File: 71007

DRAFT AGENDA PACIFIC SALMON COMMISSION FRASER RIVER PANEL Tuesday July 18, 2023 at 11:00 am. Via Zoom Webinar

https://psc-org.zoom.us/j/88416242194

| 1) | Roll Call (Panel and Tech members, others please email <u>Julie</u> , <u>ehrmantraut@psc.org</u> | <u>g</u>) |
|----|---|---------------|
| 2) | Webinar Etiquette: | |
| | a) Mute Phone: Please mute phone unless you are asking a questionb) Chat feature: Please use for questions regarding the distribution only | |
| 3) | Agenda | |
| 4) | Total catches, Escapements and accounted-to-date relative to pre-season forecasts and in-season adopted run sizes | PSC Staff |
| 5) | In-season data flow for updating objectives | PSC staff |
| | a) Test fishing catches and acoustics | |
| | b) Stock proportions | |
| | c) Environmental conditions | |
| | d) Big Bar update | DFO/PSC staff |
| 6) | Assessments and recommendations | PSC Staff |
| | a) Migration graphs, escapement projections, run size assessments | |
| 7) | Review any decisions on staff recommendations | Panel |
| 8) | Other Business | Panel |
| | a) Test fishing start dates | |
| 9) | Next FRP Meeting, Friday July 21, 11:00 a.m. via Zoom Webinar | Panel |
| | First Technical Committee meeting, Thursday July 20, 1:00 p.m. via Zoom | TC |

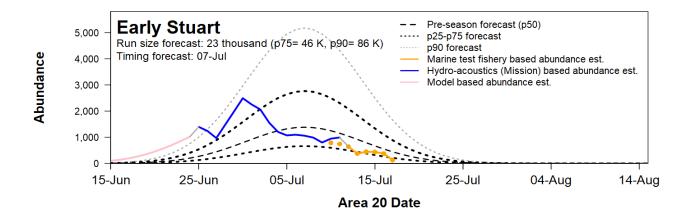
Date: Jul. 18, 2023

2023 Run status of Fraser sockeye and pink salmon

The information presented in this distribution has been prepared by PSC Secretariat staff and should be considered preliminary until reviewed by the Fraser River Panel

| Week of: Jul. 16 - Jul. 22, 2023 | | | Sockeye | | | Pink |
|--|----------|----------|----------------|--------------|-----------|-----------|
| | | Managem | ent Group | | Total | Total |
| | E.Stuart | E.Summer | Summer | Late | Fraser | Fraser |
| Mission passage (inclds Pitt, Alouette, Coquitlam) | 28,500 | 32,400 | 300 | 100 | 61,300 | 0 |
| Catch downstream of Mission | 100 | 600 | 0 | 0 | 700 | 0 |
| Accounted Run To Date | 28,600 | 33,000 | 300 | 100 | 62,000 | 0 |
| Run size adopted in-season ² | na | na | na | na | na | na |
| Run size forecasted pre-season | 23,000 | 186,000 | 1,167,000 | 188,000 | 1,564,000 | 6,135,000 |
| Area 20 timing adopted in-season | na | na | na | na | na | na |
| Area 20 timing expected pre-season | 7/Jul | 6/Aug | 17/Aug | 24/Aug | 16/Aug | 24/Aug |
| Johnstone Str. Diversion Rate | | | In-season 5 | -day average | 18% | na |
| | | Preseaso | on forecast of | annual rate: | 67% | 53% |

 $[\]overline{\,}^2$ Run sizes are usually not adopted until after the peak of the run has passed through marine test fishery areas in Juan de Fuca and Johnstone straits.



