

Southeast Alaska King Salmon Stock Status and Management

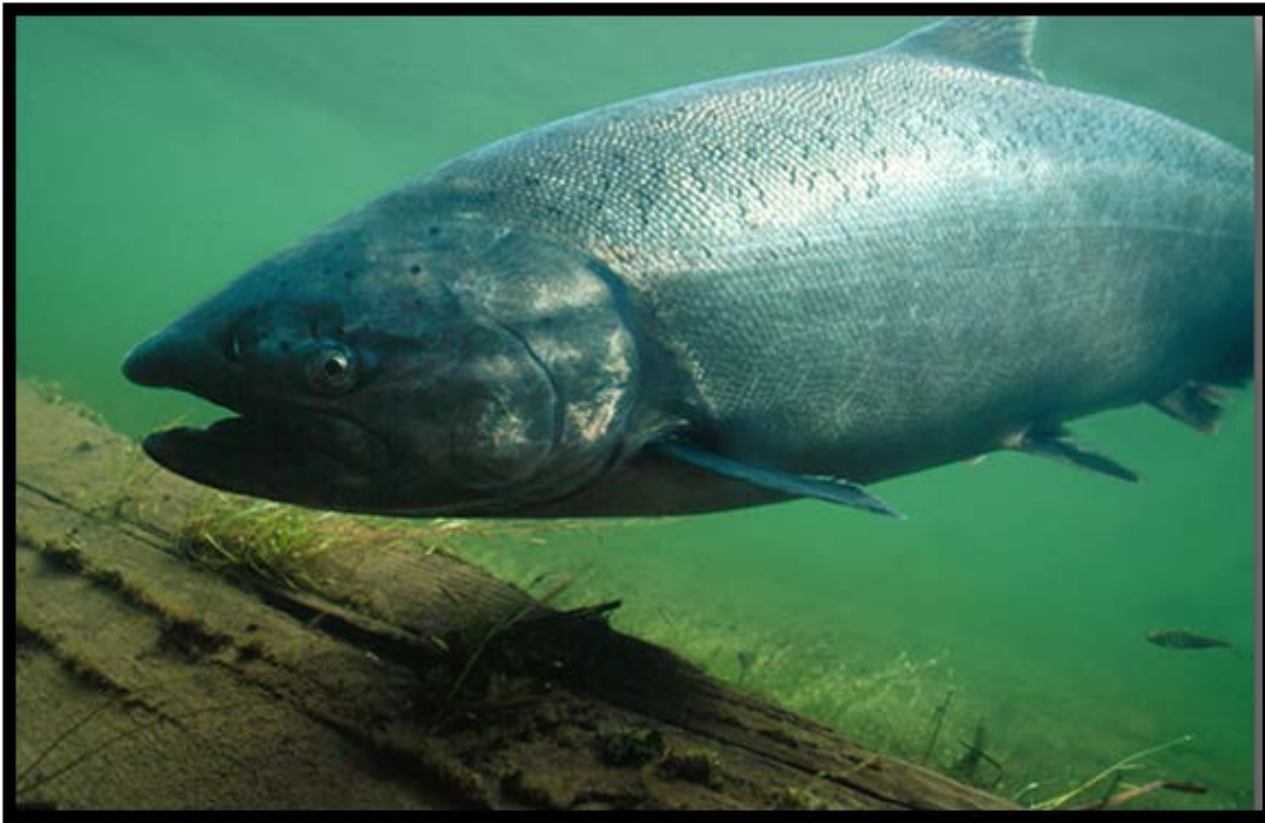
**Alaska Board of Fisheries
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Anchorage**

**Jeff Nichols and Bob Chadwick,
Division of Sport Fish**



Presentation Outline

- Current escapement goals & stock status
- Harvest rate trends
- Stocks of Concern update & management review



Southeast Alaska King Salmon Indicator Stocks

Escapement Goals:

2018 King Salmon Escapement Goals

System	Goal Type	Lower Bound	Upper Bound
Situk River	BEG	450	1,050
Alsek River	BEG	3,500	5,300
Chilkat River	BEG	1,750	3,500
Taku River	BEG	19,000	36,000
King Salmon River	BEG	120	240
Stikine River	BEG	14,000	28,000
Andrew Creek	BEG	650	1,500
Unuk River	BEG	1,800	3,800
Chickamin River	BEG	2,150	4,300
Blossom River	BEG	500	1,400
Keta River	BEG	550	1,300



Southeast Alaska King Salmon Indicator Stocks

Full Indicator Stocks:

- CWT juveniles—
 - Estimates of total smolt production
 - Estimates of marine (smolt-adult) survival
 - Estimates of freshwater (overwinter) survival
- Harvest Sampling—
 - Estimates of harvest by gear, area, time
- Adult Escapement—
 - Estimates of escapement by age, sex, and length



