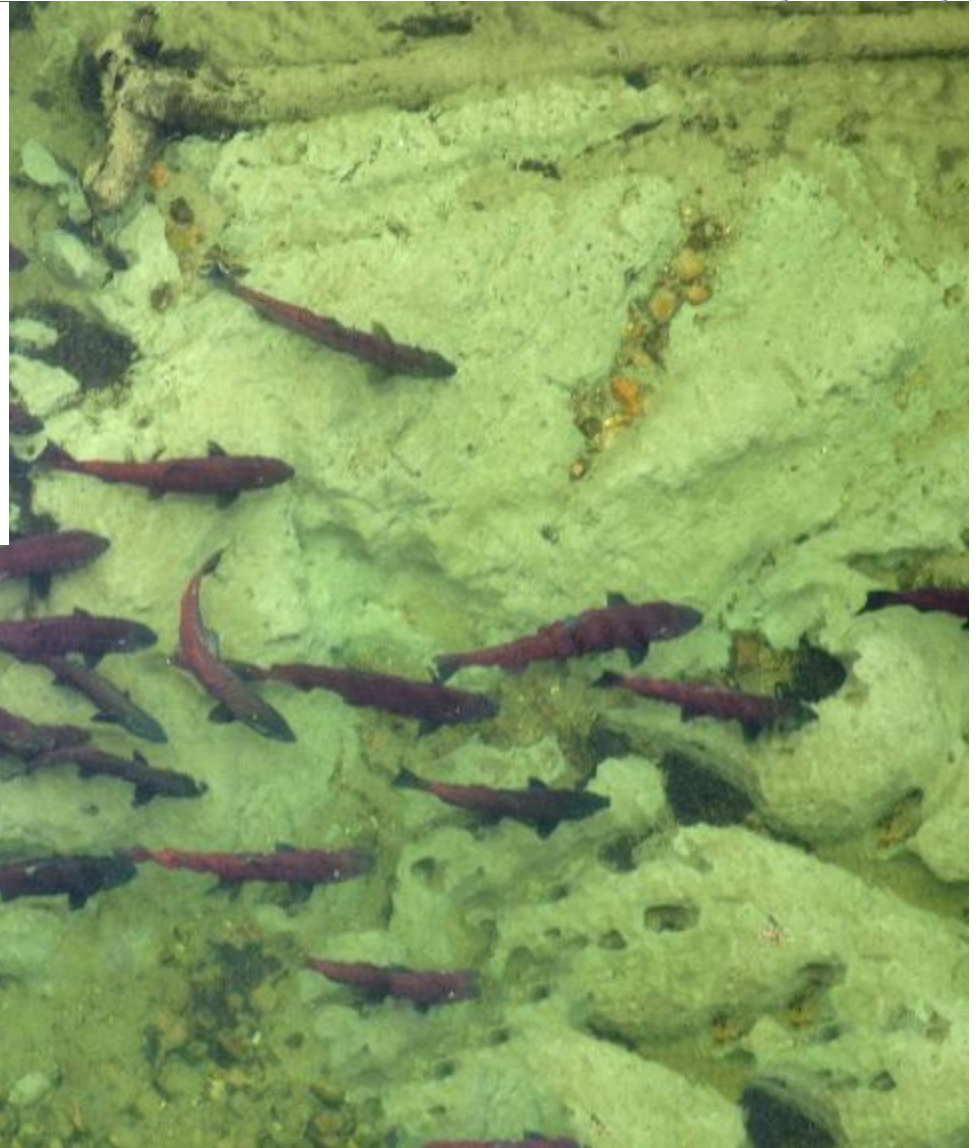




2023 Fraser River Stock Assessment and Fishery Summary

Chinook, Coho, and
Chum



Outline

Background & Stock Assessment

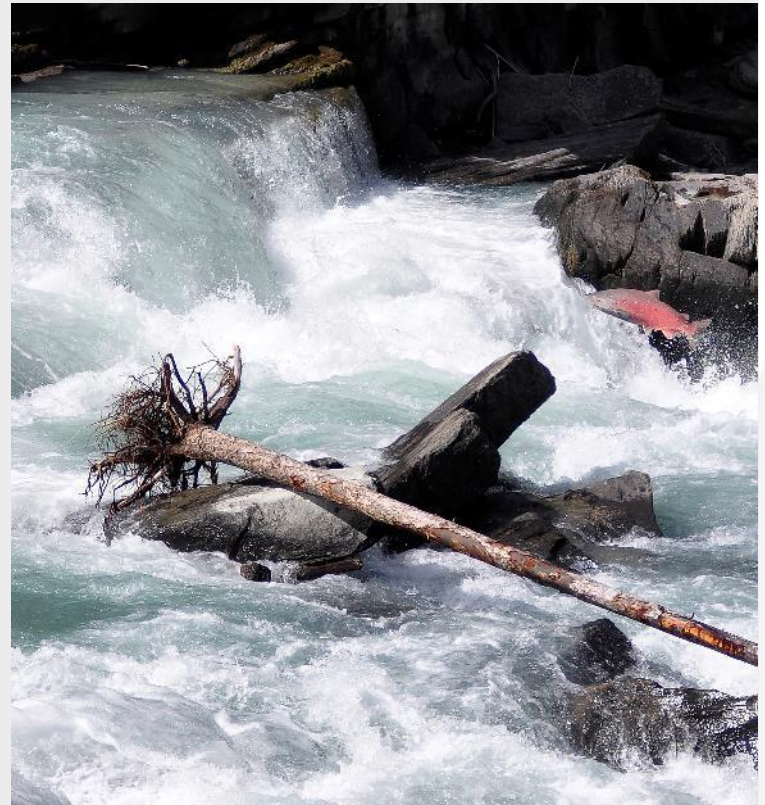
- Chinook
- Coho
- Chum

2023 Fraser River Fisheries

- First Nations
- Recreational
- Commercial

Questions

Photo by: Shane Kalyn

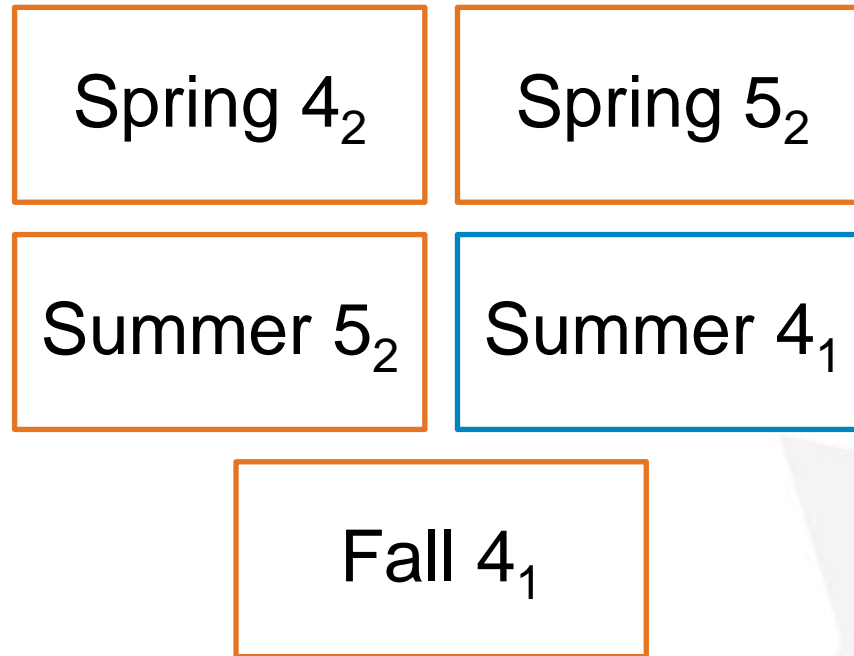


Background and Stock Assessment



Fraser River Chinook - Background

- Spawning occurs throughout the Fraser watershed
- Currently managed as five Management Units (MUs):



