Review of Salmon Escapement Goals in the Bristol Bay Management Area, 2021



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Oral Report: RC 3 Tab 4 Written Report: RC3 Tab 1

Presentation Objectives

- Introduce escapement goal policies
- Explain review process
- Summarize results and findings



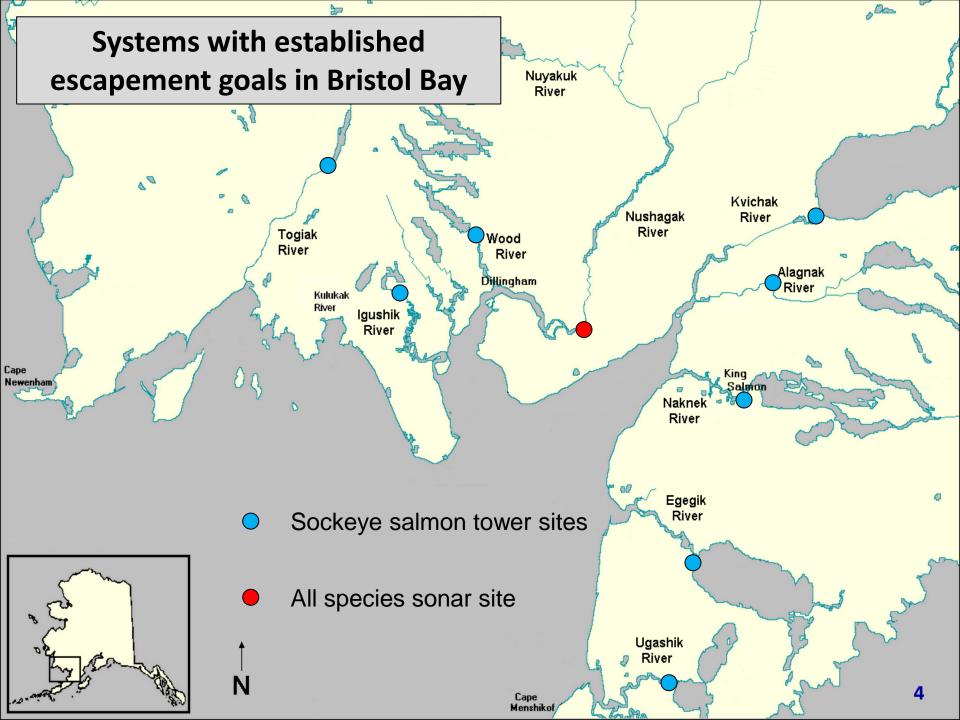


Escapement Goal Policies

- Policy for the Management of Sustainable Salmon Fisheries (SSFP; 5 AAC 39.222)
- Policy for Statewide Salmon
 Escapement Goals (5 AAC 39.223)
- Goals are adopted to ensure salmon stocks are conserved, managed, and developed using the sustained yield principle







Existing Escapement Goals

King salmon: 1 stock Nushagak River

Chum salmon: 1 stock Nushagak River

Coho salmon: 1 stock Nushagak River

Pink salmon (even years): 1 stock Nushagak River

Sockeye salmon: 9 stocks

Alagnak, Egegik, Igushik, Kvichak, Naknek, Nushagak, Togiak, Ugashik, and Wood rivers

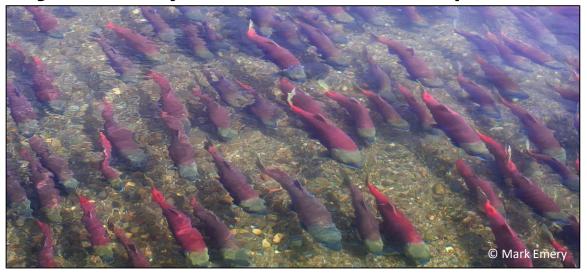


A reminder...

