File: 71007

DRAFT AGENDA
PSC Fraser River Panel Meeting
Via Zoom Webinar: https://psc-org.zoom.us/j/85284137826

FRP meeting: Friday, July 11, 2025 at 11 am

	1)	Roll Call (Panel and Tech members, others please email Angela Xu, frontdesk@psc.org)	5 min	
	2)	Webinar Etiquette: mute phone & chat feature	2 min	
☑	3)	Agenda	5 min	
	4)	**Overview of run and catch status**	5 min	PSC staff
☑		a) Accounted run to date relative to forecast and adopted run sizes		
☐		b) Catch-to-date by fishery		
☐		c) Release mortalities		
☐		d) TAC table		
	5)	**Biological information**	20 min	PSC staff
☑		a) Test fishing catches and acoustics summary		
☐		b) Comparison of predictions from Mission to Qualark and Big Bar		
☐		c) Species composition review		
☑		d) Stock Identification review		
		e) Management Adjustment (MA) considerations		
☑		i) Environmental report		
☐		ii) pDBE forecast and sensitivity analysis		
☑		iii) Current temperatures in areas of the Fraser Watershed		
☑		iv) TNG Taskforce Update		
☐		v) Report on fish condition		DFO
☐		vi) Spawning ground reports		DFO
	6)	**Assessment information**		PSC staff
☐		a) Daily migration graphs		
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☐		e) Run size and timing estimates		
☐		f) Predicted allowable harvest based on run size and DBE scenarios		
☐		g) Criteria for fishing decisions table		
☐		h) Catch evaluation		
	7)	**Recommendations on run size, migration timing and MA**		
☑		a) PSC recommendations		PSC staff
		b) Canadian and/or U.S. recommendations		Panel
		c) Panel decision		
	8)	**Fisheries recommendations**		
		a) Canadian and U.S. proposals		Panel
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☑	9)	Assessments from other areas	5 min	PSC staff
☑	10)	Other business: Weekly Report	5 min	Panel
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☑	13)	Data acknowledgements		

Legend: ☑ Content included in the distribution
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4a. Accounted run to date relative to forecast and adopted runsizes

2025 Run status of Fraser sockeye and pink salmon

Date: Jul. 11, 2025

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. 6 - Jul. 12, 2025	Sockeye				
	Management Group				Total
	E.Stuart	E.Summer	Summer	Late	Fraser
Mission passage (inclds Pitt, Alouette, Coquitlam)	302,900	6,800	0	0	309,700
Catch downstream of Mission	600	0	0	0	600
Accounted Run To Date	303,500	6,800	0	0	310,300
Run size adopted in-season [1]	**na**	**na**	**na**	**na**	**na**
Run size forecasted pre-season	116,000	221,000	2,136,000	468,000	2,941,000
Area 20 timing adopted in-season	**na**	**na**	**na**	**na**	**na**
Area 20 timing expected pre-season	8/Jul	3/Aug	15/Aug	20/Aug	14/Aug
Johnstone Str. Diversion Rate				Annual average to date	**na**
				Preseason forecast of annual rate:	64%

[1] *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.*

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5a. Test fishing catches and acoustics summary

