

2024 Fraser River Coho and Chum Stock Assessment and Fishery Summary

Fraser and Approach Salmon Forum
January 28, 2025



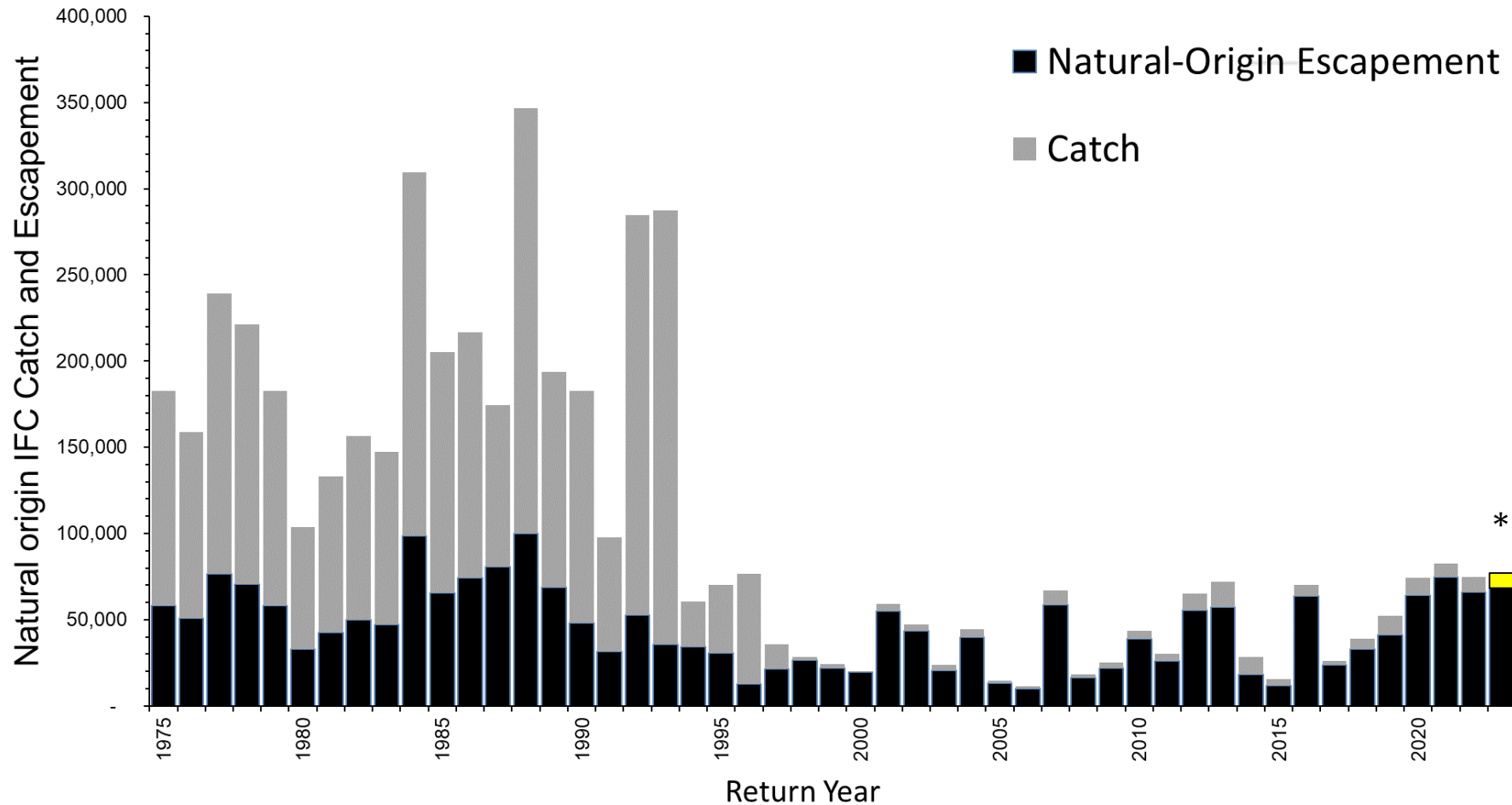
Interior Fraser River Coho - Status

Pacific Salmon Treaty reference points and exploitation rate caps:

	Low	Moderate	Abundant
Survival (CWT Indicator Programs)	$S \leq 0.03$	Three consecutive years $0.03 < S \leq 0.06$	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)

Interior Fraser River Coho - Escapement

While recent (2020-2023) average escapement has been consistently around the pre-90s average, total natural-origin returns remain low, despite low exploitation rate.