2023 Fraser Sockeye Test Fishing & Escapement Summary

| | Johnstone Strait | Juan de Fuca Strait | | | | | Fraser Rive | er | | | |
|-----------|---------------------|------------------------|------------------|-----------|-----------|--------------|-----------------------|---------------------|-----------------------|------------|------------------------|
| Area/Gear | A12 GN | A20 GN* | A29-17 GN | A29-16 GN | Whon CPUE | | Qualark | | Mission H | Hells Gate | |
| Location | Round Is | Port Renfrew | Brownsville | Whonnock | Estimate | GN Catch | Estimate ² | Method ³ | Estimate ⁴ | Method⁵ | Estimates ⁶ |
| From A20 | (-2 days) | (0 days) | Bar ¹ | (+6 days) | (+6 days) | (+8 days) | | | (+6 days) | | (+10 days) |
| 27-Jun | | | | 0 | 0.00 | | | | 600 | Model | |
| 28-Jun | | | | 0 | 0.00 | | | | 700 | Model | |
| 29-Jun | | | | 0 | 0.00 | | | | 900 | Model | |
| 30-Jun | | | | 0 | 0.00 | | | | 1,000 | Model | |
| 1-Jul | | | | 1 | 0.09 | | | | 2,800 | A1+S1+M+A2 | |
| 2-Jul | | | | 0 | 0.00 | 2 | | | 2,000 | A1+S1+M+A2 | |
| 3-Jul | | | | 0 | 0.00 | 3 | | | 800 | A1+S1+M+A2 | |
| 4-Jul | | | | 1 | 0.09 | 7 | | | 1,600 | A1+S1+M+A2 | |
| 5-Jul | | | | 2 | 0.20 | 6 | 1,860 | RB x 2 | 4,200 | A1+S1+M+A2 | 0 |
| 6-Jul | | | | 0 | 0.00 | 9 | 2,941 | RB x 2 | 3,400 | A1+S1+M+A2 | No Count |
| 7-Jul | | | | 0 | 0.00 | 8 | 2,845 | RB x 2 | 4,600 | A1+S1+M+A2 | No Count |
| 8-Jul | | | | 0 | 0.00 | 3 ** | 1,256 | RB + LB | 4,200 | A1+S1+M+A2 | No Count |
| 9-Jul | | | | 0 | 0.00 | 1 ** | 1,715 | RB + LB | 3,300 | A1+S1+M+A2 | 0 |
| 10-Jul | | 57 | | 0 | 0.00 | 2 ** | 2,253 | RB + LB | 2,700 | A1+S1+M+A2 | 0 |
| 11-Jul | 1 | 129 | | 3 | 0.28 | 4 ** | 3,372 | RB + LB | 3,100 | A1+S1+M+A2 | 0 |
| 12-Jul | 6 | 90 | 20 | 0 | 0.00 | 5 (Two sets) | 4,078 | RB + LB | 3,300 | A1+S1+M+A2 | 170 |
| 13-Jul | 2 | 39 | 14 | 3 | 0.29 | 14 ** | 4,082 | RB + LB | 4,500 | A1+S1+M+A2 | 300 |
| 14-Jul | 17 | 48 | 12 | 13 | 1.17 | 9 ** | 4,777 | RB + LB | 3,100 | A1+S1+M+A2 | 370 |
| 15-Jul | 9 | 146 | 19 | 12 | 1.08 | 8 ** | 3,765 | RB + LB | 2,800 | A1+S1+M+A2 | 530 |
| 16-Jul | 2 | 26 | 25 | 29 | 2.45 | 11 ** | 4,754 | RB + LB | 2,700 | A1+S1+M+A2 | 580 |
| 17-Jul | 10 | 15 | 21 | 29 | 2.37 | 4 ** | | | 6,600 | A1+S1+M+A2 | 620 |
| 18-Jul | | | | | | | | | | | |
| 19-Jul | | | | | | | | | | | |

¹ Alternative Lower River Test Fishery - Southern Endowment Fund Project

RB x 2 = Right-bank (RB) x 2

RB + LB = Right-bank (RB) + Left-bank (LB)

A1+S1+M+A2 = Left bank ARIS (A1) + Left bank split-beam (S1) + Mobile split-beam (M) + Right bank ARIS (A2)

Model = Daily abundances generated by the Early Stuart run-size model.