King Salmon – Stock Status

• Stock Status

- Continued pattern of low escapements across the region beginning in 2007 and continuing through 2018
- Long-term: generally good
- Short-term: very poor

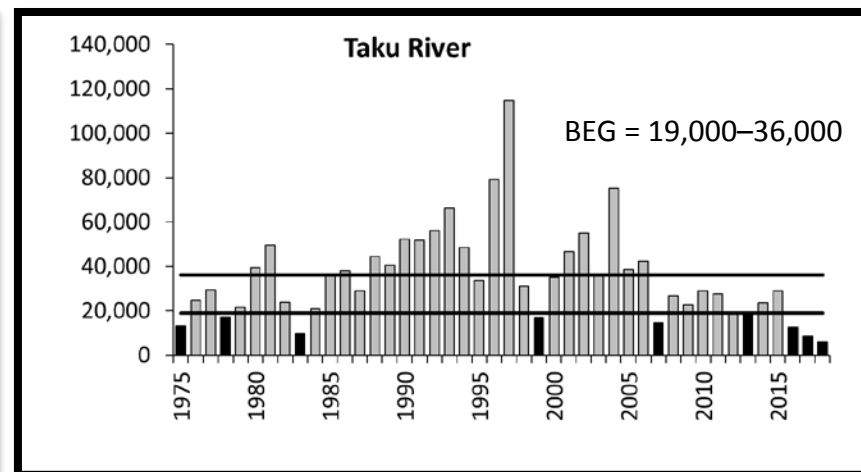
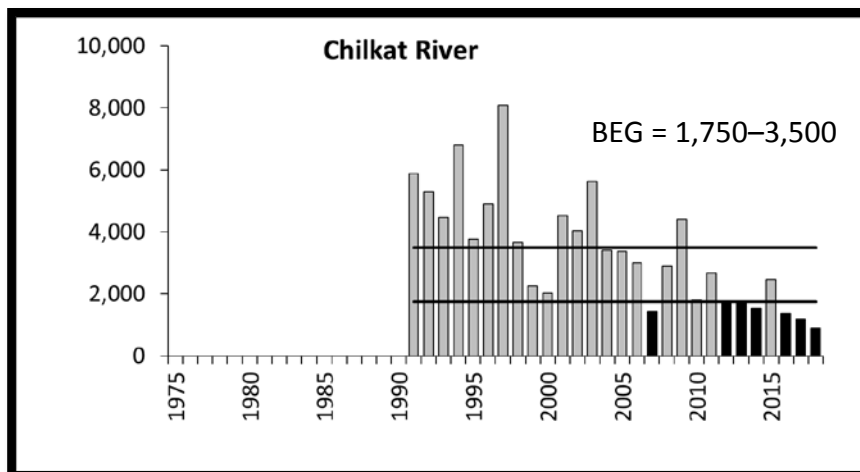
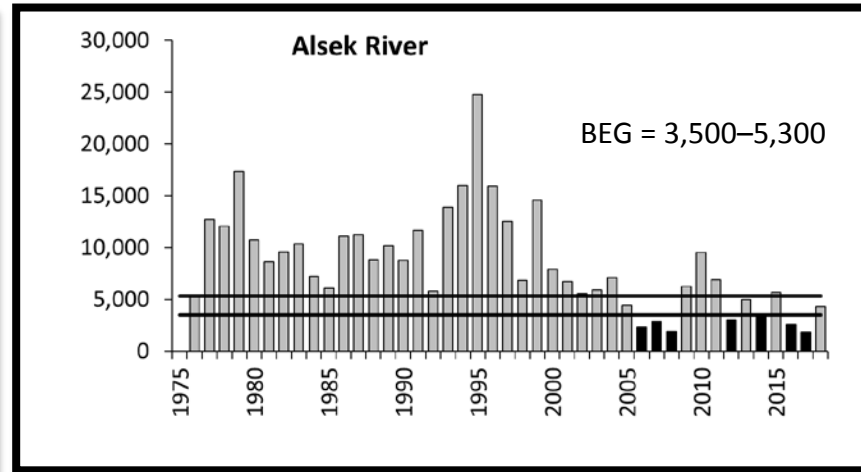
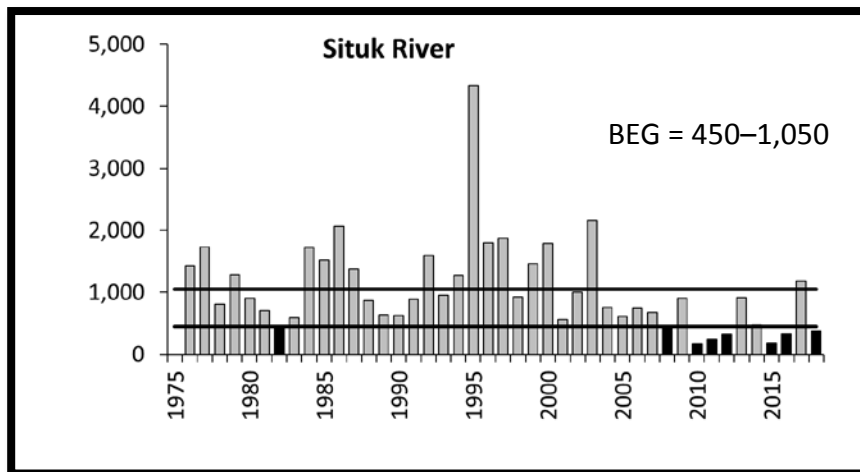
• Stocks of Concern