2025 Fraser Sockeye Test Fishing & Escapement Summary

			Fraser River								
Area/Gear Location From A20	A12 GN Round Is (-2 days)	A20 GN* Port Renfrew (0 days)	A29-17 GN Brownsville Bar (+5 days)	A29-16 GN Whonnock (+6 days)	Whon CPUE Estimate (+6 days)	GN Catch (+8 days)	Qualark Estimate[1]	Method[2]	Mission Hydroacoustics Estimate[3] (+6 days)	Method	Hells Gate Estimates[4] (+10 days)
20-Jun											
21-Jun											
22-Jun											
23-Jun											
24-Jun											
25-Jun				0	0.00						
26-Jun				0	0.00						
27-Jun				0	0.00						
28-Jun				0	0.00						
29-Jun				0	0.00						
30-Jun				0	0.00						
1-Jul				0	0.00		796	RB x 2	#N/A	No Estimate	
2-Jul				0	0.00	3	1,610	RB x 2	#N/A	No Estimate	
3-Jul				0	0.00	11	2,385	RB + LB	#N/A	No Estimate	
4-Jul				3	0.29	13	2,284	RB + LB	13,900	Ttl HA salmon minus other species:	30
5-Jul				45	3.56	10	2,570	RB + LB	37,500	Ttl HA salmon minus other species:	No Count
6-Jul				51	4.14	9	4,556	RB + LB	36,800	Ttl HA salmon minus other species:	590
7-Jul				43	3.50	47	22,629	RB + LB	46,600	Ttl HA salmon minus other species:	1,250
8-Jul	40			17	1.48	98	37,945	RB + LB	53,900	Ttl HA salmon minus other species:	20,110
9-Jul	18			16	1.50	91	42,111	RB + LB	48,400	Ttl HA salmon minus other species:	28,600
10-Jul	69	313	207	58	4.65				72,700	Ttl HA salmon minus other species:	26,210
11-Jul											
12-Jul											

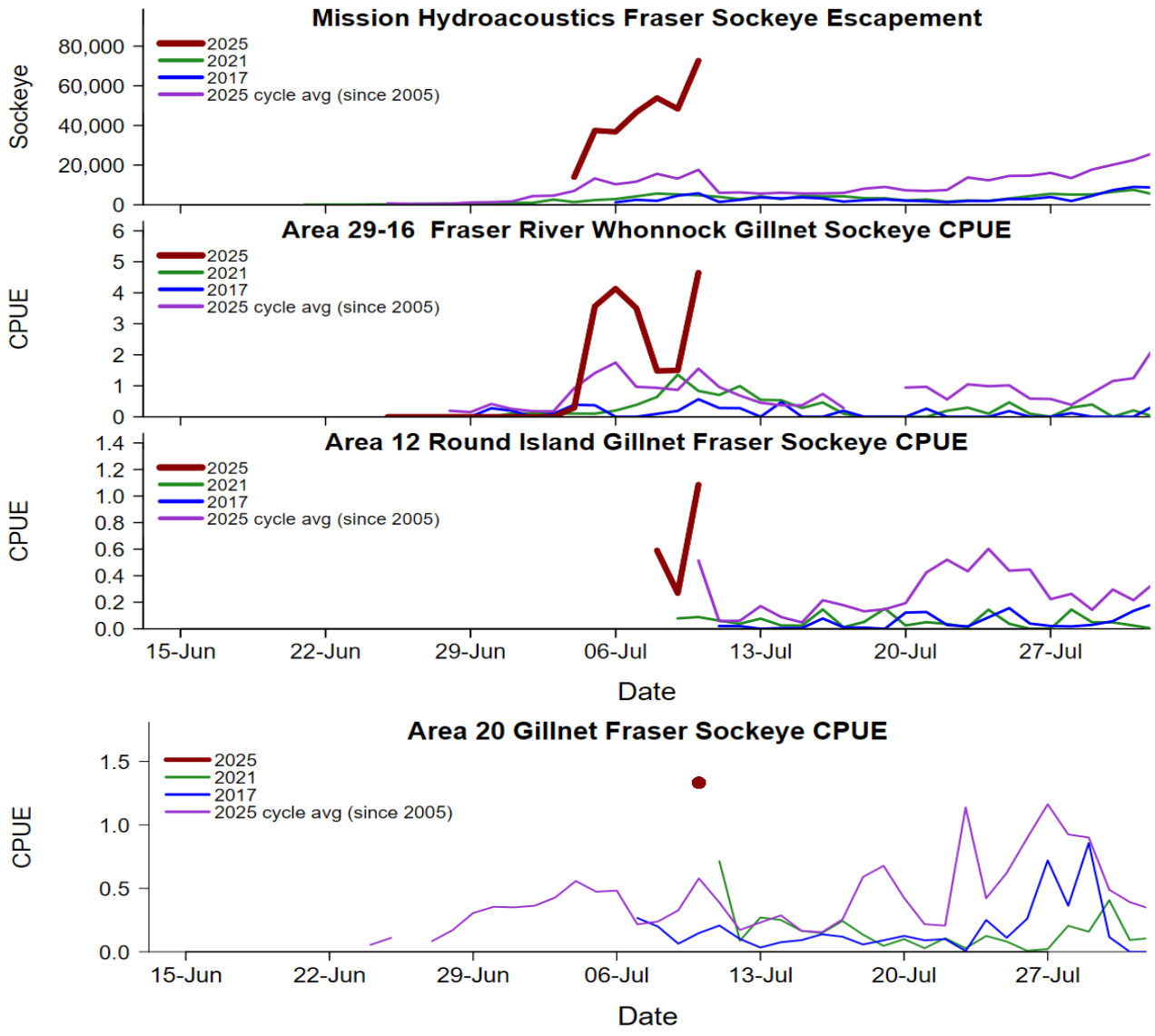
[1] Qualark escapement estimate - does not include Chilliwack, Pitt, Harrison, Birkenhead, Big Silver, Weaver, and Cultus.