2023 Fraser Chinook Stock Assessment



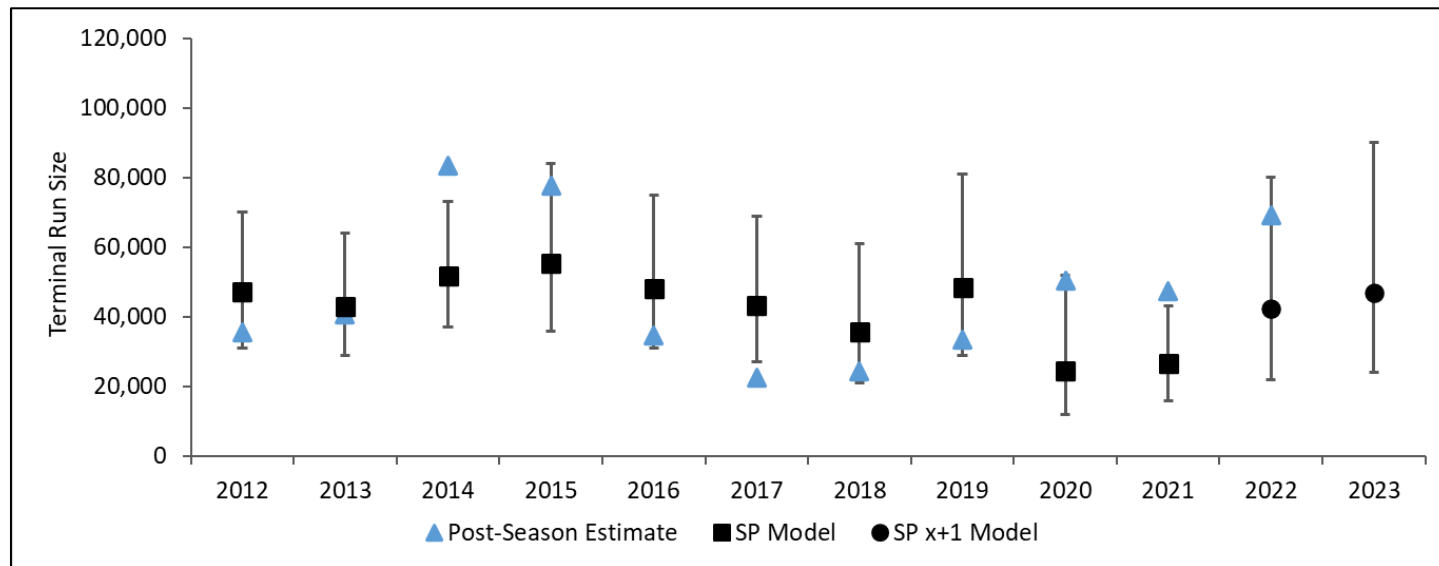
In-season Assessment:

- Objective for Spring 4₂, Spring 5₂, and Summer 5₂ Chinook: allow as many fish to pass through to the spawning grounds as possible.
- In-season run size estimate for Spring/Summer 5₂ Chinook did not affect management

Photo by: Shane Kalyn

Spring 5₂ and Summer 5₂ Chinook Run Size Model Outputs for 2023

2023 prediction using standard (8") gill net Albion data:
median = 46,789 (range 24,000 – 90,000)



- In 2022 and 2023, due to below average cumulative catch per unit effort (CPUE) values at the Albion test fishery, an alternative approach was explored using transformed CPUE inputs by adding one (1) to each value. These model outputs are included in the plot above and denoted with a circle.
- See FN0604 for more details.
- The post-season run size estimate for 2023 will be available in spring of 2024.

2023 Fraser Chinook Stock Assessment

Post-season Assessment:

- Spawner abundance is estimated using several methods:
 - Mark-recapture studies – Nicola, Harrison, Lower Shuswap, and Chilko.
 - Electronic counters – Bonaparte and Deadman.
 - Fence counts at Salmon River (Salmon Arm).
 - Remaining assessments are through visual surveys (aerial, foot or float).
- Enumeration of 2023 Chinook escapement is still ongoing; estimates will be available in the spring of 2024.

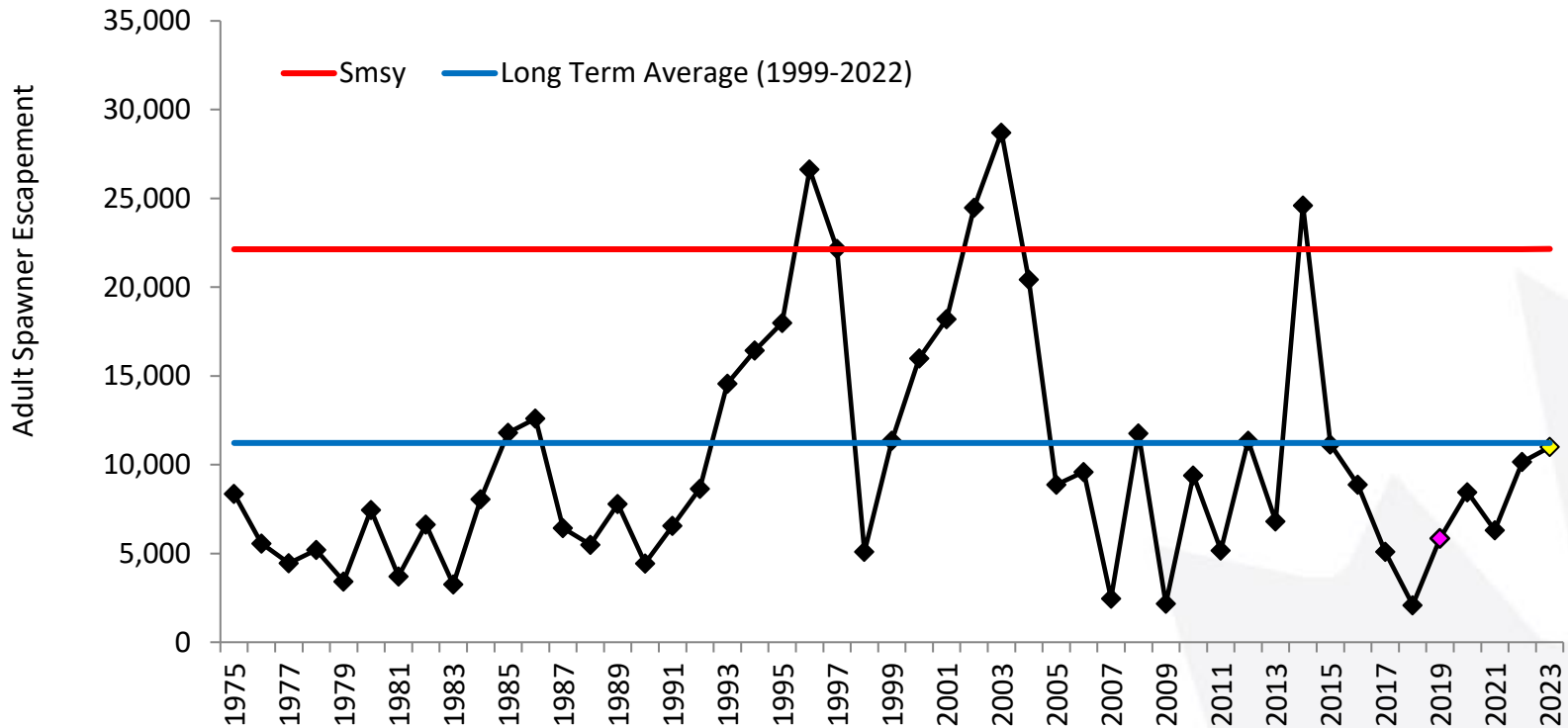
2023 Fraser Chinook Stock Assessment

Coming up:

- Time series of escapement for each Chinook MU
 - 2023 escapement estimates are preliminary and subject to change.
 - DFO Stock Assessment is currently working to infill and finalize the estimates.
 - Highlighting brood year escapement.
- Comparison against S_{MSY} or escapement goal and long-term average.
- S_{MSY} = the number of spawners needed to maintain Maximum Sustainable Yield (MSY)
- MSY = highest possible annual catch that can be sustained over time
- For each MU with reference to S_{msy} , these values were developed using an approach relating productive capacity to freshwater habitat area (Parken et al. 2006)
 - Harrison (Fall 4₁) escapement goal is based on Ricker stock-recruit approach (CTC 2002)