- Current board cycle out of sequence
- Analyses ran in 2020 in preparation for the 2021 meeting
- Analyses were not updated to reflect the added year due to COVID delay

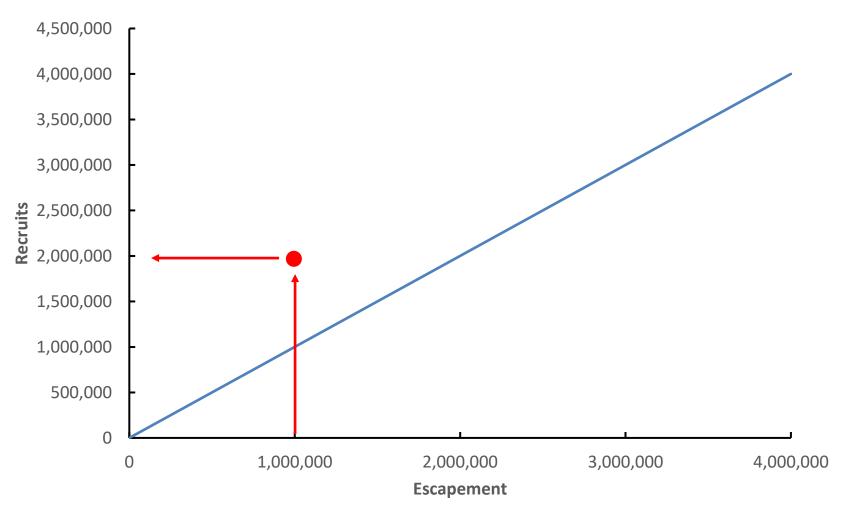


Review of sockeye salmon escapement goals



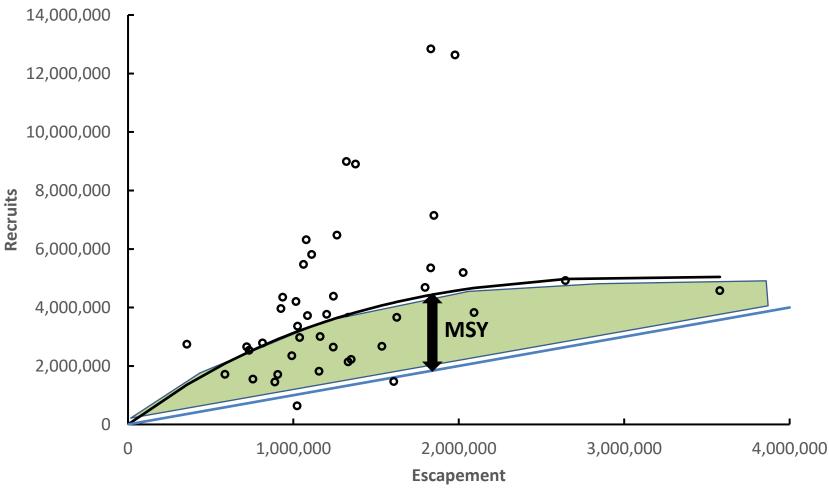
- Goals implemented in 2015 were developed from 2012 review process.
 - Biologic and economic implications of raising goals
- No changes in 2018 except Alagnak River
- Updated the time series for completed returns through 2020 for this review

Ricker stock-recruit



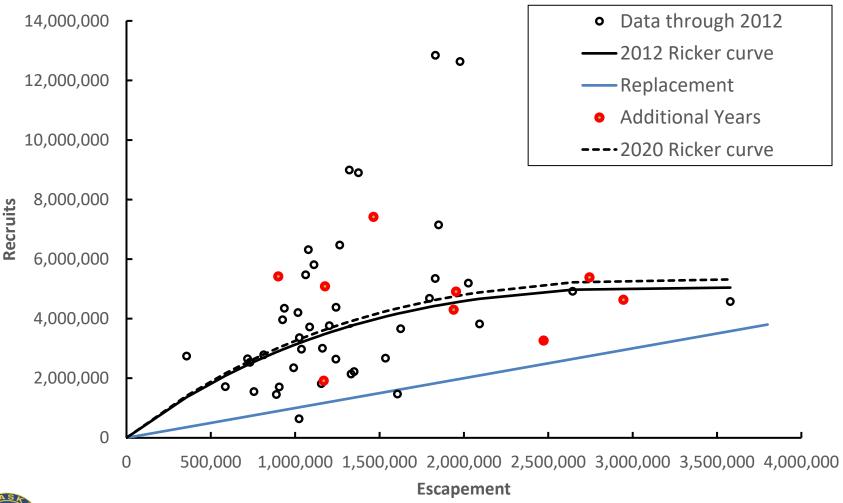


Naknek River sockeye salmon stock-recruit (an example)



