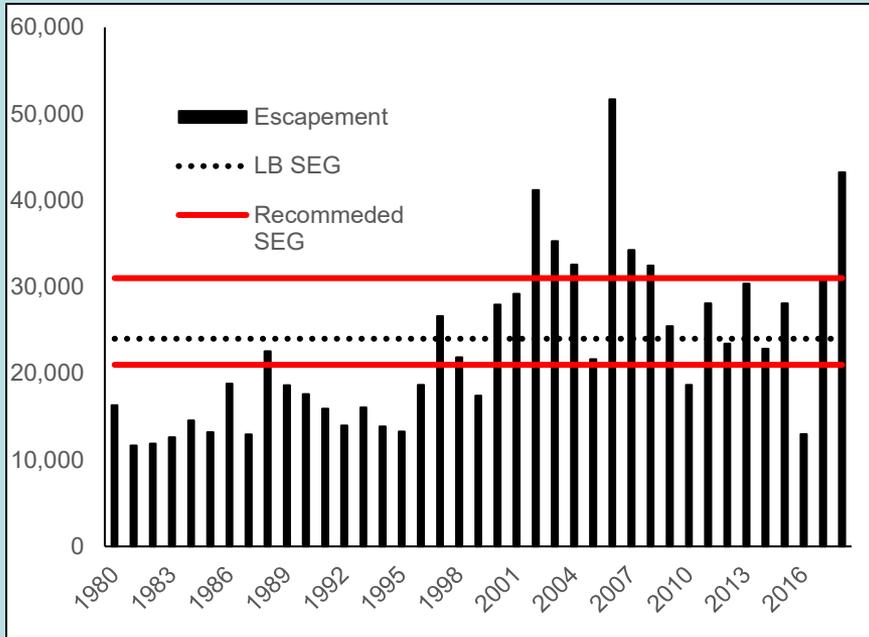
Bering and Upper Copper rivers, Coghill and Eshamy lakes,
and Copper River Delta

Copper River King Salmon – SEG Range

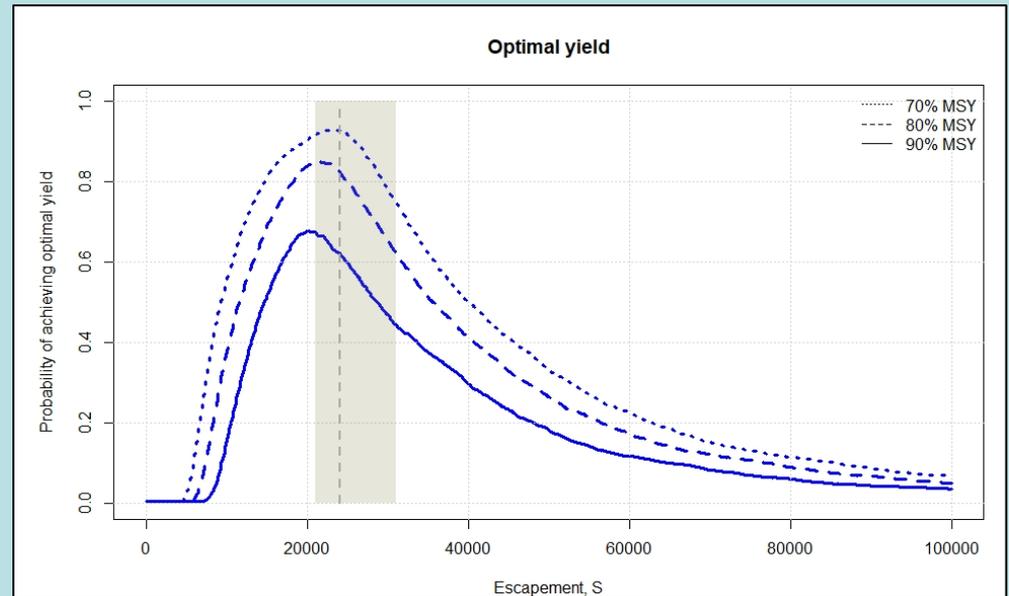
1. Current Lower Bound SEG: >24,000
2. Based on historical average of escapements (catchage model)
3. Recommended SEG Range (21,000-31,000) based on state-space model (2020)