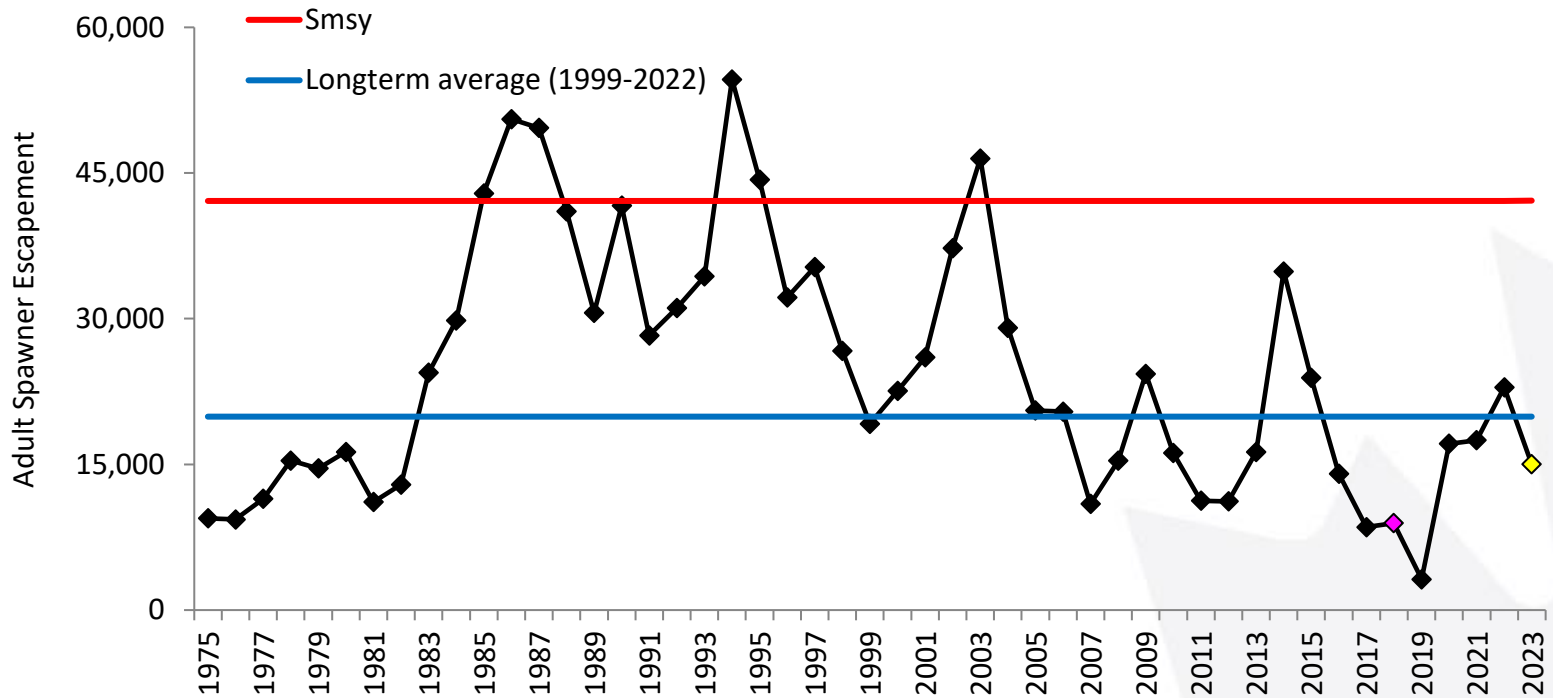
Escapement - Fraser Spring 4₂ Chinook

- Brood year escapement (2019) was below the recent average.
- The 2023 preliminary escapement estimate is ~11,000.



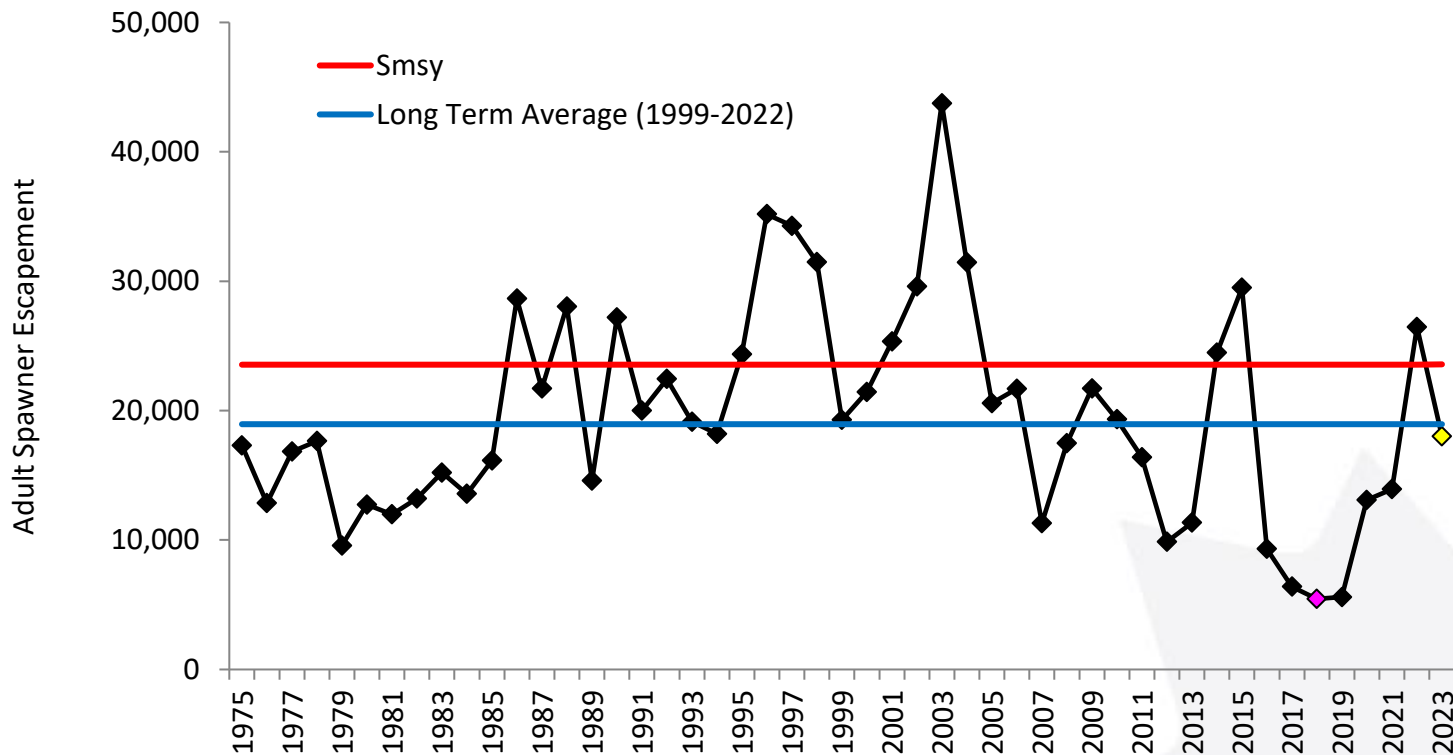
Escapement - Fraser Spring 5₂ Chinook

- Brood year escapement (2018) was below the long-term average.
- The 2023 preliminary escapement estimate is ~15,000.