² Qualark escapement estimate - does not include Chilliwack, Pitt, Harrison, Birkenhead, Big Silver, Weaver, and Cultus

³ Qualark source:

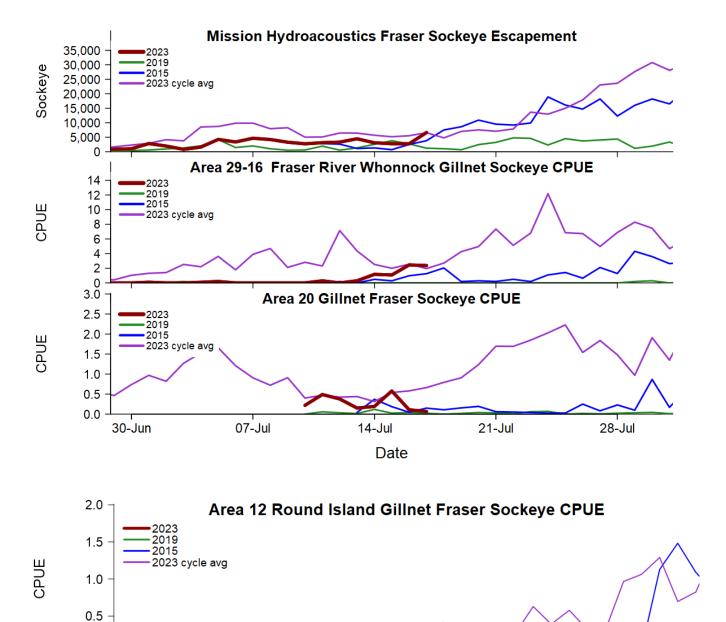
⁴ Mission escapement estimate - does not include Pitt

⁵ Mission source:

⁶ Daily Hells Gate abundance estimate; actual daily count has been expanded.

^{*} Area 20 Gillnet - two boats fishing each day, unless specified otherwise. One boat is fishing with a 5" Alaska twist net, while the other is fishing a 5 1/8" multistrand net.

^{**} Three sets performed for Qualark Gillnet



14-Jul

Date

21-Jul

28-Jul



0.0

30-Jun

07-Jul

2023 Fraser River Sockeye Salmon Stock identification Review

Recent stock composition estimates for sockeye salmon

| rtocom otock | • | | | | | | | | | Fras | er-only St | ock Pro | portions | by Repo | rting Gr | oup ⁴ (%) | | | | | Age (%) |
|------------------------|---------------------|--------------|-------------------|----------|---------|--------|---------|----------|----------|--------|------------|---------|----------|---------|----------|----------------------|---------|---------|--------|-------|--------------------|
| | | | | | | Early | | | | | | | | | | | | | | | Overall |
| | | | | | | Stuart | | Ea | arly Sum | ner | | | | Summe | r | | | Late | Э | | Stocks |
| | | | | | | | | | Nadina | | | | | | | | | | | | |
| | | | | | | | | | Bowron | | | | | | | | | | | | |
| | | | | | | | | Pitt | Gates | | Early | Harri- | | | Raft | | Birken- | | | | |
| | Fishing | | | Sample | | | | Alouette | Nahat- | Early | Summer | son | Late | Chilko | North | Summer | head | Late | | Late | |
| | | | | | | Early | Chilli- | Coquit- | latch | Thomp- | sub- | Widg- | Stuart | Ques- | Thomp- | sub- | Big | Shuswap | Weaver | sub- | |
| Area/Gear ¹ | Sector ² | Date | Type ³ | Size (n) | %Fraser | Stuart | wack | lam | Taseko | son | total | eon | Stellako | nel | son | total | Silver | Portage | Cultus | total | Age-4 ₂ |
| Johnstone S | trait & Que | en Charlotte | Strait | | | | | | | | | | | | | | | | | | |
| A12 at | tf | Jul11-12 | DNA | 7 | 68% | 9% | | | 64% | 28% | 91% | | | | | 0% | | | | 0% | 20% |
| A12 at | tf | Jul13-14 | DNA | 19 | 63% | 0% | 17% | 8% | 75% | | 100% | | | | | 0% | | | | 0% | 14% |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| Juan de Fuc | | | | | | | | | | | | | | | | | | | | | |
| A20 at | tf | Jul10-11 | DNA | 91 | 83% | 21% | 8% | 2% | 66% | | 75% | 4% | | | | 4% | | | | 0% | 22% |
| A20 at | tf | Jul 12 | DNA | 60 | 82% | 13% | 6% | 16% | 62% | | 84% | | 1% | | 2% | 3% | | | | 0% | 22% |
| A20 gn | tf | Jul12-14 | DNA | 57 | 86% | 18% | 6% | 8% | 62% | | 76% | 2% | | | | 2% | | | 4% | 4% | 27% |
| A20 at | tf | Jul13-14 | DNA | 56 | 93% | 2% | 6% | 17% | 71% | | 94% | 2% | 2% | | | 4% | | 0% | | 0% | 10% |
| | | | | | | | | | | | | | | | | | | | | | |
| In-river | | | | | | | | | | | | | | | | | | | | | |
| BB gn | tf | Jul13-14 | DNA | 22 | 100% | 29% | 5% | 5% | 62% | | 71% | | | | | 0% | | | | 0% | 5% |
| BB gn | tf | Jul15-16 | DNA | 43 | 100% | 18% | 14% | 7% | 55% | 2% | 78% | 4% | | | | 4% | | | | 0% | 21% |
| AB gn | tf | Jul13-15 | DNA | 27 | 100% | 31% | 17% | | 51% | | 68% | | | | | 0% | | | 1% | 1% | 30% |
| MA fw | sp | Jul8-10 | DNA | 12 | 100% | 58% | 25% | | 4% | | 29% | | 5% | | | 5% | | | 8% | 8% | NA |