Copper River King Salmon

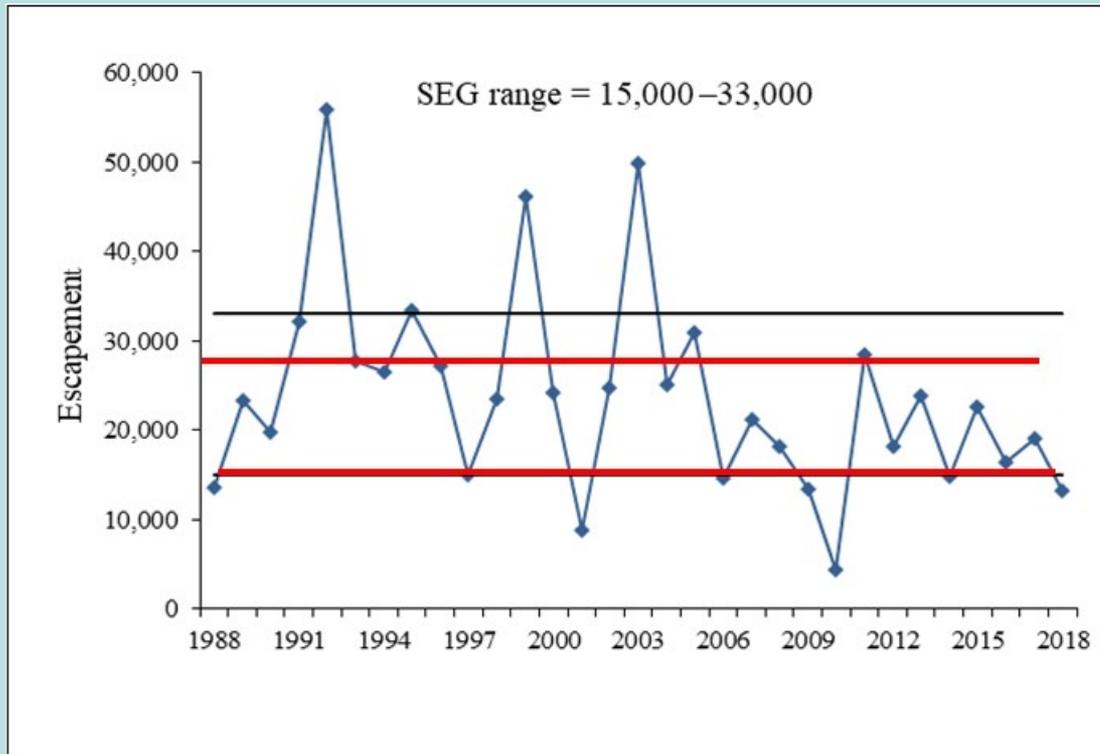
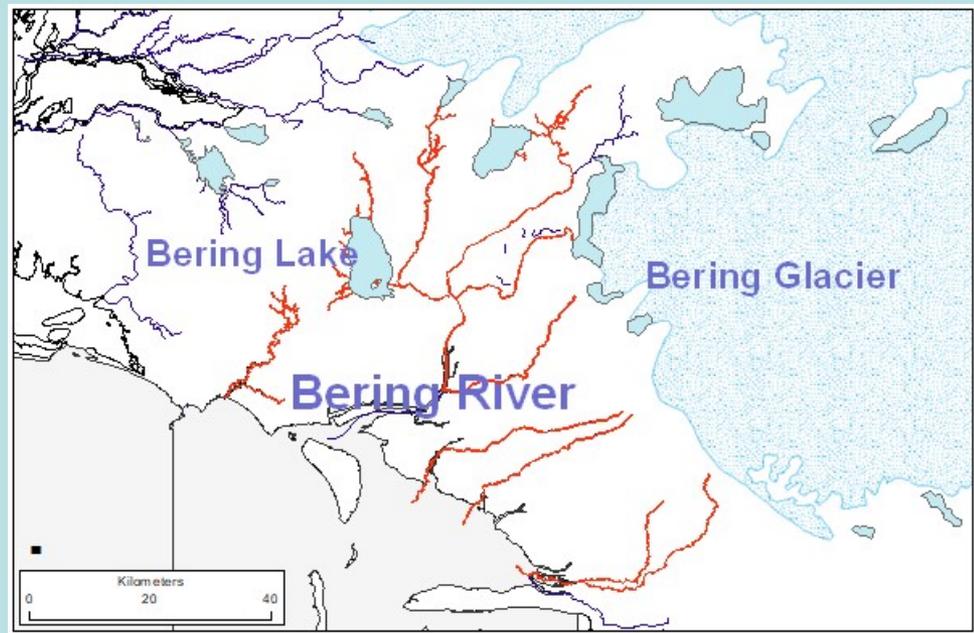