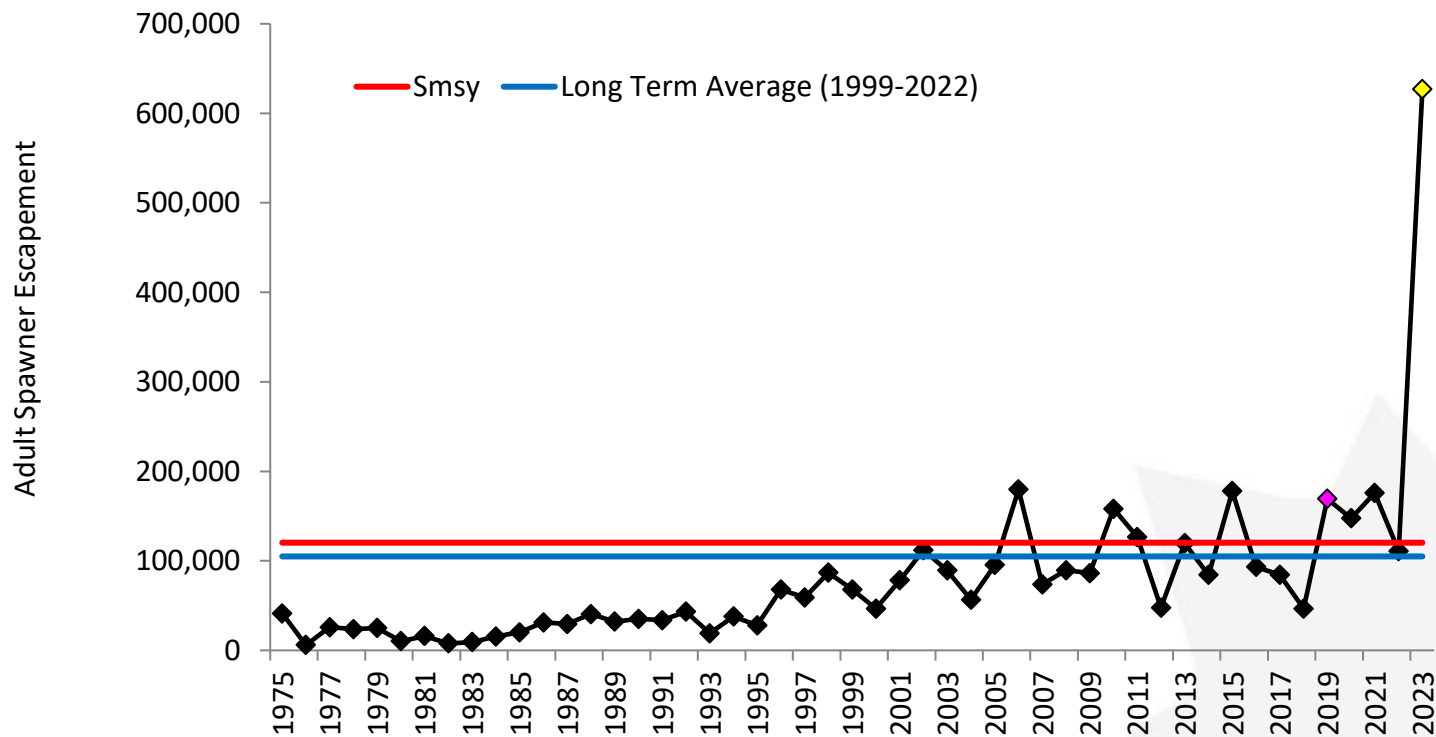
Escapement - Fraser Summer 5₂ Chinook

- Brood year escapement (2018) was below the long-term average.
- The 2023 preliminary escapement estimate is ~18,000.



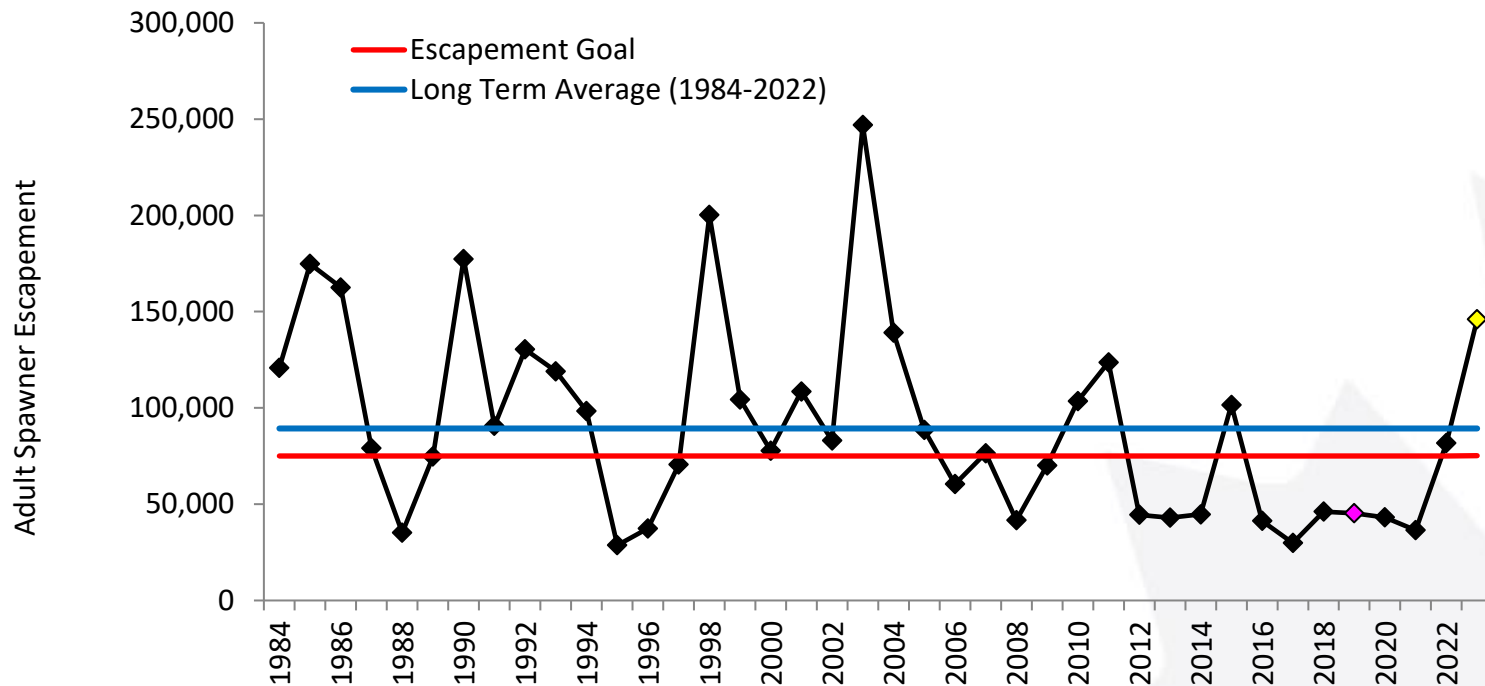
Escapement - Fraser Summer 4₁ Chinook

- Brood year escapement (2019) was above S_{msy} and the long-term average.
- The 2023 preliminary escapement estimate is ~627,000.



Escapement - Fraser Fall 4₁ Chinook

- Harrison brood year escapement (2019) below escapement goal and long-term average.
- The escapement goal (75,100) has been met three times in the last 10 years.
- The 2023 preliminary escapement estimate is ~146,000.



Fraser River Coho - Background

- Two populations of Coho in the Fraser River:
 - Lower Fraser River - Many spawning sites in lower Fraser River.
 - Interior Fraser Coho (IFC) - Return to the Upper Fraser and Thompson Rivers.
- Fraser Migration occurs August through November.
- IFC populations have declined dramatically from peak abundances observed in the 1980s.
- Escapement programs and management objectives mostly focused on IFC, but new programs in development for Lower Fraser Coho.