Catch: Marine (US and Canadian) & lower Fraser River catch. 2014-2020 includes Interior Fraser Fisheries catch

Interior Fraser River Coho - Escapement

Return Year	Natural- Origin (wild) Escapement	Annual Moderate MU subpopulation target met	Moderate PST <i>Escapement</i> Goal Met in 3 Years?
2015	11,686	No	No
2016	63,725	Yes	No
2017	23,590	No	No
2018	33,065	Yes	No
2019	41,081	Yes	No
2020	64,101	Yes	Yes
2021	74,732	Yes	Yes
2022	66,226	Yes	Yes
2023	68,127	Yes	Yes

2024 assessment for Interior Fraser River Coho is not yet available

Moderate PST Escapement Target: Three consecutive years of greater than 1000 natural-origin spawners in at least half of the sub populations within a CU in each of the 5 CUs

Interior Fraser River Coho – Smolt to Adult Survival

Return Year	CWT Survival	Moderate PST Survival Goal Met in 3 Years?	PST Status
2015	0.7%	No	Low
2016	1.3%	No	Low
2017	1.0%	No	Low
2018	1.4%	No	Low
2019	1.6%	No	Low
2020	1.9%	No	Low
2021	3.2%	No	Low
2022	2.1%	No	Low
2023	2.2%	No	Low

2024 assessment for Interior Fraser River Coho is not yet available

Interior Fraser River Coho - Status

Status for 2024 and likely for 2025:

	Low	Moderate	Abundant
Survival (CWT Indicator Programs)	$S \leq 0.03$	Three consecutive years $0.03 < S \leq 0.06$	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 Catch Summary - Coho

	Coho	
	kept	released
FSC		
<i>Lower Fraser</i>	664	152
<i>BC Interior</i>	128	16
FSC Total	792	168
Economic Opportunity		
<i>Lower Fraser</i>	NA	NA
<i>BC Interior</i>	-	-
Ec Opp Total	0	0
ESSR.		
<i>Lower Fraser</i>	NA	-
<i>BC Interior</i>	-	-
ESSR Total	0	0

*Catch includes Area H and B Chum directed fisheries in PFMA 29.

	Coho	
	kept	released
Recreational		
<i>Lower Fraser</i>	NA	NA
<i>BC Interior</i>	0	0
Rec Total	0	0
Commercial		
<i>Lower Fraser*</i>	0	0
<i>BC Interior</i>	-	-
Comm Total	0	0
Other		
<i>Lower Fraser</i>	25	1
<i>BC Interior</i>	-	-
Other Total	25	1
All Catch		
<i>Lower Fraser</i>	689	153
<i>BC Interior</i>	128	16
All Catch Total	817	169

Fraser River Chum

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

In-season Run Size Estimates

- October 16 preliminary:
 - **1,081,000** (583K-1.99K) (FN1086)
- October 23 final:
 - **1,126,000** (628K-2.12K) (FN1110)



Post-season Assessment

- 2024 escapement assessments are still underway.



Fraser Chum Management Breakpoints

Terminal Run Size	Harvest Plan	Lower Fraser First Nations	Commercial	Recreational
<500,000 in Fraser	<10%	Limited (reduced hours and days/week fishing)	Closed	Mainstem Fraser River closed, restricted openings on tributaries
500,000 to 800,000 in Fraser	Directed fisheries limited to FSC	Normal	Closed	Mainstem Fraser River closed, restricted openings on tributaries
800,000 to 916,000 in Fraser	Catch not to exceed 91,800 (82,800 First Nations* and 9,000 test fishing)	Normal	Closed	Mainstem Fraser River open, restricted openings on tributaries
916,000 to 1,050,000 in Fraser	Commercial catch not to exceed 10% for Chum.	Normal	Open (35,000-105,000)	Open
>1,050,000 in Fraser	Commercial catch not to exceed 15% for Chum.	Normal	Open (105,000 plus)	Open