Next Stock ID Samples to Report:

Whonnock TF: Friday FRP (thru Tues Jul 18)
Brownsville TF: Friday FRP (thru Wed Jul 19)
Area 20 GN TF: Friday FRP (thru Mon Jul 17)
Area 12 GN TF: Friday FRP (thru Tues Jul 18)

Age Compositions:

Early Stuart: n = 65 0% Age 4/2 Chilliwack: n = 30 97% Age 4/2 Pitt: n = 30 40% Age 4/2 Nadina: n = 214 6% Age 4/2

Notes for sockeye and pink tables:

BB GN=29_13 (Cottonwood,Brownsville), AT = Alaska Twist, AB GN= 29_16 (Whonnock), MA FW=Matsqui Fish Wheel, QU GN=Qualark

http://www.psc.org/FRPWeb/Escapement/PSC Fraser Sockeye_ Stock Group Definitions.pdf

Results in grey text have been presented to the Panel previously

² TF=sample from test fishery catch, CM=sample from commercial catch, C&S=ceremonial & subsistence catch, FSC=food, social, & ceremonial catch, rec= recreational catch

³ Predictions for sockeye are multinomial extrapolations of current year data to 5 days after the last observation; Predictions for pink salmon are projections of stock compositions based on historic and current data

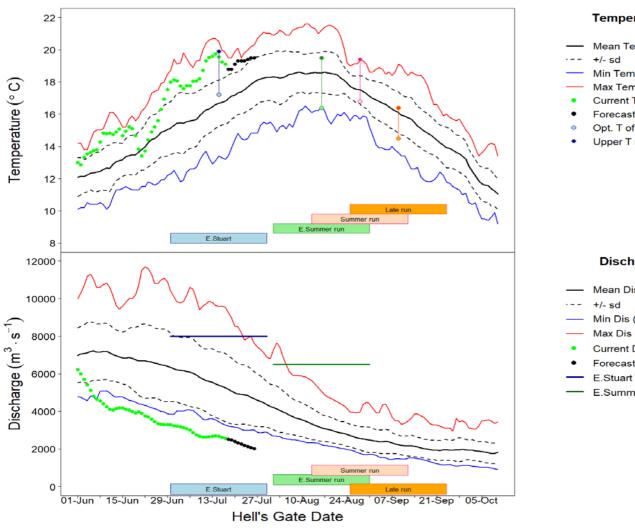
⁴ Further information relating stock group descriptions to spawning ground locations and population definitions can be found at

| Observed Fraser River Temperature at Hope for 17-Jul | 19.1°C |
|--|--------|
| Average (1991-2020) Historical Temperature on this day | 16.8°C |
| Deviation from Average | 2.3°C |
| Forecast Temperature for 23-Jul-23 | 19.3°C |