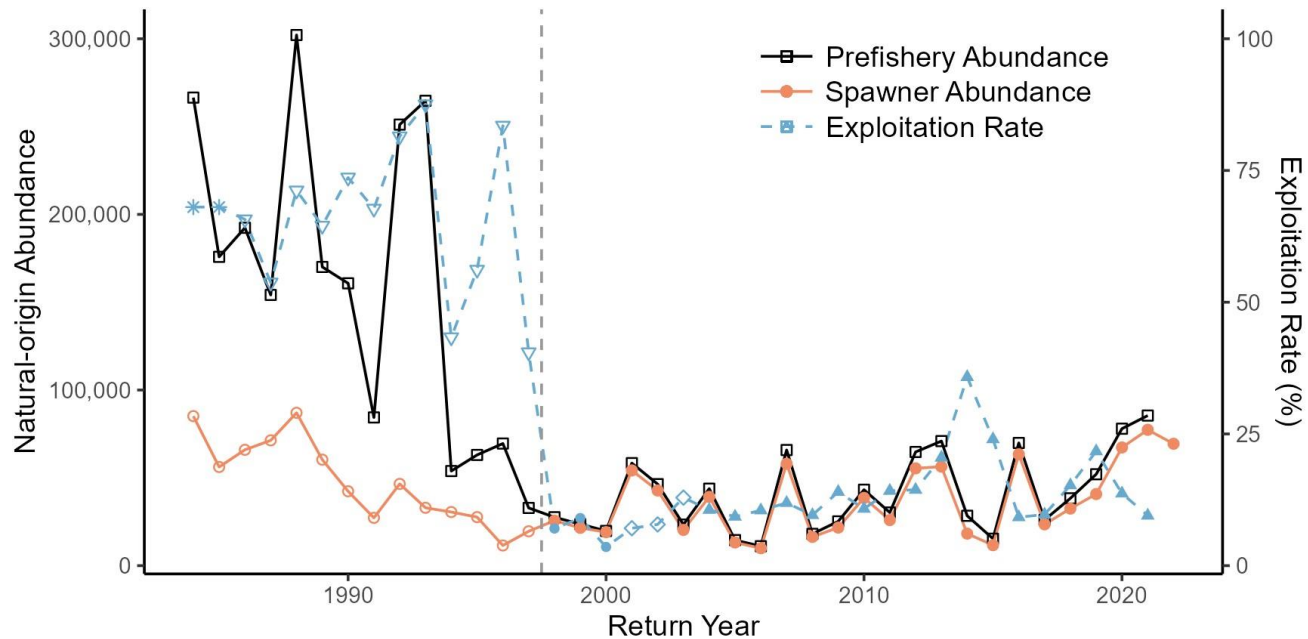


Interior Fraser River Coho - Status

Pacific Salmon Treaty reference points and exploitation rate caps:

	Low	Moderate	Abundant
Survival (CWT Indicator Programs)			
Escapement			
ER cap (US/Can)			

Interior Fraser River Coho – Total Abundance



- Interior Fraser Coho natural-origin spawner abundance (orange line series, 1984-2022) and pre-fishery abundance (black line series, 1984-2021) uses the left axis and total Canadian and US exploitation rate (blue dashed line series, 1984-2021) uses the right axis. Escapement methodology quality changed starting in 1998 (dashed vertical line), which resulted in an increase in the number of systems being surveyed and a more rigorous methodology.
- 2022 Natural-origin escapement still under review
- 2023 Pre-fishery Abundance forecast: 87,000 (80% interval 74,538-130,525)

Interior Fraser River Coho - Status

Escapement:

Return Year	Short Term Sub Pop Goal*		Short Term Escapement Proxy Goal	Natural Origin Escapement	Goal Met in Three Consecutive Years
2015	No	or	26,224	11,817	No
2016	Yes		32,041	63,876	No
2017	No		36,977	23,837	No
2018	Yes		35,701	33,138	No
2019	Yes		34,625	41,255	No
2020	Yes		34,207	68,612	Yes
2021	Yes		34,127	78,920	Yes
2022	Yes		TBD	**70,300	Yes

* three consecutive years of greater than 1,000 in half the sub populations within a CU in each of the 5 CUs.

**2022 Natural-origin escapement still under review

2023 assessment for Interior Fraser River Coho is not yet available

Interior Fraser River Coho - Status

Smolt-to-adult survival:

Return Year	CWT Survival	Moderate PST Survival Goal Met in 3 Years?
2015	0.7%	No
2016	1.3%	No
2017	1.0%	No
2018	1.4%	No
2019	1.6%	No
2020	1.8%	No
2021	3.2%	No
2022	*1.7%	No

**2022 survival still under review*

2023 assessment for Interior Fraser River Coho is not yet available

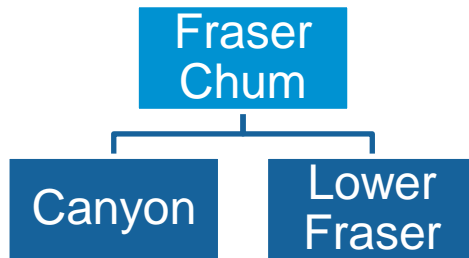
Interior Fraser River Coho - Status

Status for 2023:

	Low	Moderate	Abundant
Survival (CWT Indicator Programs)	S ≤ 0.03	Three consecutive years 0.03 < S ≤ 0.06	Three consecutive years S > 0.06
		and	and
Escapement	Monitored in CU's and subpops but no thresholds	Three consecutive years: · Half of subpops in each CU > 1000; or · Moderate Aggregate MU esc. objective	Three consecutive years: · All IFR subpops in each CU > 1000; or · Abundant Aggregate MU esc. objective
ER cap (US/Can)	0.20 (0.10/0.10)	0.30 (0.12/0.18)	0.45 (0.15/0.30)

Fraser River Chum - Background

- Largest Chum population in BC.



2 Conservation Units grouped under one Management Unit



- Majority of spawning occurs below Hope.
- Escapement goal set at 800,000.
- Peak return through Albion is mid- to late October.

2023 Fraser River Chum

- Managed based on in-season information derived from the Albion test fishery

In-season Run Size Estimates

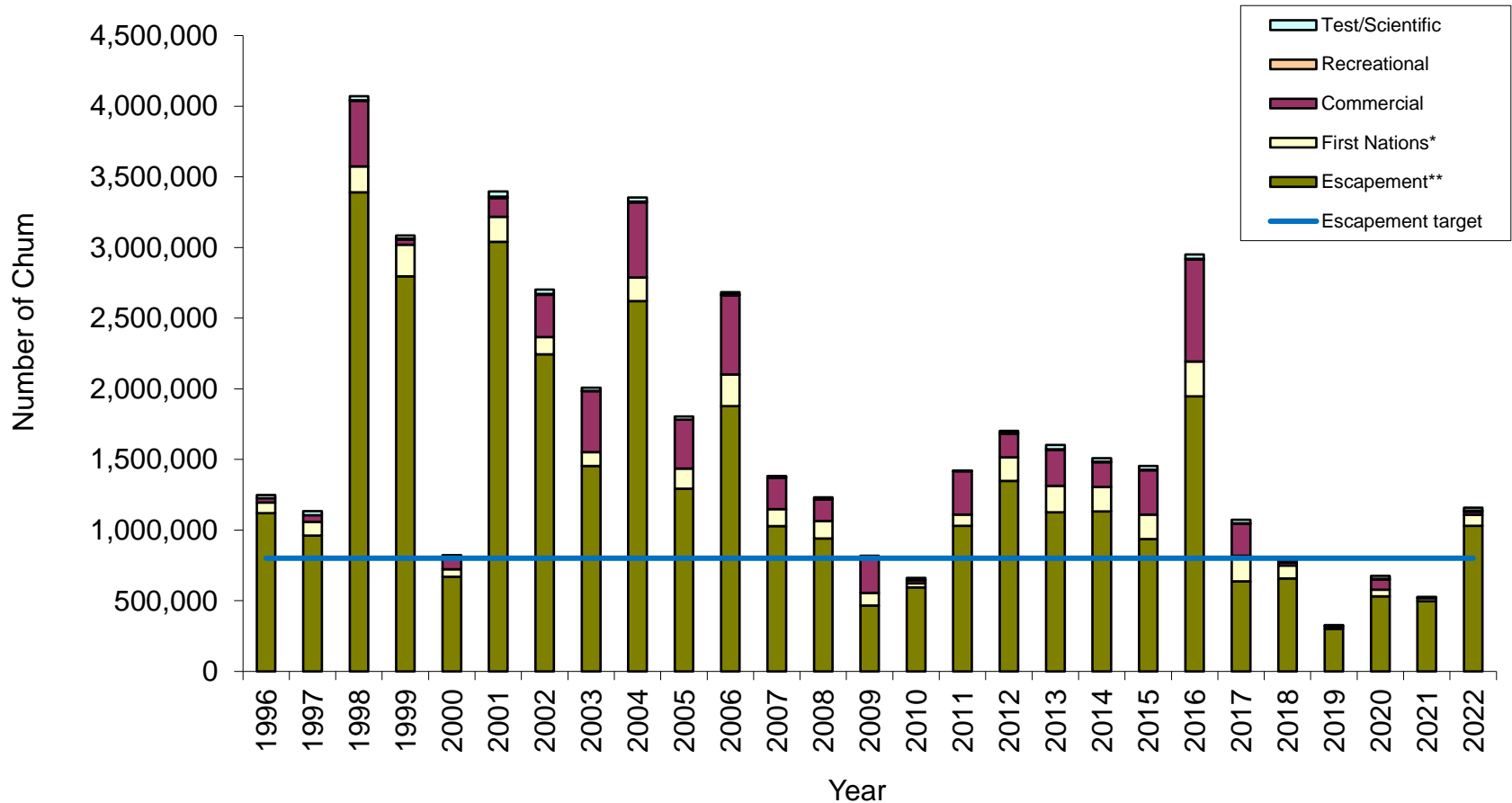
- October 13 preliminary:
 - **403,000** (27,000 - 600,000) (FN1109)
- October 20 final run:
 - **470,000** (326,000 - 677,000) (FN1150)