[2] Qualark source: RB x 2 = Right-bank (RB) x 2 *RB + LB = Right-bai* *RB + LB = Right-bank (RB) + Left-bank (LB)*

[3] Mission escapement estimate - does not include Pitt

[4] Daily Hells Gate abundance estimate; actual daily count has been expanded.

* Two vessels fishing


Mission Hydroacoustics Fraser Sockeye Escapement
Sockeye
80,000
60,000
40,000
20,000
0
2025
2021
2017
2025 cycle avg (since 2005)
Area 29-16 Fraser River Whonnock Gillnet Sockeye CPUE
CPUE
6
5
4
3
2
1
0
Area 12 Round Island Gillnet Fraser Sockeye CPUE
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
15-Jun
22-Jun
29-Jun
06-Jul
13-Jul
20-Jul
27-Jul
Date

Area 20 Gillnet Fraser Sockeye CPUE
CPUE
1.5
1.0
0.5
0.0
2025
2021
2017
2025 cycle avg (since 2005)
15-Jun
22-Jun
29-Jun
06-Jul
13-Jul
20-Jul
27-Jul
Date

5d. Fraser River Sockeye Salmon Stock identification Review

Recent stock composition estimates for sockeye salmon

Fishing				Sample		Fraser-only Stock Proportions by Reporting Group[4] (%)													Age (%)
						Early Stuart	Early Summer					Summer					Late				Overall Stocks
Area/Gear[1]	Sector[2]	Date	Type[3]	Size (n)	%Fraser	Early Stuart	Chilli-wack	Pitt Alouette Coquit-lam	Nadina Bowron Gates Nahat-latch Taseko	Early Thomp-son	Early Summer sub-total	Harri-son Widg-eon	Late Stuart Stellako	Chilko Ques-nel	Raft North Thomp-son	Summer sub-total	Birken-head Big Silver	Late Shuswap Portage	Weaver Cultus	Late sub-total	Age-4$_2$
Johnstone Strait & Queen Charlotte Strait																					
Juan de Fuca Strait & Washington & Other																					
In-river																					
AB gn	tf	Jul4-9	Scales	149	100%	**98%**	1%		1%		**2%**					**0%**				**0%**	99%

Next Stock ID Samples to Report for Tues FRP:

Whonnock TF: thru Sun Jul 13
Brownsville TF: thru Sat Jul 12
Area 20 GN TF: thru Sat Jul 12
Area 12 GN TF: thru Fri Jul 11

First pink salmon stock composition sample results will be reported to FRP on Tues Aug 12 (both Area 12 PS TF and Area 20 PS TF).