Current Full Model: 1980-2018
 $S_{MSY} = 22,844$ king salmon



Sockeye Salmon – SEG Range

- Bering River**
Current SEG: 15,000-33,000
Recommended SEG: 15,000-24,000

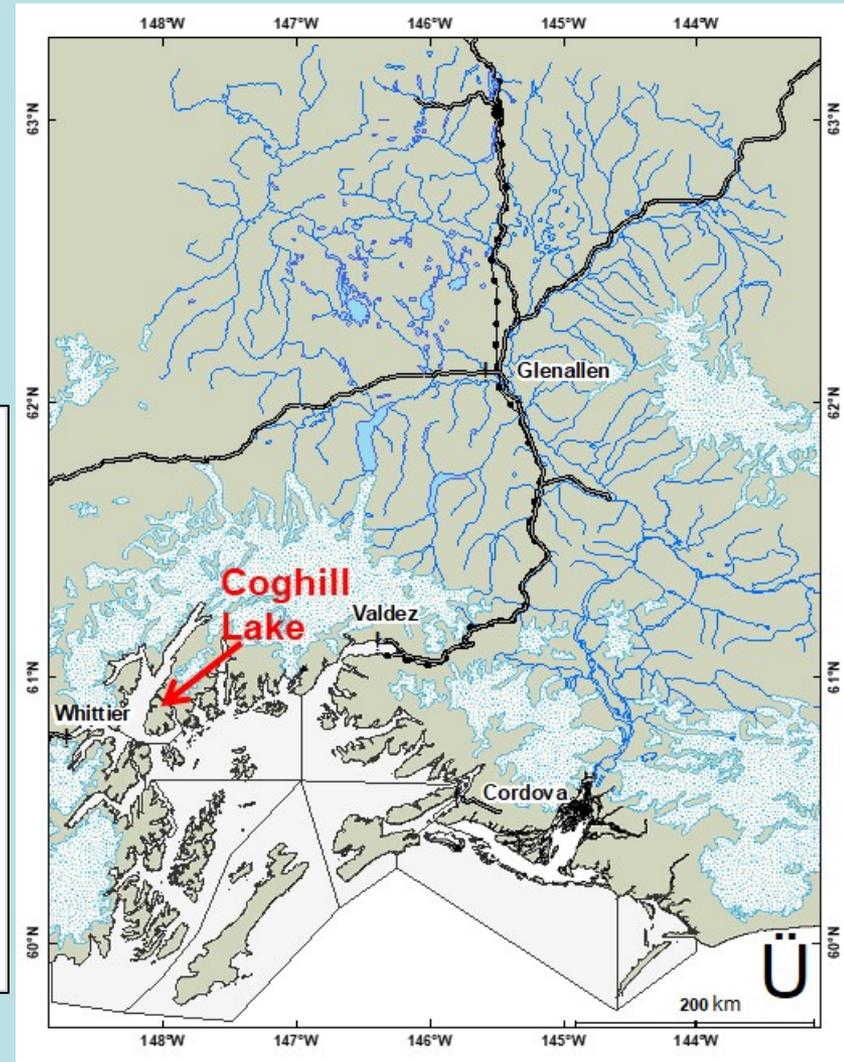
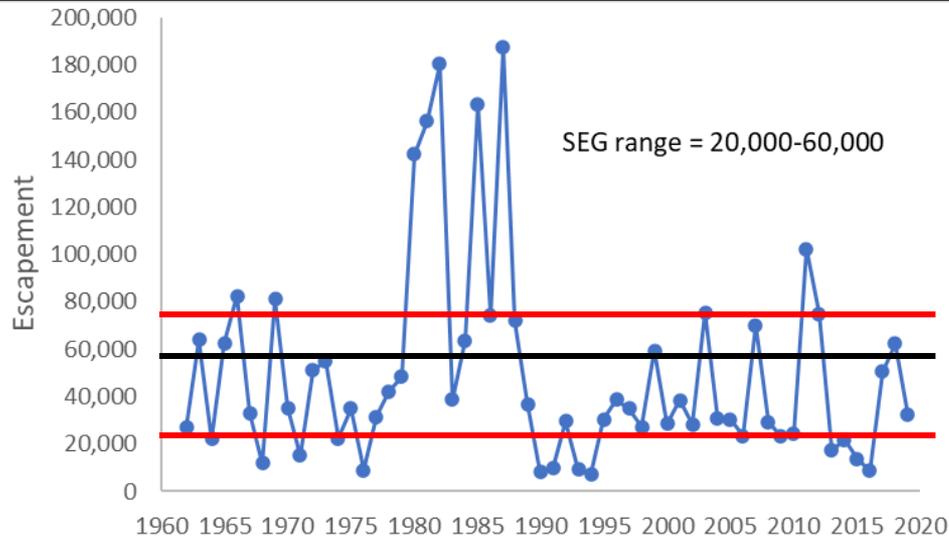


