



# FRASER RIVER COHO

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Forum 2 - February 28, 2023



# Fraser River Coho - Background

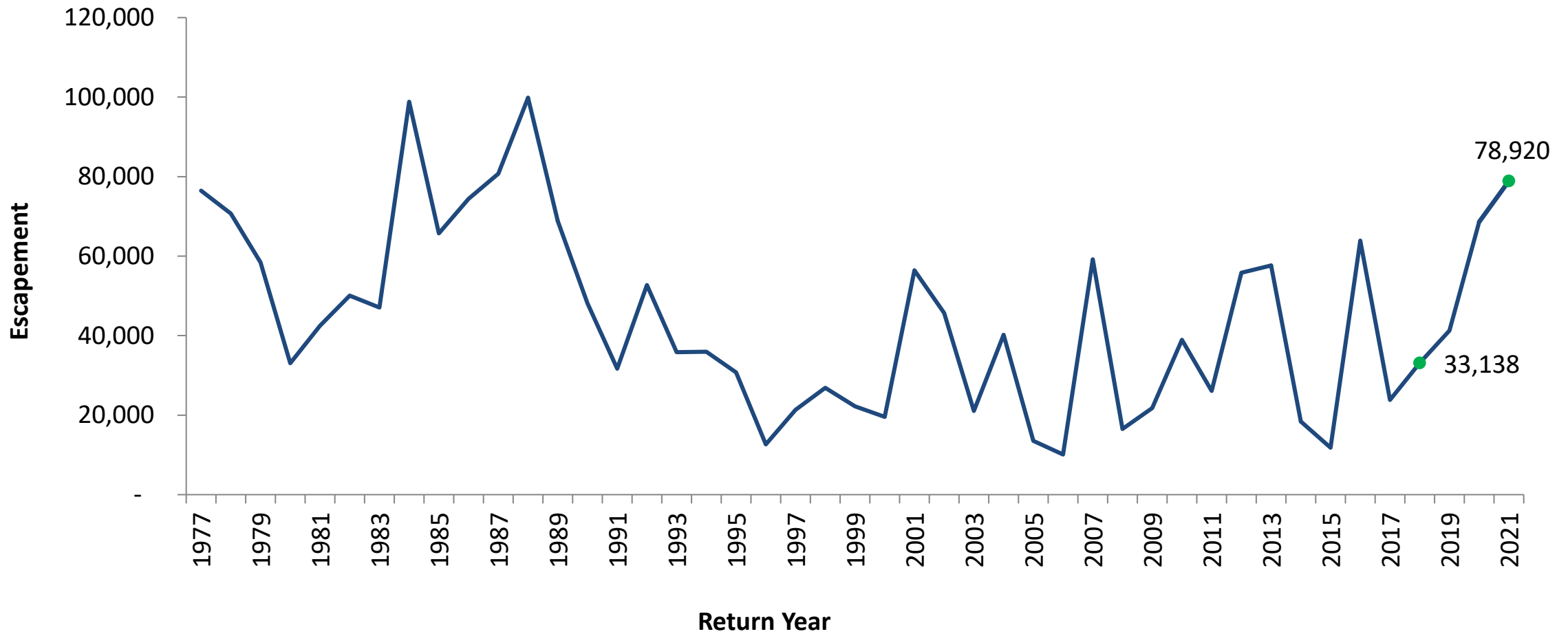
- Coho populations spawn throughout the Fraser.
- Fraser Coho are split into two management units:
  - **I**nterior **F**raser **C**oho (upstream of Hope) and
  - **L**ower **F**raser **C**oho (downstream of Hope).
- Fraser Migration occurs August through November.
- IFC populations have declined dramatically from peak abundances observed in the 1980s.
- Escapement programs and management objectives mostly focus on IFC, but new programs in development for LFC.