The forecast in Kamloops is for above average air temperatures to continue until July 24 and to drop to below average for the rest of the forecast period. The forecast for Prince George is for above average air temperature.

| Observed Fraser River Discharge at Hope for 17-Jul | 2556 m ³ ·s ⁻¹ |
|--|--------------------------------------|
| Average (1991-2020) Historical Discharge on this day | 5261 m ³ ·s ⁻¹ |
| % above or below Historical Discharge | -51% |
| Forecast Discharge for 23-Jul-23 | 2196 m ³ ·s ⁻¹ |

The forecast in Kamloops is for 10 mm of precipiatation. The forecast in Prince George is for 7 mm of precipitation.



Temperature Legend

- Mean Temp (1991-2020)
- Min Temp (1991-2020)
- Max Temp (1991-2020)
- **Current Temp**
- Forecast Temp
- Opt. T of stock group*
- Upper T range of stock group**

Discharge Legend

- Mean Dis (1991-2020)
- Min Dis (1991-2020)
- Max Dis (1991-2020)
- **Current Dis**
- Forecast Dis
- E.Stuart Threshold (m³ · s⁻¹)ⁱ
- E.Summer Threshold (m³·s⁻¹)ⁱⁱ

Run timing bars represent a 31 day spread of the run centered around the Hell's Gate date. Hell's gate timing is 5 days from Mission for Early Stuart and Late run; and 4 days from Mission for Early Summer and Summer run.'pMA is the proportional increase to spawning escapement targets to help ensure targets are achieved."%DBE is %difference between estimates of potential spawning escapement and spawning escapement.*This is the optimum temp for aerobic swimming - Toot (Eliason et al. (2011). Science 332: 109-112)**This is the upper range of the optimum temp for aerobic swimming - T_{pejus}. Discharge threshold of 8000cms for Early Stuart from Macdonald (2000). Can. Tech. Rep. Fish. Aquat. Sci. 2315: 120p. "Discharge threshold of 6500cms for Early Summer run from Macdonald et al. (2010). Trans. Am. Fish. Soc. 139: 768-782. 19 days of T & Q data are required to calculate a pMA - 15 days before the Hell's Gate Date and 3 days after. MA estimates can be calculated 4 days after the Area 20 date.

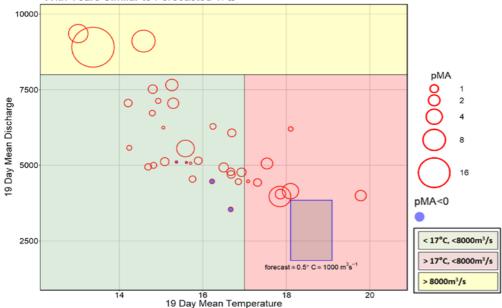
| | | Current Temperatures | | | | |
|------------------|------|------------------------------|------------|------------------|---|---------------------|
| Upriver of Slide | Map# | 16-Jul | Daily Mean | Historic Mean | Deviation from Historical Mean | Historic Year Range |
| | | Fraser River Mainstem | | | | |
| | 1 | Fraser River @ Hope | 19.2 | 16.7 | 2.5 | 1991-2020 |
| | 2 | Fraser River @ Texas Creek | 18.6 | 16.7 | 1.9 | 2006-2022 |
| | 3 | Fraser River @ Big Bar Creek | NA | NA | NA | 2019-2022 |
| • | 4 | Fraser River @ Marguerite | 17.6 | 16.5 | 1.1 | 2015-2022 |
| • | 5 | Upper Fraser @ Shelley | 16.0 | 13.7 | 2.3 | 1994-2022 |
| | | Fraser River Tributaries | | | | |
| | 6 | Thompson R. @ Ashcroft | 19.9 | 15.9 | 4.0 | 1995-2022 |
| | 7 | South Thompson @ Chase | 19.8 | 16.8 | 3.0 | 1994-2022 |
| | 8 | North Thompson @ McLure | 16.9 | 13.7 | 3.2 | 2006-2022 |
| • | 9 | Quesnel R. @ Quesnel | 15.4 | 14.8 | 0.6 | 2000-2022 |
| • | 10 | Nechako R. @ Isle Pierre | NA | 19.0 | NA | 2006-2022 |
| • | 11 | Stuart R. @ Ft. St. James | 18.1 | 17.8 | 0.3 | 2000-2022 |