Notes for sockeye and pink tables:

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

[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 http://www.psc.org/FRPWeb/Escapement/PSC_Fraser_Sockeye_Stock_Group_Definitions.pdf

Results in grey text have been presented to the Panel previously

5ei. Environmental report

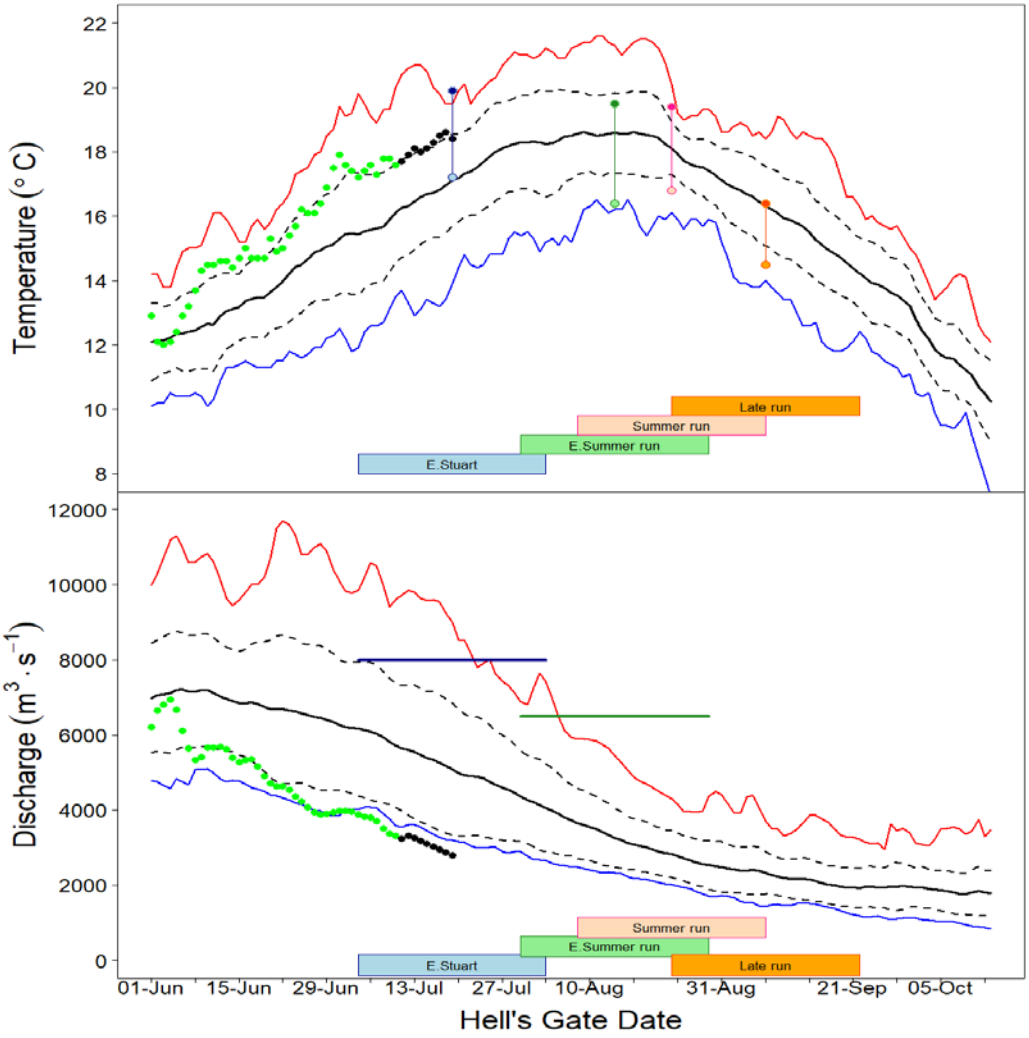
Fraser River Environmental Report for July 10, 2025

Observed Fraser River Temperature at Qualark for 10-Jul	17.6°C
Average (1991-2020) Historical Temperature on this day	16.1°C
Deviation from Average	1.5°C
Forecast Temperature for 16-Jul-25	18.3°C

The forecast in Kamloops is for above average temperatures until July 17, and near average for the rest of the period, and Prince George is for below average temperatures until July 11, and above average for the rest of the period.