Post-season Assessment

- 2023 escapement assessments are still underway.

Preliminary Reconstructed Fraser Chum Pre-terminal Run Size



2023 Fraser River Fishery Summary



Photo by: Shane Kalyn

2023 Albion Test Fishery Summary

Dates

Chinook-directed
single panel (8"):
Apr. 23 – Oct. 20

Chinook-directed
multi-panel (6-9"):
Apr. 24 – Aug. 30

Chum-directed
single panel (6.75"):
Sep. 1 – Nov. 23

Catch

Chinook: 2,307

Chum: 1,468

Coho: 66

Sockeye: 736

Pink: 696

Steelhead: 11

2023 Fraser River Fisheries - First Nations

Management Objectives

- Direct harvest toward Summer 4₁ Chinook and Fraser Chum.
- Avoid at-risk stocks:
 - Chinook (Spring 4₂, Spring 5₂, Summer 5₂)
 - Sockeye (Early Stuart, Early Summer, Cultus Lake)
 - Interior Fraser Coho
 - Interior Fraser Steelhead



Management Actions

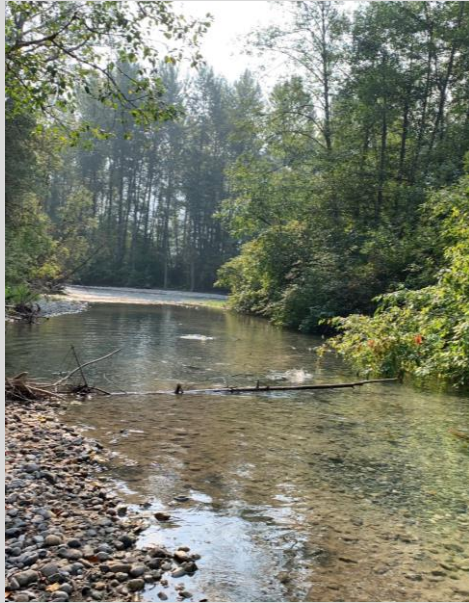
- Communal gill net openings in August to September (min 8" mesh) directed on Chinook and October to November (min. 6 ¼" mesh) directed on Chum.
- Longer-duration openings for fish wheel, rod & reel and dip net
- Window closures for Early-timed Sockeye, Interior Fraser Coho, and Interior Fraser Steelhead.

2023 Fraser River Catch - First Nations

	Chinook		Coho		Chum		Steelhead	
	rel	kept	rel	kept	rel	kept	rel	kept
FSC								
<i>Lower Fraser</i>	37	26,095	129	110	11	21,377	5	-
<i>BC Interior</i>	149	3,786	0	59	-	-	0	0
<i>FSC Total</i>	186	29,881	129	169	11	21,377	5	0
Economic Opportunity								
<i>Lower Fraser</i>	-	135	30	-	-	-	1	-
<i>BC Interior</i>	-	-	-	-	-	-	-	-
<i>Ec Opp Total</i>	0	135	30	0	0	0	1	0
ESSR.								
<i>Lower Fraser</i>	-	20,230	-	27,848	-	13,195	-	-
<i>BC Interior</i>	-	-	-	-	-	-	-	-
<i>ESSR Total</i>	0	20,230	0	27,848	0	13,195	0	0
All Catch								
<i>Lower Fraser</i>	37	46,460	159	27,958	11	34,572	-	-
<i>BC Interior</i>	149	3,786	-	59	-	-	-	-
<i>All Catch Total</i>	186	50,246	159	28,017	11	34,572	6	0

- **Estimates are preliminary and subject to change**
- ESSR catch is from Inch Creek, Chilliwack River, and Chehalis River.
- Chinook catch includes Jacks.
- All Steelhead were released.

2023 Recreational Fishery Management



*Additional information
can be found in the DFO
[fishery notice database](#).*

Approaches to Fraser River - Subareas 29-6, 29-7, 29-9 and 29-10:

- Closed to fishing for salmon.

Tidal Fraser River:

- Mission to the Mouth Sep. 1 to 18 – retention of Pink.

Non-tidal waters of the Fraser River from Mission Bridge to Hope:

- Mission to Hope Sep. 1 to 21 – retention of Pink.
- Hope to Alexandra Bridge Sep. 13 to 25 – retention of Pink.

Freshwater Regions 3, 5, 7, & 8:

- Region 3: Kamloops Lake - Chinook (Aug. 28-Sep. 22) and Pink (Sep. 1-22); South Thompson - Chinook (Aug. 16-Sep. 22) and Pink (Sep. 1-22); Thompson River - Chinook Jack (Aug. 28-Sep. 22) and Pink (Sep. 1-22)
- Region 5A: Quesnel River – Pink (Sep. 16-26)
- Region 7: No fishing for salmon
- Region 8: Lower Shuswap and Mabel Lake – Chinook (Aug. 16-Sep. 22)

2023 Fraser River Catch - Recreational

	Chinook		Coho		Chum	
	rel	kept	rel	kept	rel	kept
Lower Fraser	NA	NA	NA	NA	NA	NA
BC Interior	4,940	11,311	48	0	-	-
Totals	4,940	11,311	48	0	0	0

- **Estimates are preliminary and subject to change.**
- **Lower Fraser catch estimates will be available early 2024.**
- Information on catch in marine waters can be found by searching "South Coast Assessment Bulletin Creel" at: <http://science-libraries.canada.ca/eng/home/>

2023 Fraser River Fisheries - Commercial

- No commercial Chum-directed fisheries were licensed in 2023 in Area 29.

Area E – Gill Net

- The Area E gill net Fraser Chum commercial fishery in Area 29 was identified as a longer-term commercial closure and therefore was closed in 2023.

Area B - Seine

- At terminal run sizes less than 916,000, no commercial Chum TAC is available.