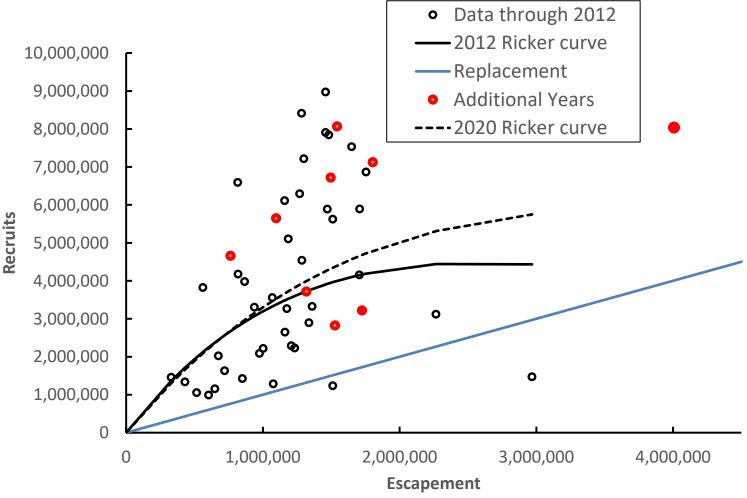


Naknek River sockeye salmon stock-recruit (an example)



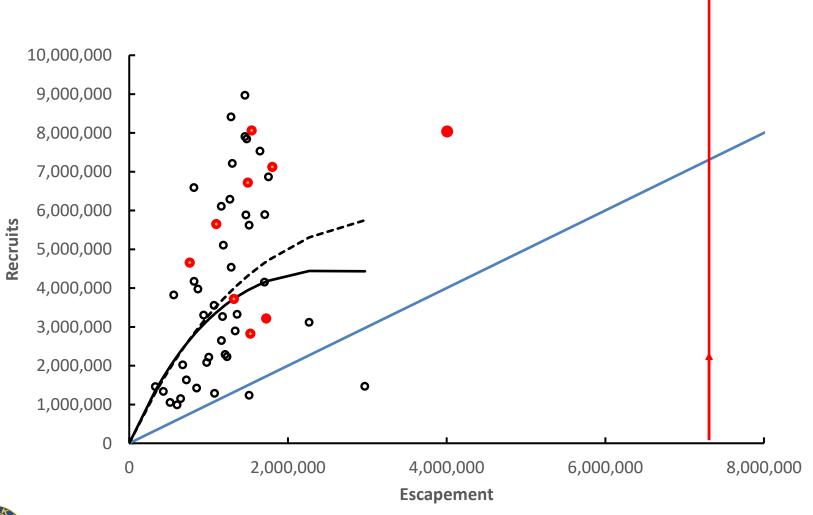


Wood River sockeye salmon stock-recruit





Wood River sockeye salmon stock-recruit





Sockeye salmon recommendations

- All sockeye goals reviewed by committee besides Alagnak River
- No changes at this time
- More information from large returns for next board cycle





Review of Nushagak River king salmon



- Current SEG is 55,000 120,000
- Updated spawner-recruit analysis to include most recent completed brood years
- Corrections made to errors from previous review
- No changes at this time



Review of other escapement goals

 Full stock recruit analyses for Nushagak River pink, chum, and coho salmon stocks were not completed





Summary

- All salmon goals reviewed
- All sockeye salmon goals and Nushagak king salmon analyzed (except Alagnak)
- Pink, chum, and coho not analyzed
- No changes at this time



Acknowledgements

- Hamachan Hamazaki
- Escapement Goal Review Committee