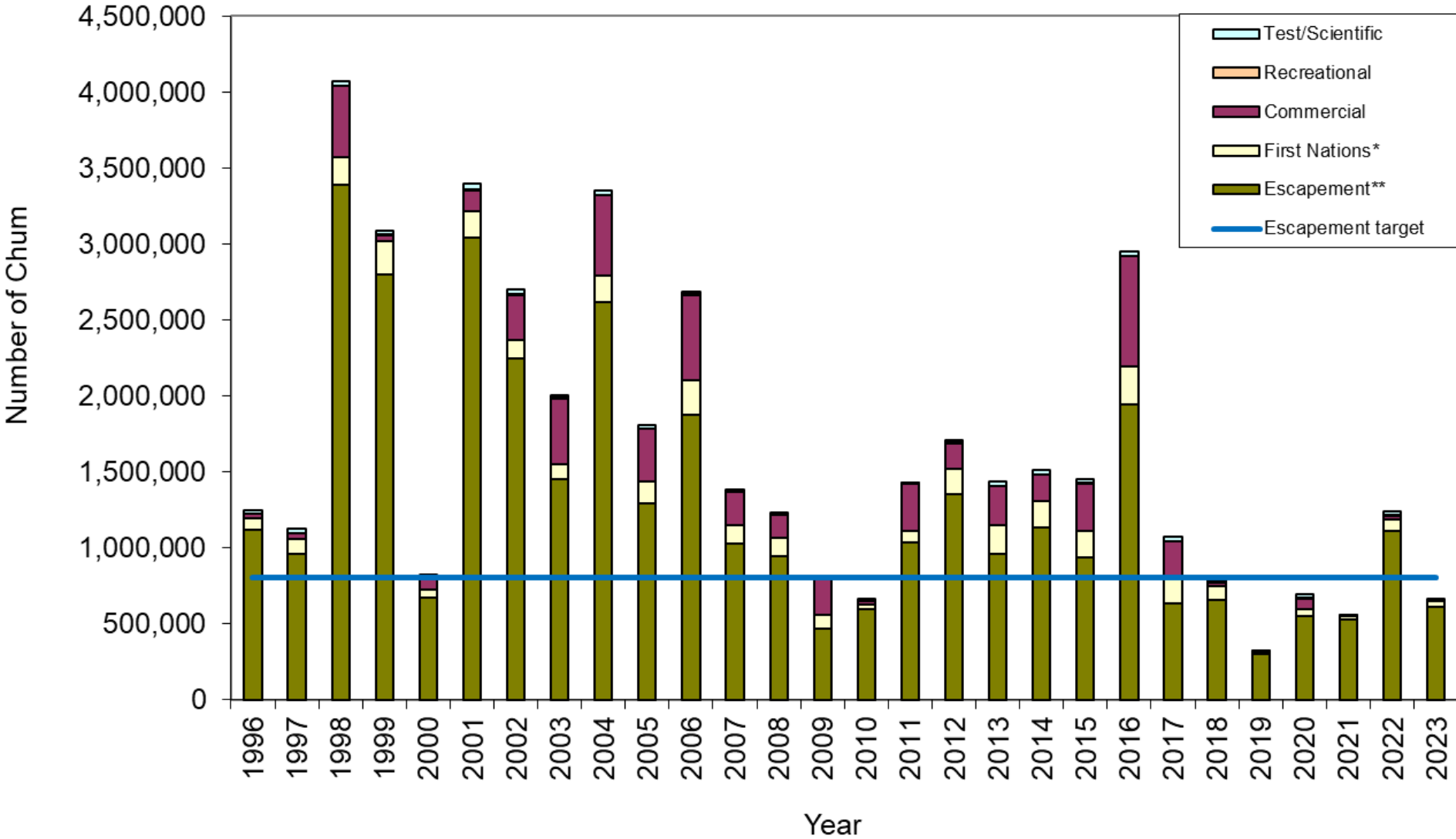
Fraser River Catch Summary - Chum

	Chum	
	kept	released
FSC		
<i>Lower Fraser</i>	27,812	0
<i>BC Interior</i>	-	-
FSC Total	27,812	0
Economic Opportunity		
<i>Lower Fraser</i>	NA	NA
<i>BC Interior</i>	-	-
Ec Opp Total	0	0
ESSR.		
<i>Lower Fraser</i>	NA	-
<i>BC Interior</i>	-	-
ESSR Total	0	0

	Chum	
	kept	released
Recreational		
<i>Lower Fraser</i>	NA	NA
<i>BC Interior</i>	-	-
Rec Total	0	0
Commercial		
<i>Lower Fraser*</i>	0	0
<i>BC Interior</i>	-	-
Comm Total	0	0
Other		
<i>Lower Fraser</i>	10	0
<i>BC Interior</i>	-	-
Other Total	10	0
All Catch		
<i>Lower Fraser</i>	27,822	0
<i>BC Interior</i>	0	0
All Catch Total	27,822	0

*Catch includes Area H and B Chum directed fisheries in PFMA 29.

Preliminary Reconstructed Fraser Chum Pre-terminal Run Size





Questions?



Additional slides

2024 Fraser River Fisheries - Commercial

Chum abundance allowed for directed commercial opportunities in the Fraser River.

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 remained closed in 2024.

Area H – Troll

- Opened Oct. 26 to 30 in Area 29-3, part of 29-4, and 29-6

Area B – Seine

- Opened Nov. 1 and 2 for 12h each day in Area 29 (sub-areas 3, 4, 6, 7, 9, 10)