- Chilkat River, King Salmon River, and Unuk River

2018 Escapement (<i>preliminary</i>)			
System	Escapement	Lower Bound	Upper Bound
Situk River	375	450	1,050
Alsek River	4,300	3,500	5,300
Chilkat River	900	1,750	3,500
Taku River	6,000	19,000	36,000
King Salmon River	30	120	240
Stikine River	7,000	14,000	28,000
Andrew Creek	482	650	1,500
Unuk River	1,942	1,800	3,800
Chickamin River	2,052	2,150	4,300
Blossom River	1,087	500	1,400
Keta River	1,662	550	1,300

King Salmon Escapement Trends

Escapement



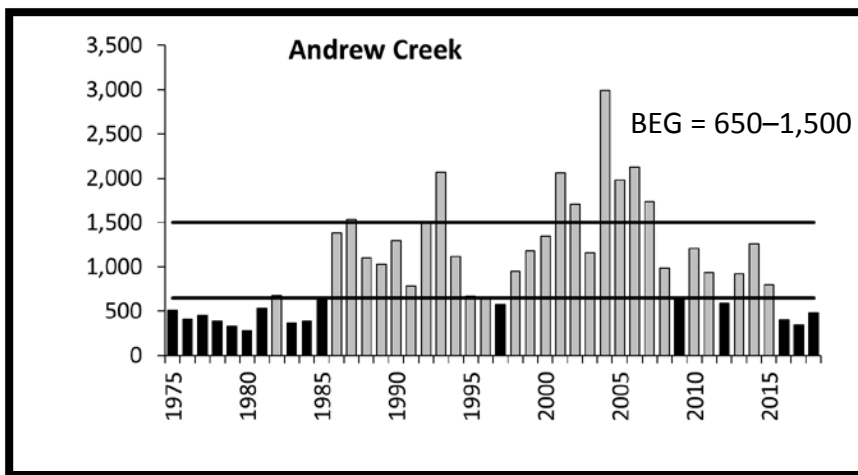
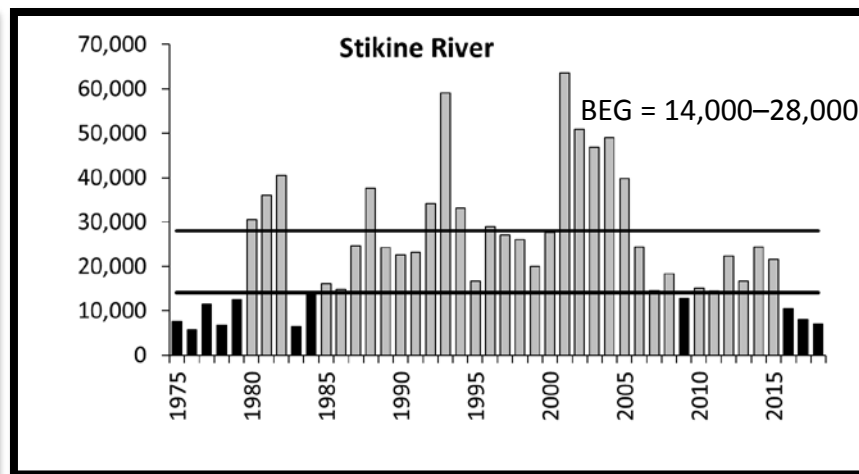
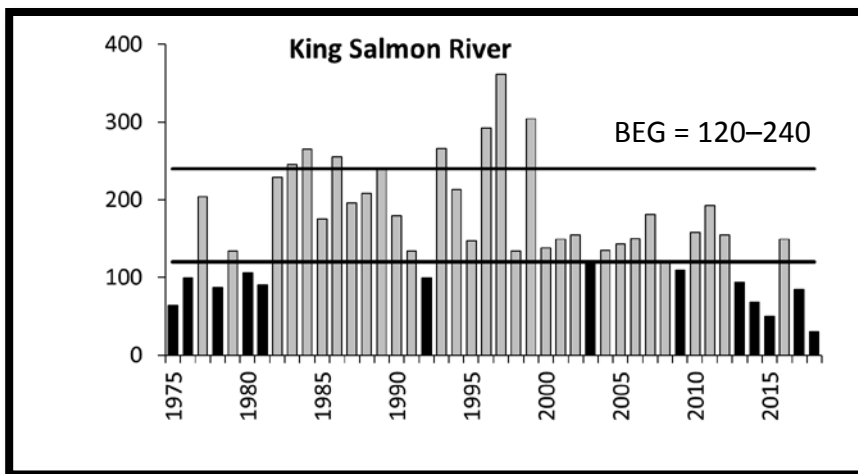
Achieved Goal