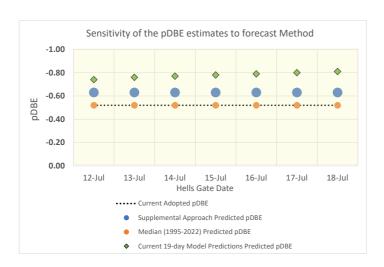


Early Stuart pDBE Forecast and Sensitivity Analysis for July 18, 2023

Based on the retrospective analysis evaluation of 2010-2021 for Early Stuart the best performing in-season model is the Supplemental Approach



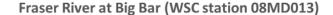


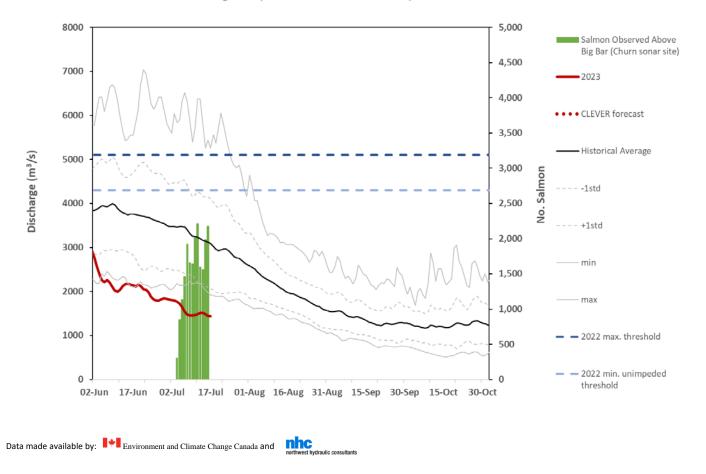


| Retrospectiv | | d on "In-season pD | DE Approach | | Best | 2 | 3 |
|--------------|------------|--------------------|-----------------------------|---------|----------------|-------------|-------------|
| netrospecti | | | | | | | Current 19- |
| | | | | Current | Supplemental | Median | day Model |
| | | | | Adopted | Approach | (1995-2022) | Predictions |
| | Hells Gate | Average | Average | | | Predicted | Predicted |
| Area 20 Date | Date | Temperature ºC | Discharge m ³ /s | pDBE | Predicted pDBE | pDBE | pDBE |
| 01-Jul | 12-Jul | 18.2 | 2966 | -0.52 | -0.63 | -0.52 | -0.74 |
| 02-Jul | 13-Jul | 18.4 | 2930 | -0.52 | -0.63 | -0.52 | -0.76 |
| 03-Jul | 14-Jul | 18.5 | 2891 | -0.52 | -0.63 | -0.52 | -0.77 |
| 04-Jul | 15-Jul | 18.6 | 2850 | -0.52 | -0.63 | -0.52 | -0.78 |
| 05-Jul | 16-Jul | 18.6 | 2807 | -0.52 | -0.63 | -0.52 | -0.79 |
| 06-Jul | 17-Jul | 18.7 | 2763 | -0.52 | -0.63 | -0.52 | -0.80 |
| 07-Jul | 18-Jul | 18.7 | 2717 | -0.52 | -0.63 | -0.52 | -0.81 |
| Implied pMA | | | | | | | |
| 07-Jul | 18-Jul | 18.7 | 2717 | 1.08 | 1.70 | 1.08 | 4.26 |

^{*} Currently adopted timing with updated forecast information (15 observed and 4 forecast days)