Fraser Chinook 2019 to 2022 Results – Run Reconstruction + Genetic Stock ID

Run Reconstruction + Genetic Stock ID						
Management Unit	2014-2018 Avg. CDN Fishery Mortality	2019 CDN Fishery Mortality	2020 CDN Fishery Mortality	2021 CDN Fishery Mortality	2022 CDN Fishery Mortality	2019-2022 Avg. CDN Fishery Mortality
Spring 4 ₂	25.1%	5.1%	4.5%	3.6%	2.8%	3.9%
Spring 5 ₂	24.2%	10.3%	2.6%	5.7%	2.7%	4.9%
Summer 5 ₂	25.0%	18.2%	13.0%	14.8%	10.2%	13.1%
Summer 4 ₁	43.0%	32.0%	25.2%	24.1%	26.8%	27.1%
Fall 4 ₁	23.8%	18.1%	19.5%	23.3%	31.4%	24.5%

Fraser Chinook 2019 to 2022 Results – Exploitation Rate Analysis

Exploitation Rate Analysis						
Management Unit (indicator)	2014-2018 Avg. CDN Fishery Mortality	2019 CDN Fishery Mortality	2020 CDN Fishery Mortality	2021 CDN Fishery Mortality	2022 CDN Fishery Mortality	2019-2022 Avg. CDN Fishery Mortality
Spring 4 ₂ (Nicola)	16.6%	2.1%	27.7%	5.1%	2.0%	9.2%
Spring 5 ₂ (No Indicator)	n/a	n/a	n/a	n/a	n/a	n/a
Summer 5 ₂ (No Indicator)	n/a	n/a	n/a	n/a	n/a	n/a
Summer 4 ₁ (Lower Shuswap)	27.6%	13.8%	20.3%	17.2%	22.6%	18.5%
Fall 4 ₁ (Harrison)	22.6% (HAR) 25.1% (CHI)	22.0% (HAR) 18.1% (CHI)	16.5% (HAR) 31.1% (CHI)	17.0% (HAR) 23.3% (CHI)	5.0% (HAR) 43.1% (CHI)	15.1% (HAR) 28.9% (CHI)



Questions?



References

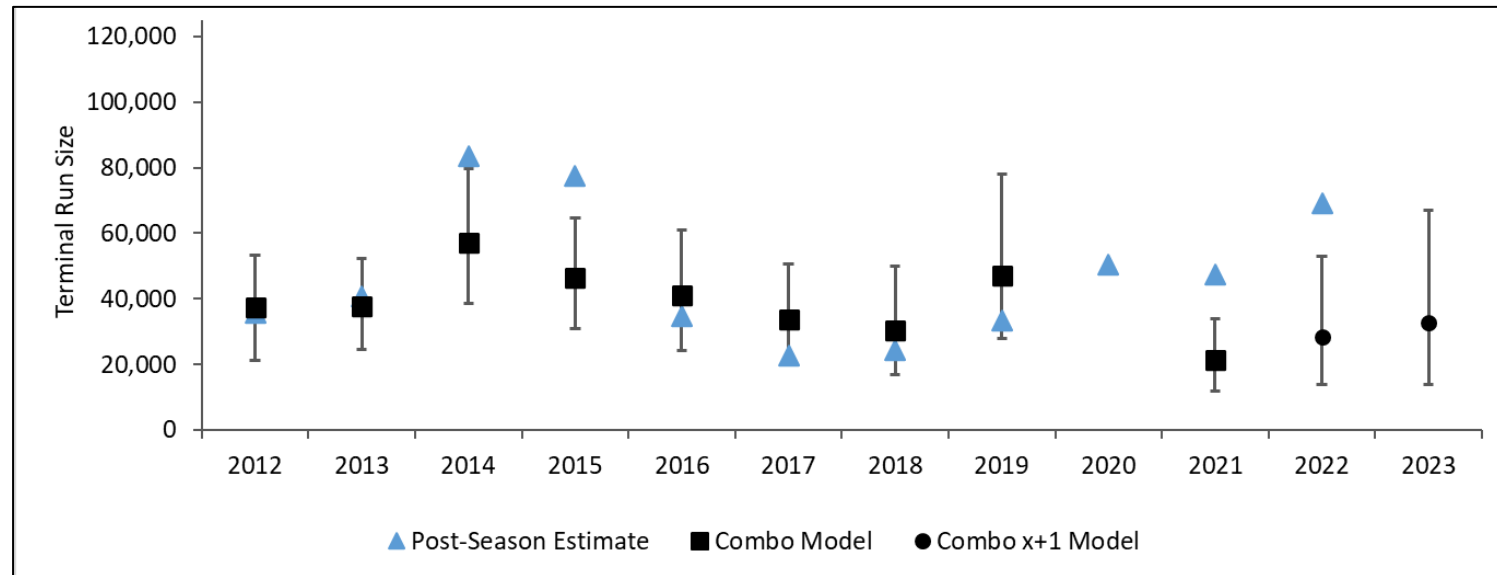
- CTC. 2002. Catch and escapement of Chinook salmon under Pacific Salmon Commission jurisdiction 2001. Pacific Salmon Commission, Report TCCHINOOK (02)–1. Vancouver, BC.
- Parken, C. K., R. E. McNicol, and J. R. Irvine. 2006. Habitat-based methods to estimate escapement goals for data limited Chinook salmon stocks in British Columbia, 2004. Department of Fisheries and Oceans Canada, Canadian Science Advisory Secretariat Research Document 2006/083.

Additional Slides



Spring 5_2 and Summer 5_2 Alternative Albion Model Outputs

Prediction using both multi-panel and standard net Albion data:
16,000 – 61,000 (median = 32,460)



- For 2020, there was no catch in the multipanel net up to week 06/2, so the model could not be run unless a placeholder CPUE input of 0.01 was used. This was considered an unreliable estimate so is not included in comparisons with other years.
- In 2022 and 2023, due to below average cumulative catch per unit effort (CPUE) values at the Albion test fishery, an alternative approach was explored using transformed CPUE inputs by adding one (1) to each value. These model outputs are included in the plot above and denoted with a circle.
- The post-season estimate for 2023 will be available in spring of 2024

2019-2022 Fraser Chinook Impact Assessment: Preliminary results

Catch amounts used to calculate Fishing Mortality Index for the run reconstruction plus genetic stock identification method (RR+GSI).
Exploitation Rate Analysis (ERA) results provided for comparison (note: methods are different, and results not expected to align precisely).