Below Goal

King Salmon Escapement Trends

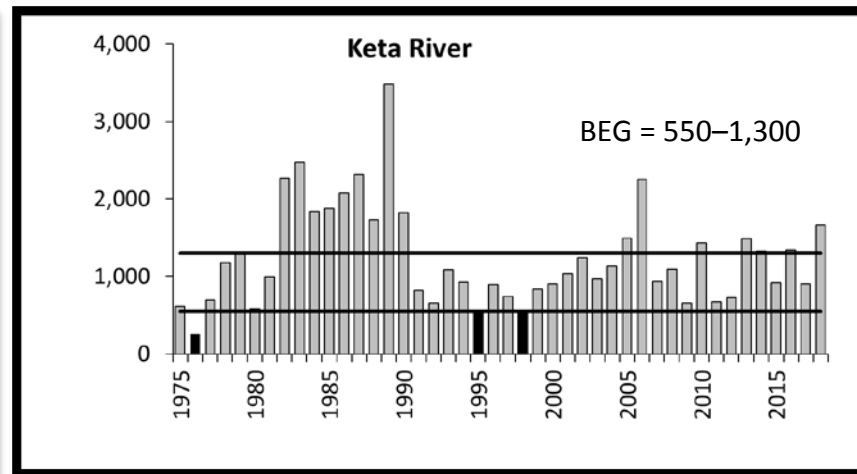
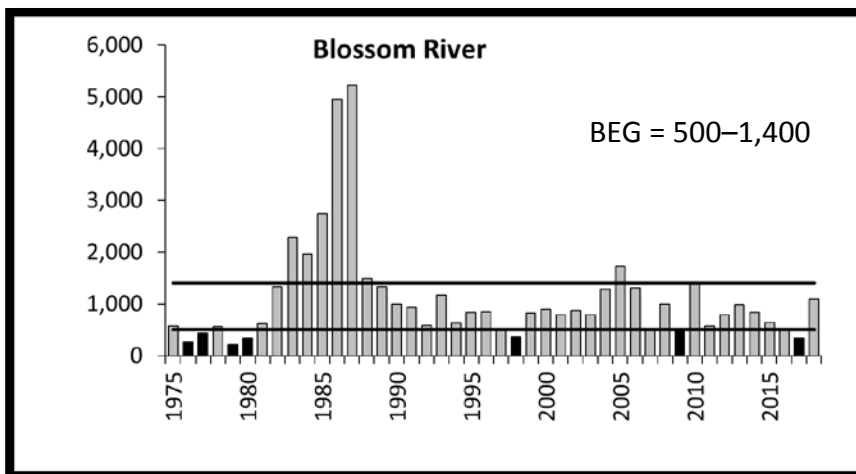
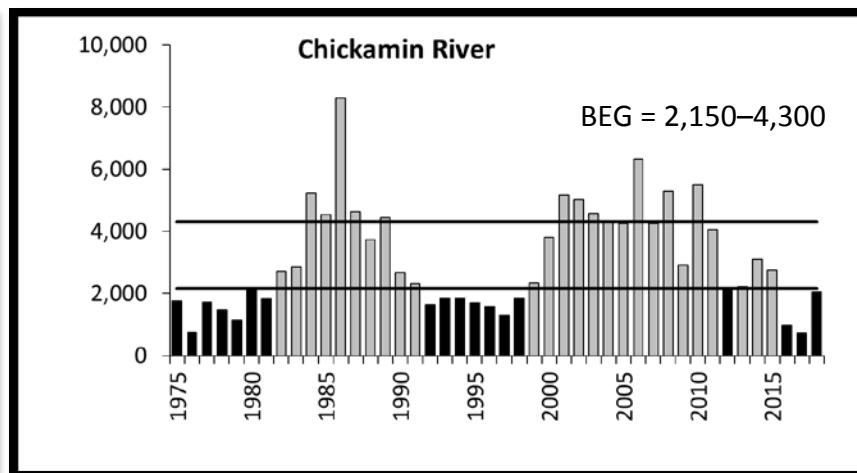
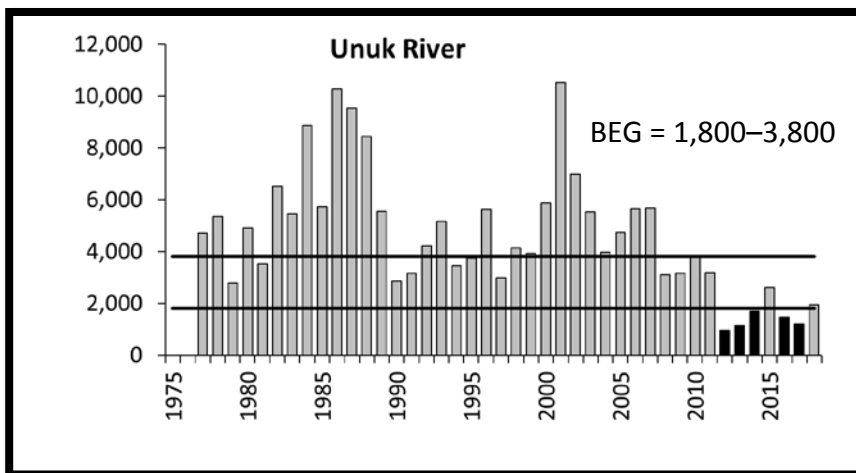
Escapement