Fraser River Discharge at Big Bar



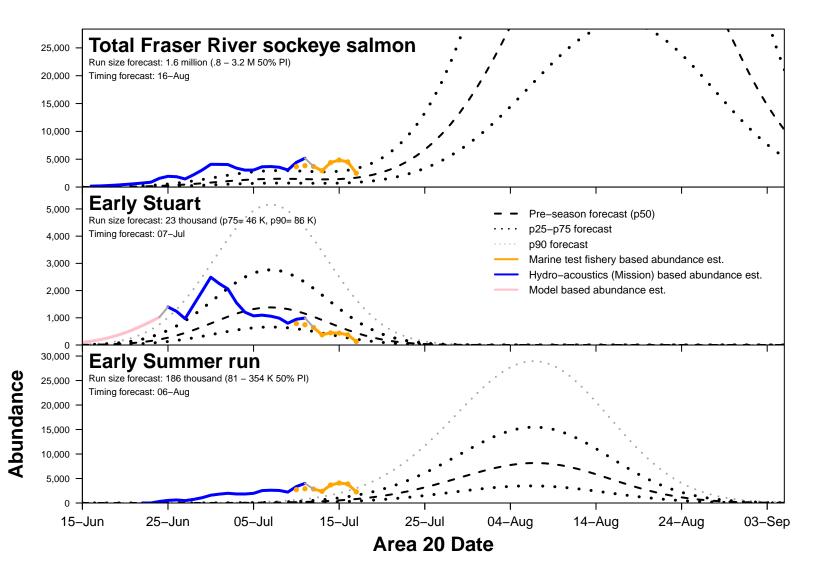


Migration passage at Big Bar

Big Bar Update

- There have been no upstream migration problems reported at Big Bar.
- A total of 20,490 salmon have been observed 40 km upstream of Big Bar (Churn Creek).
- Using a length-based estimate to differentiate Chinook and sockeye, 6,235 sockeye have migrated past Churn sonars up until July 15 (Note: lengths of Chinook and sockeye at the Matsqui fishwheel are highly overlapping in the range of 60-70 cm).
- A total of 40 sockeye have been collected for broodstock.
- A total of 94 sockeye have been tagged.

2023 Fraser River sockeye salmon daily migration



Date: 2023-07-18, Time: 09:48 SW

Current date: 18-Jul

- 2015 diversion rate (69%)

2023 Fraser River sockeye abundance en-route to Mission

| | Escapement | | Projected abundance en route to Mission based on marine test fishery data 1,2 | | | | | | | | | | |
|------------------------------------|----------------|--------|---|--------|--------|--------|--------|--------|--------------------------------|--------|----------------|--|--|
| Area 20 date | past Mission | 12-Jul | 13-Jul | 14-Jul | 15-Jul | 16-Jul | 17-Jul | Total | 80% Pl ³ 10p 90p | | projections | | |
| Mission date | through 17-Jul | 18-Jul | 19-Jul | 20-Jul | 21-Jul | 22-Jul | 23-Jul | Total | | | through 23-Jul | | |
| Total Fraser | 61,300 | 4,000 | 1,800 | 2,700 | 8,500 | 3,200 | 1,700 | 21,900 | 10,900 | 44,700 | 83,200 | | |
| Early Stuart | 28,500 | 600 | 200 | 300 | 900 | 200 | 100 | 2,300 | 1,100 | 4,800 | 30,800 | | |
| Early Summer Run | 32,400 | 3,200 | 1,500 | 2,300 | 7,000 | 2,900 | 1,600 | 18,500 | 9,100 | 38,300 | 50,900 | | |
| Chilliwack | 14,700 | 200 | 100 | 100 | 500 | 400 | 200 | 1,500 | 700 | 3,100 | 16,200 | | |
| Pitt/Alouette/Coquitlam | 1,000 | 500 | 200 | 300 | 1,000 | 300 | 200 | 2,500 | 1,200 | 5,200 | 3,500 | | |
| Nadina/E.Thomp. group ⁴ | 16,700 | 2,500 | 1,200 | 1,900 | 5,500 | 2,200 | 1,200 | 14,500 | 7,100 | 30,000 | 31,200 | | |
| Summer Run | 300 | 100 | 100 | 100 | 400 | 100 | 0 | 800 | 500 | 1,200 | 1,100 | | |

¹ En route catches are incomplete: catches from present and future fisheries must be deducted from projections and added to the catches removed