Sockeye Salmon – SEG Range

1. Coghill Lake

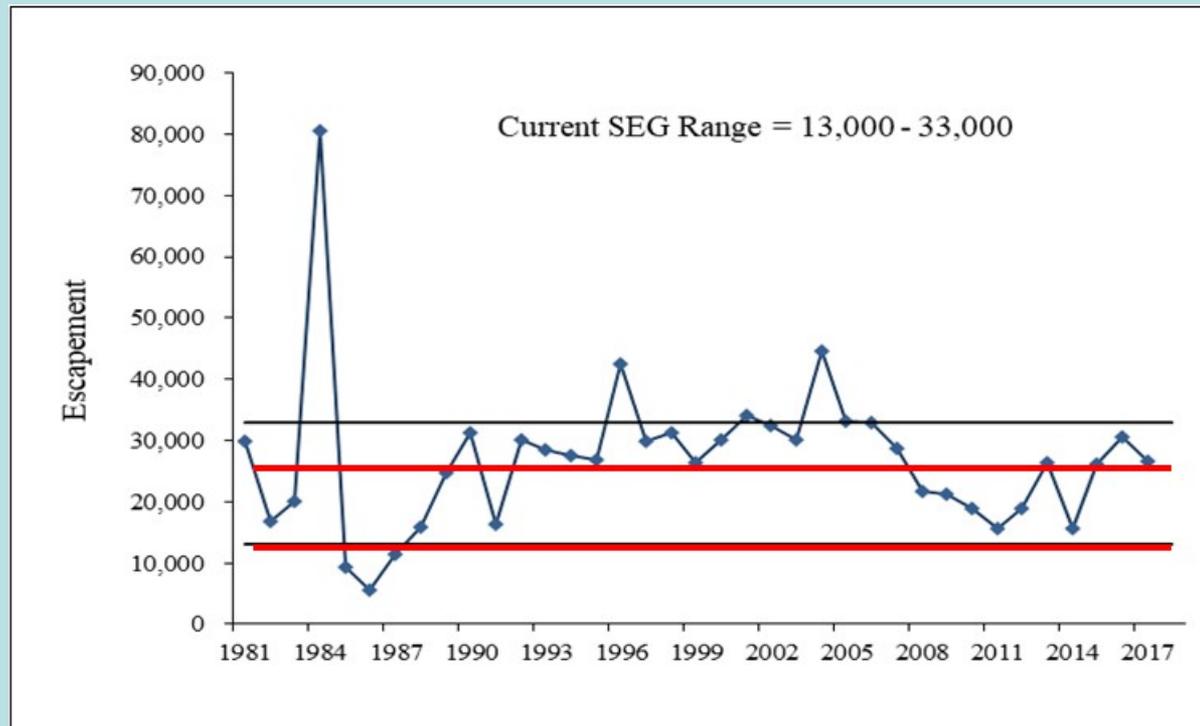
Current SEG: 20,000-60,000

Recommended SEG: 20,000-75,000



Coho Salmon – SEG Range

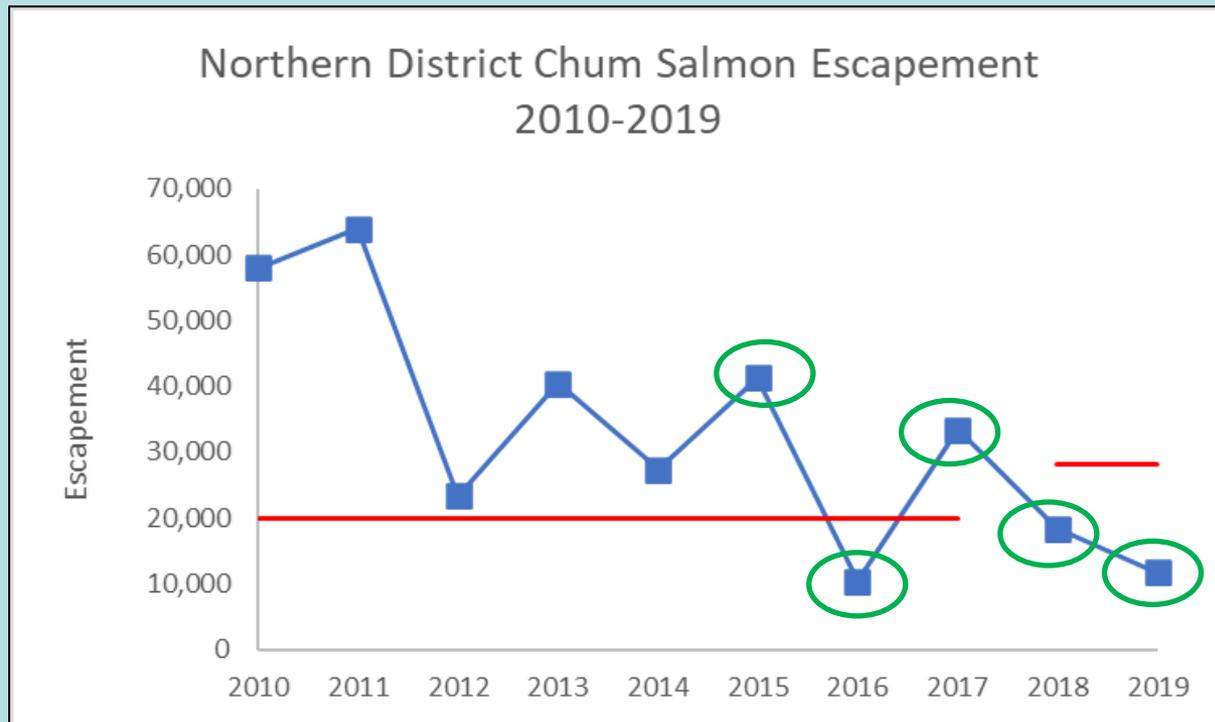
- Bering River**
Current SEG: 13,000-33,000
Recommended SEG: 13,000-25,000



PWS Stocks of Concern

Northern District Chum Salmon

- 1. Current Lower Bound
SEG: 28,000**
- 2. Considered because
goal not met in 3 of the
last 5 years**
- 3. Goal met 7 out of the
last 10 years**
- 4. Escapement met in
2015 and 2017**



PWS Stocks of Concern

PWS Stock of Concern Recommendation

- 1. No PWS stocks exhibit a chronic inability to achieve EG's**
- 2. Recommend no stocks of concern**