Achieved Goal
 Below Goal

King Salmon Escapement Trends

Escapement



Achieved Goal



Below Goal

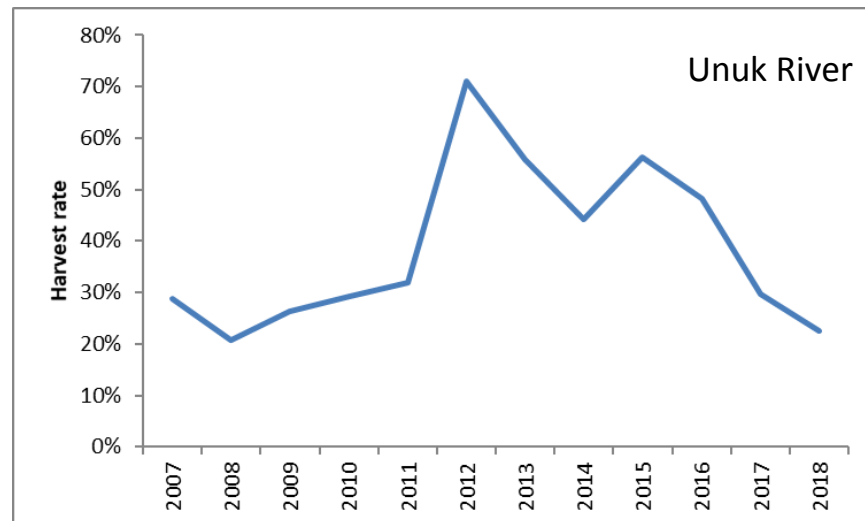
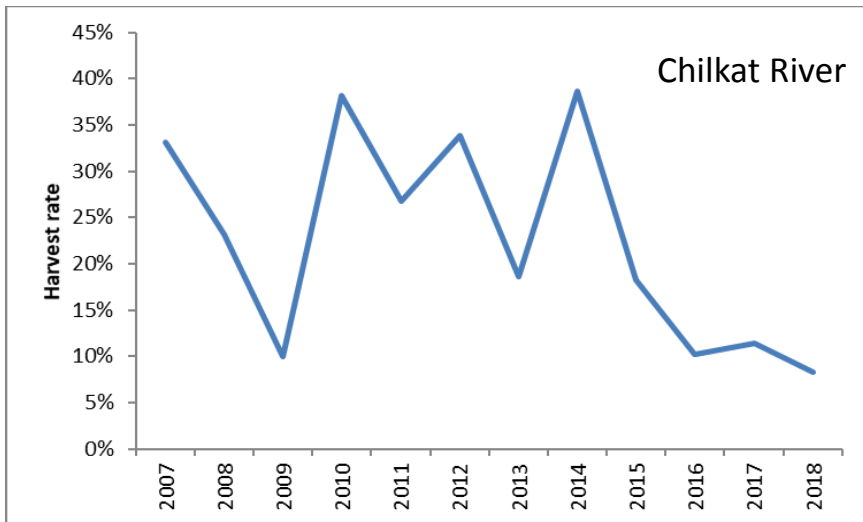
Stocks of Concern & Action Plan Summary

- October 2017 – 3 stocks identified as Stocks of Management Concern
- January 2018 – 2 Action Plans adopted
- 2018 fishery – restrictions to all fisheries to minimize harvest