2023 Fraser River sockeye diversion rates through Johnstone Strait

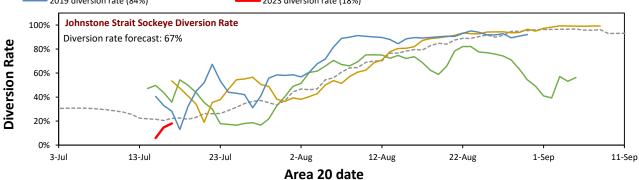
5-day-average
Diversion rate

18%

----- Preseason planning estimates (67%)

2011 diversion rate (62%)

2023 diversion rate (18%)



² Projected abundances en route to Mission include Harrison and Late runs, an uncertain number of which are expected to delay

³ 80% Probabability Interval: there exists an 80% chance that the true abundance lies within this interval

⁴ Nadina / Bowron / Gates / Nahatlatch / Taseko / Early South Thompson / North Barriere

2023 Fraser River run size and timing estimates

The information presented on this page has been prepared by PSC Secretariat Staff. All in-season estimates of run size and timing should be considered draft preliminary estimates unless adopted by the Fraser River Panel.

Preseason forecasts, inseason estimates, and official estimates of run size and associated timing

| | | | | Run | Size | | | Rur | size compon | ents | | | Run | Timing ¹ | | |
|-------------------------|---------------------|-----------------------|--------|--------------|---------|------------|----------|-----------------------|-------------|----------------------|---------------------|-----------------------|----------------------|---------------------|----------|----------|
| | Inseason Adopted | Preseason Forecast | Inseas | son estimate | Inseaso | 1 80% PIs² | Method | Catch + Escapement | 6-day | Seaward Abundance | Inseason Adopted | Preseason Forecast | Inseason estimate | Inseason | 80% PIs² | Method |
| | Adopted | Torecast | | | 10% PI | 90% PI | | Escapement | 110,000. | Abundance | Adopted | · o.ccasc | cstimate | 10% PI | 90% PI | |
| Early Stuart Run | NA | 23,000 | • | 31,000 | 30,000 | 33,000 | Recon(2) | 29,000 | 2,000 | 0 | NA | 07-Jul | 01-Jul | 01-Jul | 01-Jul | Recon(2) |
| Early Summer Run | NA | 186,000 | | | | | | 33,000 | 18,000 | | NA | 06-Aug | | | | |
| E.Summers excl. E.Thomp | | 125,000 | | | | | | 33,000 | 18,000 | | | 05-Aug | | | | |

¹ Run timing refers to the date when 50% of the run migrated past the Area 20 reference point.

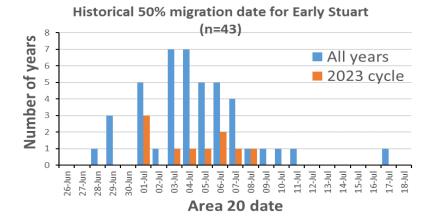
Methods for run size & timing estimation

Recon(2) Catch + escapement + model projections

Run Size Uncertainty Legend⁴

- ✓ ≥ 95% of the run size has been accounted for in catch + escapement. Clear indication of run size; minor run size updates still expected
- ≥ 70% of the run size has been accounted for in catch + escapement. Good indication of run size; peak fo the run has been observed at Mission, uncertainty relates to seaward abundance
- ▲ ≥ 50% of the run size has been accounted for in catch + escapement. Decent indication of run size; ≥ 50% confirmed at Mission
- < 50% of the run size has been accounted for in catch + escapement. Uncertain or early indciation of run size based on marine data</p>

⁴ The **Run Size Uncertainty Indicator** is a categorical indication of the degree of uncertainty present in the run size estimate. Estimates are categorized quantitatively based on the proportion of the run that has been accounted for with high certainty in catch + escapement.



² 80% Probability Interval: there exists an 80% chance that the true abundance lies within this interval

³ Normally based on test fishery data. Based on Model if Method = Recon(2).

Upcoming Test Fishing Start Dates 2023

| | Test Fishery | Start Date |
|---------------------|-------------------------------|------------|
| aters | Area 20 Purse Seine | July 21 |
| Panel Waters | Cottonwood | July 26 |
| Ра | Area 7 Reefnet | TBD |
| Non-Panel Waters | Area 12 Blinkhorn Purse Seine | July 20 |