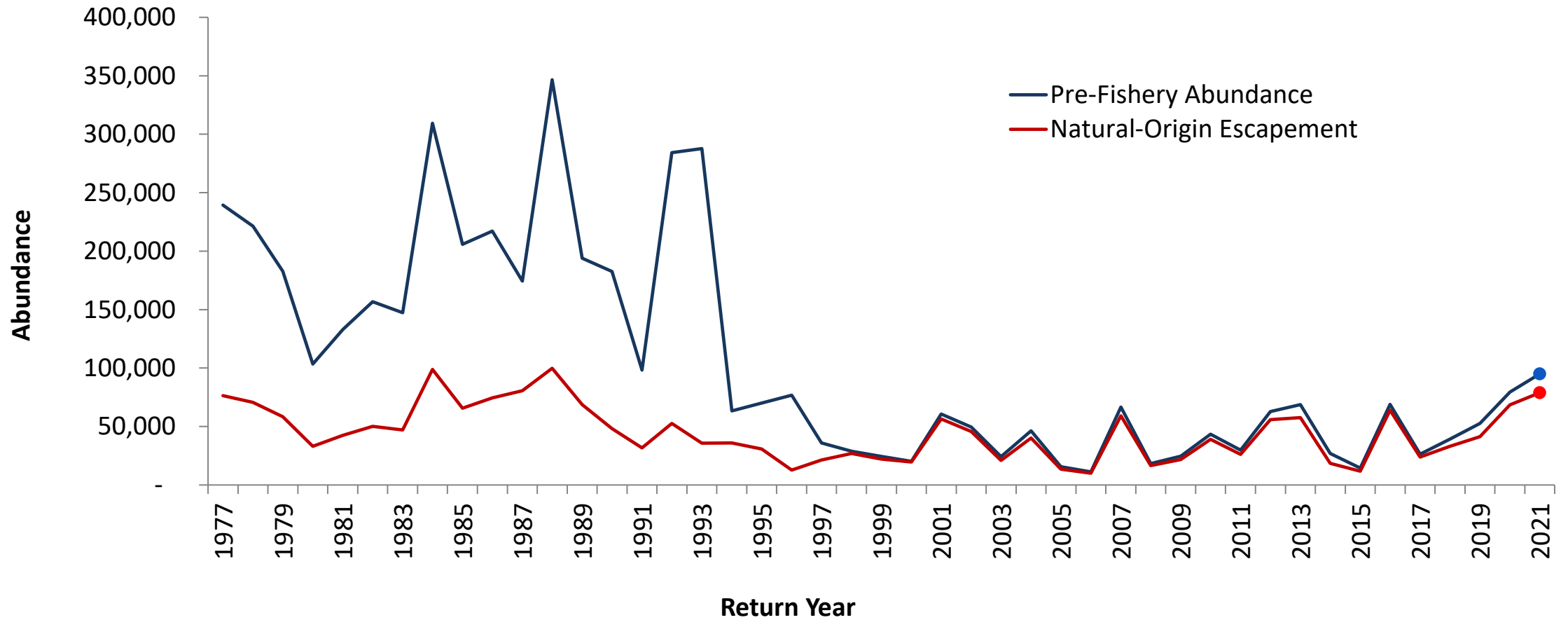
# Fraser River Coho - Background

Summary	IFC	LFC
Stock Assessment Program	Stream Walks CWT	Pilot Modified Mark Recapture Program
PST Designation	Low	n/a
Recent Average Escapement (2010-2021)	~43,000	n/a
COSEWIC Assessment	Threatened (2016)	n/a





# Interior Fraser River - Escapement



# Interior Fraser River - Abundance

# Interior Fraser River Coho - Status

Pacific Salmon Treaty reference points and exploitation rate caps:

	Low	Moderate	Abundant
<b>Survival (CWT Indicator Programs)</b>	$S \leq 0.03$	Three consecutive years $0.03 < S \leq 0.06$	Three consecutive years $S > 0.06$
		and	and
<b>Escapement</b>	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
<b>ER cap (US/Can)</b>	<b>0.20</b> (0.10/0.10)	<b>0.30</b> (0.12/0.18)	<b>0.45</b> (0.15/0.30)

# 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

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

*2022 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 assessment for Interior Fraser River Coho is not yet available*



# Interior Fraser River Coho - Status

Status for 2023:

	Low	Moderate	Abundant
<b>Survival (CWT Indicator Programs)</b>	S ≤ 0.03	Three consecutive years 0.03 < S ≤ 0.06	Three consecutive years S > 0.06
		and	and
<b>Escapement</b>	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
<b>ER cap (US/Can)</b>	<b>0.20</b> (0.10/0.10)	<b>0.30</b> (0.12/0.18)	<b>0.45</b> (0.15/0.30)

# Review

## IFC

- MU will remain in the *Low* status designation for 2023.
- The escapement goal has been met as of 2020.
- The survival goal has yet to be met (i.e., three years of >3.0% smolt-to-adult survival).
  - One year of above 3.0% survival.
  - Two additional years of greater than 3.0% survival needed to move into a moderate status.
- Canadian ER cap in a low status is limited to 10% under the PST.
  - Domestically, DFO manages to between 3-5%.

## LFC

- Assessment program is currently underway.