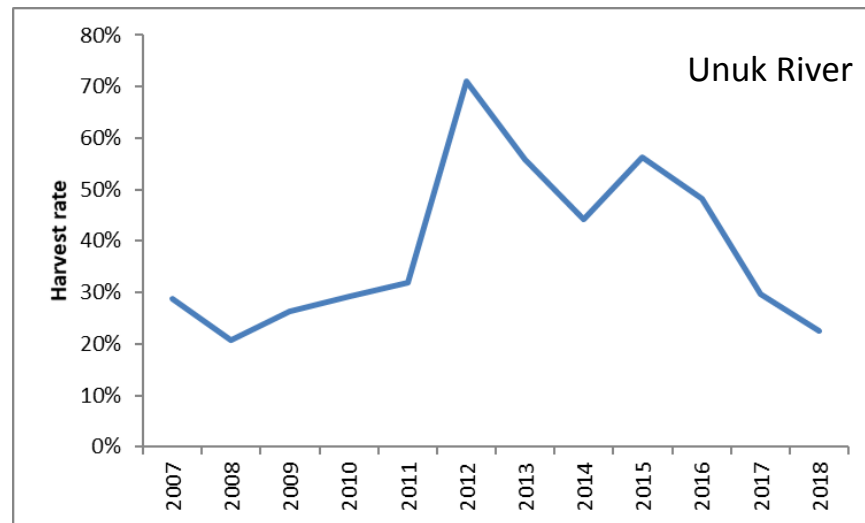
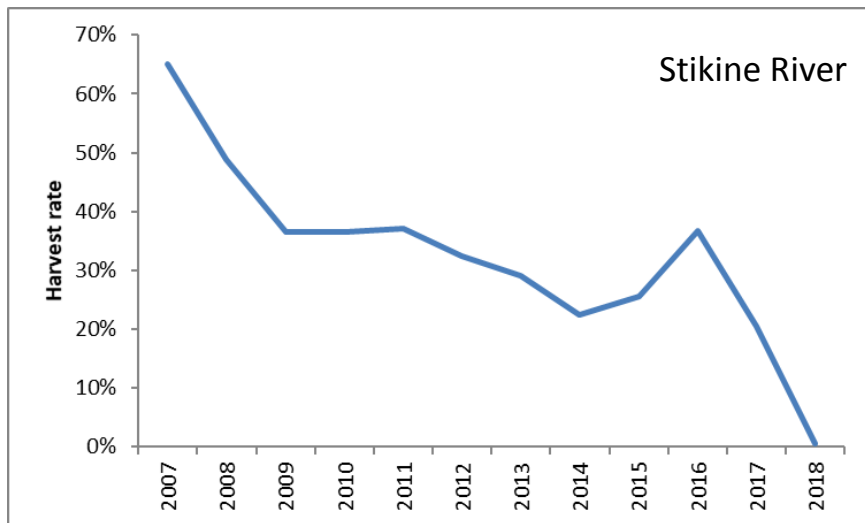
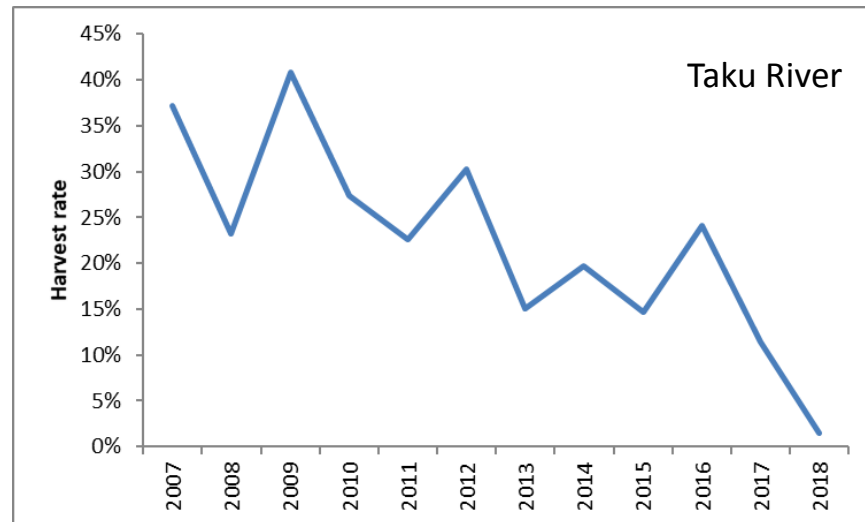
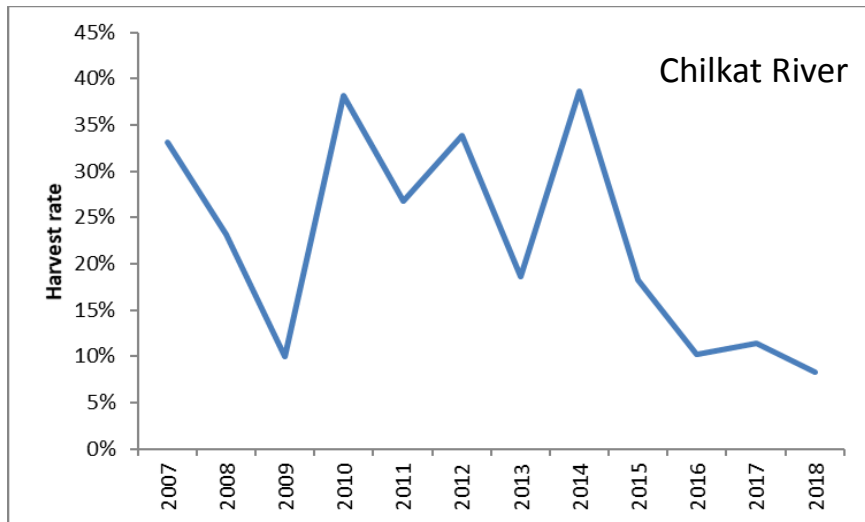
Stocks of Concern & Action Plan Summary