	STOCK MANAGEMENT UNIT																													
	Spring 4 ₁						Spring 5 ₂						Summer 5 ₂						Summer 4 ₁						Fall 4 ₁					
	AVERAGE 2014-2018	2019	2020	2021	2022	AVERAGE 2019-2022	AVERAGE 2014-2018	2019	2020	2021	2022	AVERAGE 2019-2022	AVERAGE 2014-2018	2019	2020	2021	2022	AVERAGE 2019-2022	AVERAGE 2014-2018	2019	2020	2021	2022	AVERAGE 2019-2022	AVERAGE 2014-2018	2019	2020	2021	2022	AVERAGE 2019-2022
Spawners	10,720	6,154	8,886	6,613	10,479	8,033	20,393	4,894	20,054	22,537	26,833	18,580	21,518	9,069	22,028	21,669	38,884	22,913	106,883	173,431	168,240	200,039	180,570	90,977	120,000	82,982	95,809	161,461	115,063	
Big Bar Mortality	n/a	n/a	n/a	n/a	n/a	n/a	n/a	11,399	5,140	0	0	4,135	n/a	5,798	0	0	0	1,450	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Fraser First Nations FSC	2,547	89	303	116	172	170	2,959	666	368	475	336	461	2,060	1,131	1,786	1,271	2,071	1,565	9,463	26,630	29,968	24,824	19,126	25,137	1,103	480	256	128	1,655	630
Fraser Recreational	63	0	0	0	1	0	210	0	4	177	81	66	716	255 ³	593 ³	581 ³	415 ³	461	6,337	3,715	3,616	3,720	3,343	3,599	5,055	7,735	5,469	8,153	27,734	12,273
Fraser Test	120	72	67	75	48	66	258	178	221	255	160	204	291	157	305	360	396	305	1,381	2,759	2,152	2,638	2,128	2,419	323	503	234	155	642	384
Fraser Commercial/EO	5	0	0	0	0	0	2	0	0	0	0	0	125	0	0	0	0	0	3,467	1	0	0	9	3	194	1	0	0	15	4
Total In-River Fishing Mortality	2,735	161	370	191	221	236	3,428	844	593	907	577	730	3,191	1,543	2,684	2,212	2,882	2,330	20,649	33,105	35,736	31,182	24,606	31,157	6,674	8,719	5,959	8,436	30,046	13,290
Total Return to River	13,455	6,315	9,256	6,804	10,700	8,269	23,821	17,137	25,787	23,444	27,410	23,445	24,709	16,410	24,712	23,881	41,766	26,692	127,532	206,536	203,976	231,221	24,606	211,727	97,651	128,719	88,941	104,245	191,507	128,353
NBC Commercial ¹	136	0	0	0	0	0	977	96	0	145	96	84	1,011	40	16	60	40	39	24,339	3,613	1,487	5,442	3,613	3,539	351	81	16	122	81	75
NBC First Nations ¹	13	0	0	0	0	0	95	3	4	3	2	3	98	2	2	2	1	2	2,358	263	319	257	187	256	34	16	19	15	11	15
NBC Recreational ¹	72	15	1	0	1	4	307	67	12	100	5	46	307	420	8	415	487	332	7,726	10,865	1,592	4,286	1,305	4,512	73	282	63	64	58	117
SBC Commercial ²	218	90	0	0	0	22	240	100	0	1	2	26	211	89	1	57	84	58	2,612	1,163	2,194	4,496	3,412	2,816	1,799	753	107	621	1,256	684
SBC First Nations ²	0	0	6	35	0	10	0	0	0	19	11	8	179	121	23	62	117	81	2,685	1,821	1,112	1,911	2,683	1,882	179	121	1,171	312	1,068	668
SBC Recreational ⁶	422	61	51	24	77	53	1,460	755	71	192	61	270	2,175	1,091	572	954	806	855	20,238	30,688	14,563	16,386	10,593	18,058	19,276	16,511	13,989	19,650	42,127	23,069
Total CDN Marine Fishing Mortality ^{4,5}	861	167	59	59	78	91	3,078	1,021	86	460	177	436	3,981	1,762	623	1,549	1,535	1,367	59,957	48,413	21,267	32,778	21,793	31,063	21,712	17,764	15,366	20,785	44,601	24,629
Total CDN Fishing Mortality	3,596	328	429	250	299	326	6,506	1,865	679	1,367	754	1,166	7,172	3,305	3,307	3,761	4,417	3,698	80,605	81,518	57,003	63,960	46,399	62,220	28,386	26,483	21,325	29,221	74,647	37,919
Run Size Index	14,316	6,482	9,315	6,863	10,778	8,359	26,899	18,158	25,874	23,903	27,587	19,746	28,690	18,172	25,335	25,430	43,302	26,610	187,489	254,949	225,243	263,999	46,399	242,790	119,363	146,483	104,307	125,030	236,109	152,982
RR+GSI Fishing Mortality Index	25.1%	5.1%	4.6%	3.6%	2.8%	3.9%	24.2%	10.3%	2.6%	5.7%	2.7%	5.9%	25.0%	18.2%	13.1%	14.8%	10.2%	13.9%	43.0%	32.0%	25.3%	24.2%	100.0%	25.6%	23.8%	18.1%	20.4%	23.4%	31.6%	24.8%
Exploitation Rate Analysis Fishing Mortality Index*	16.6%	2.1%	27.7%	5.1%	2.0%	9.2%	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	27.6%	13.8%	20.3%	17.2%	22.6%	18.5%	22.6% (HAR) 25.1% (CHI)	22.0% (HAR) 18.1% (CHI)	16.5% (HAR) 31.1% (CHI)	17.0% (HAR) 23.3% (CHI)	5.0% (HAR) 43.1% (CHI)	15.1% (HAR) 28.9% (CHI)

Notes/Caveats

¹ NBC GSI in base period is uncertain; based on microsatellite data from Area 1-5 Troll fisheries. Re-analysis with single-nucleotide polymorphisms (SNPs) is planned in future. In 2021 and 2022, some infilling occurred due to low sample rates.

² WCVI GSI in base period is uncertain; using 2019 WCVI GSI as a proxy; have some data but not for all years, needs further work.

³ Fraser recreational catch of Summer 5₂ Chinook in 2019-2022 was all terminal catch in Chilliwack and Chehalis rivers. Very small amount of bycatch also from Pink-directed fishery in 2021.

⁴ Central BC catch is assumed to not impact Fraser stocks based on limited GSI samples and area fished, so is not included here.

⁵ Inside marine SBC First Nations catch is not currently included in the base period or 2019 due to lack of GSI data; could use a proxy as was done in 2021/2022

2020 impacts: 6 Fraser Sp 4(2), 23 Fraser Su 5(2), 371 Fraser Su 4(1), 1171 Fraser Fall

2021 impacts: 7 Fraser Su 5(2), 95 Fraser Su 4(1), 319 Fraser Fall, using JSt/NSoG Rec GSI as a proxy

2022 impacts: 1 Fraser Sp 5(2), 10 Fraser Su 5(2), 64 Fraser Su 4(1), 834 Fraser Fall; using JSt/NSoG Rec GSI as a proxy

⁶ Recreational fishery impacts are infilled for May-Sep using iREC; Oct-Apr is catch info without infilling.

Chum In-Season Run Size Estimates

Year	In-season run size	Post-season run size	Escapement
2012	2,326,000	1,594,731	1,333,993
2013	1,489,000	1,425,763	1,114,947
2014	1,329,000	1,385,372	1,122,392
2015	1,567,000	1,249,936	923,352
2016	2,000,000	2,383,505	1,930,695
2017	1,320,000	908,874	626,661
2018	769,000	762,588	647,251
2019	518,000	324,524	291,379
2020	1,084,000	624,354	521,050
2021	481,000	522,899	488,763
2022	879,000	1,120,887	1,021,484

2023 IFR Steelhead Window Closure

Fishery Location		27-day window closure (commercial troll fisheries and FSC fisheries occurring in the Fraser River)		42-day window closure (commercial drift and set gillnet, purse seine, beach seine, and shallow seine fisheries and recreational fisheries occurring in the Fraser River)	
		Start	End	Start	End
Fraser River	Area 29: 29-6, 29-7, 29-9, and 29-10	26-Sep	22-Oct	19-Sep	30-Oct
	Mouth to Port Mann Bridge	26-Sep	22-Oct	19-Sep	30-Oct
	Port Mann Bridge to Mission	28-Sep	24-Oct	21-Sep	1-Nov
	Mission to Hope	29-Sep	25-Oct	22-Sep	2-Nov
	Hope to Sawmill Creek	3-Oct	29-Oct	26-Sep	6-Nov
	Sawmill Creek to Lytton (Thompson Confluence)	5-Oct	31-Oct	28-Sep	8-Nov
	Lytton to Texas Creek	8-Oct	3-Nov	1-Oct	11-Nov
	Texas Creek to Kelly Creek	10-Oct	5-Nov	3-Oct	13-Nov
	Kelly Creek to Deadman Creek	13-Oct	8-Nov	6-Oct	16-Nov
	Deadman Creek to Chilcotin River	16-Oct	11-Nov	9-Oct	19-Nov
	Chilcotin River	19-Oct	14-Nov	12-Oct	22-Nov
	Thompson River – Thompson Confluence to Bonaparte	8-Oct	3-Nov	1-Oct	11-Nov
	Thompson River – Bonaparte River to Kamloops Lake	12-Oct	7-Nov	5-Oct	15-Nov

First Nations Licence Types

Communal

- Issued to communities to fish for Food, Social, and Ceremonial purposes

Communal – limited participation

- Issued to 1 or 2 communities at a time for a small number of fishers and/or to harvest a limited number of fish
- Often for fish used during ceremonies

Communal – allowance for sales

- Issued to communities when fish are intended to be sold
- Includes Economic Opportunity, Demonstration, and Harvest Agreement fisheries

ESSR

- Excess Salmon to Spawning Requirements licences are provided to local Nations to harvest all or part of a surplus in terminal area, and authorizes the sale of the surplus