Action Plan Evaluation:



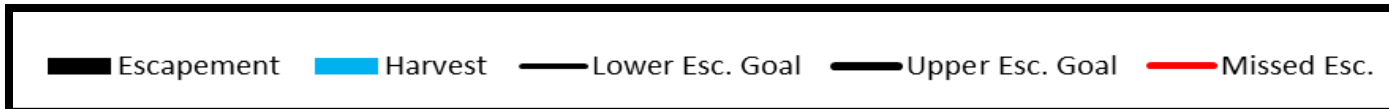
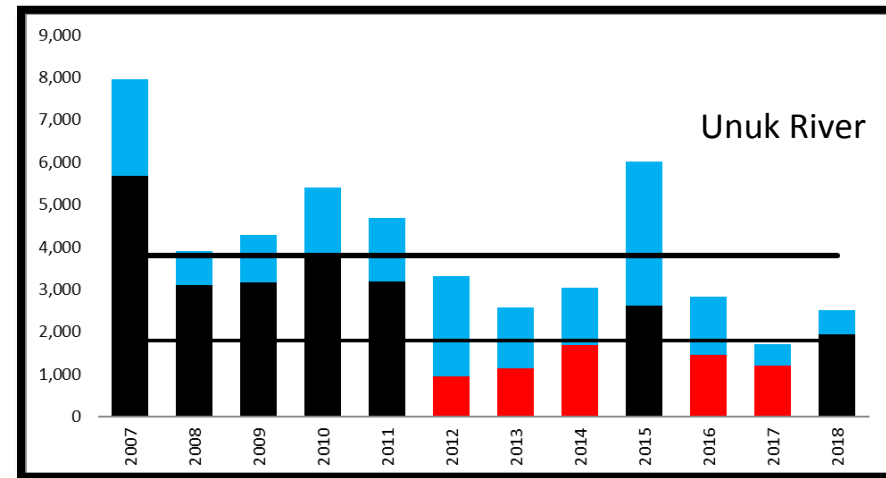
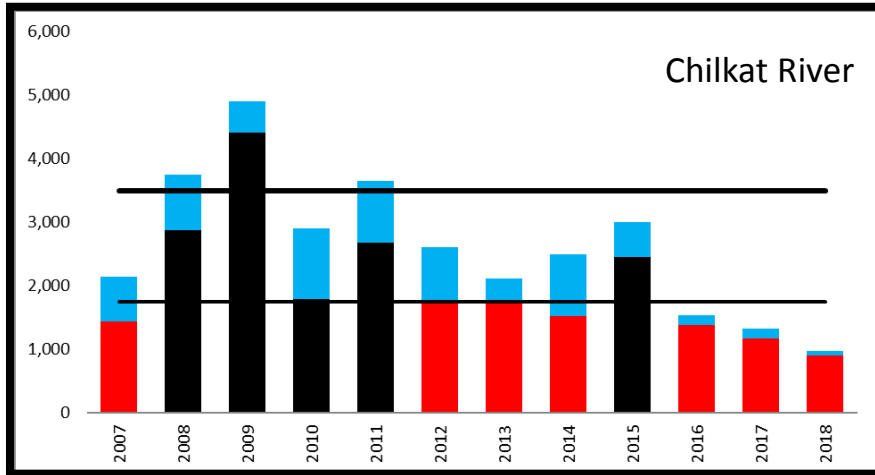
Stocks of Concern & Action Plan Summary

Action Plan Evaluation:



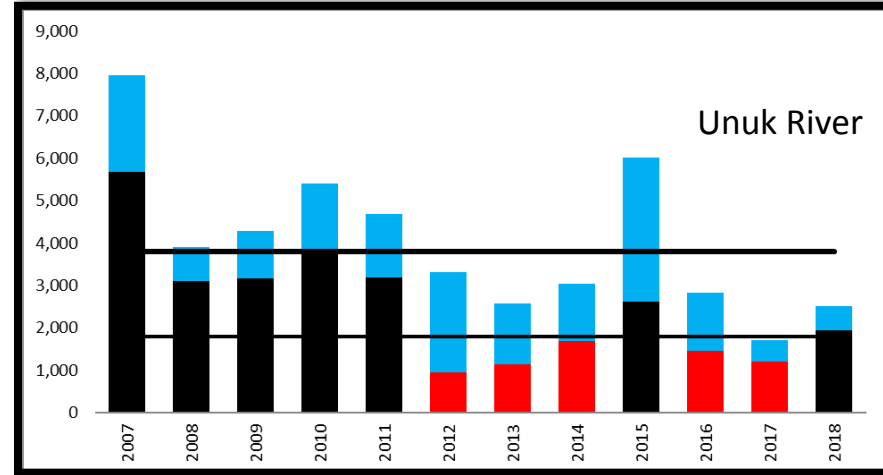
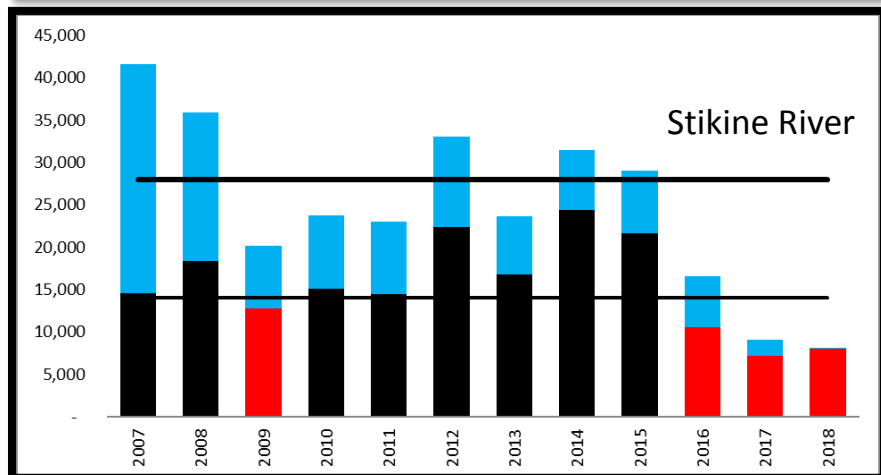
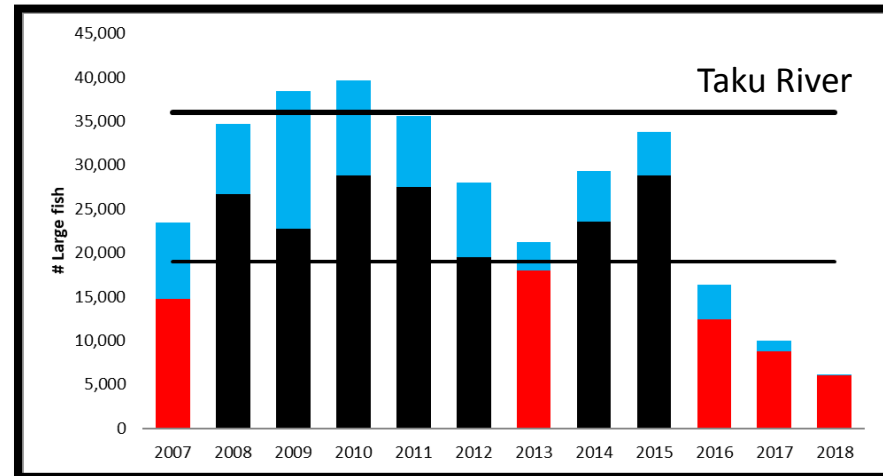
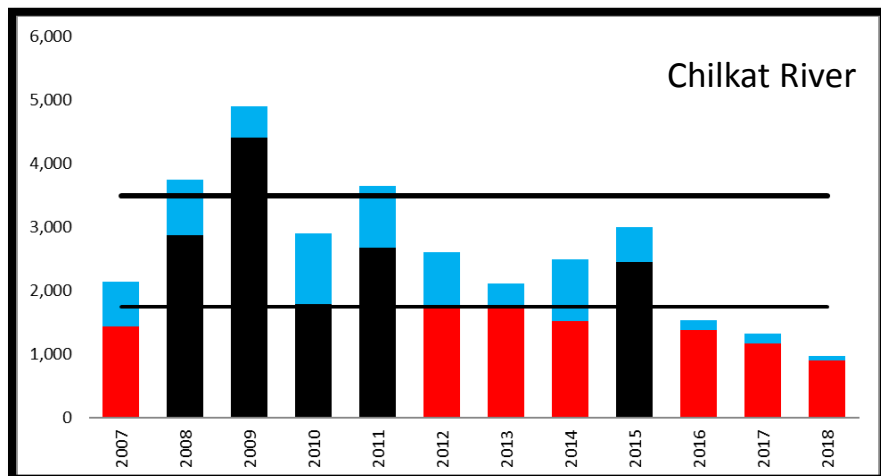
Stocks of Concern & Action Plan Summary

Action Plan Evaluation:



Stocks of Concern & Action Plan Summary

Action Plan Evaluation:



Synopsis

Escapements:

- 2018: 4 of 11 systems exceeded the Lower Bound of the BEGs
- 2017: 2 of 11 systems exceeded the Lower Bound of the BEGs

Harvest:

- Declining rate of harvest in 4 indicator stocks since 2016

SOC:

- 1 (Unuk) of 3 stocks of concern attained the Lower Bound of the BEG

Acknowledgements

Phil Richards

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