Observed Fraser River Discharge at Hope for 10-Jul	3318 $m^3 \cdot s^{-1}$
Average (1991-2020) Historical Discharge on this day	5722 $m^3 \cdot s^{-1}$
% above or below Historical Discharge	-42%
Forecast Discharge for 16-Jul-25	3021 $m^3 \cdot s^{-1}$

The forecast in Kamloops and Prince George is for 7 mm and 16 mm precipitation, respectively.



Temperature Legend

- Mean Temp (1991-2020)
- +/- sd
- 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)
- +/- sd
- Min Dis (1991-2020)
- Max Dis (1991-2020)
- Current Dis
- Forecast Dis
- E.Stuart Threshold ($m^3 \cdot s^{-1}$)[i]
- E.Summer Threshold ($m^3 \cdot s^{-1}$)[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 betweeen estimates of potential spawning escapement and spawning escapement.*This is the optimum temp for aerobic swimming - T_{opt} (Eliason et al. (2011). Science 332: 109-112)**This is the upper range of the optimum temp for aerobic swimming - T_{pejus}. [i]Discharge threshold of 8000cms for Early Stuart from Macdonald (2000). Can. Tech. Rep. Fish. Aquat. Sci. 2315: 120p. [ii]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.

5eiii. Current temperatures in areas of the Fraser Watershed

Map #	Current Temperatures 09-Jul	Daily Mean	Historic Mean	Deviation from Historical Mean	Historic Year Range
	Fraser River Mainstem				
1	Fraser River @ Qualark	**17.8**	**15.9**	**1.9**	**1991-2020**
2	Fraser River @ Texas Creek	**17.1**	**16.2**	**0.8**	**2006-2024**
3	Fraser River @ Marguerite	**16.7**	**17.1**	**-0.4**	**2015-2024**
4	Upper Fraser @ Shelley	**13.9**	**13.3**	**0.6**	**1994-2024**
	Fraser River Tributaries				
5	Thompson R. @ Ashcroft	**16.8**	**15.2**	**1.5**	**1995-2024**
6	South Thompson @ Chase	**16.9**	**16.1**	**0.8**	**1994-2024**
7	North Thompson @ McLure	**14.2**	**13.3**	**0.9**	**2006-2023**
8	Quesnel R. @ Quesnel	**16.0**	**14.2**	**1.7**	**2000-2024**
9	Nechako R. @ Isle Pierre	**17.4**	**18.6**	**-1.2**	**2006-2024**
10	Stuart R. @ Ft. St. James	**16.8**	**17.3**	**-0.6**	**2000-2024**

5eiv. TNG-led Emergency Salmon Task Force Update

Background:

- TNG taskforce has provided PSC Secretariat an early draft of their first in-season report which will be reviewed with the technical committee next Thursday, July 17
- The TNG/taskforce post-season analysis reports that salmon populations were significantly impacted by the 2024 Chilcotin landslide, and turbidity was the driving factor that resulted in physical damage, migration delay and associated cumulative stressors that resulted in significant en-route mortality rates and low spawner returns (as described in previous TNG presentations) (Seminar #25: Tŝilhqox Landslide: Implications for Salmon in 2025 and Beyond - Pacific Salmon Commission).
- As indicated by the July 10, 2025 TNG taskforce report, the Chilcotin landslide event has resulted in continued elevated turbidity downstream of the slide, also impacting the Fraser mainstem downstream of the confluence, and salmon are currently in the system.
- This early report points to the relevance of this ongoing monitoring data to inform our collective understanding of in-season conditions and relevance to in-season management.
- A monitoring program has been put in place for the 2025 season which includes monitoring returning salmon stocks and associated environmental conditions.
- A map of the current monitoring programs on the Chilcotin (Figure 1) as well as pictures depicting water quality (Figure 2, 3 and 4) are provided below.
- Weekly updates from the TNG taskforce will be provided to the Panel every Friday

Figure 1. TNG Annual Stock Assessment and Slide Response Programs (2025).

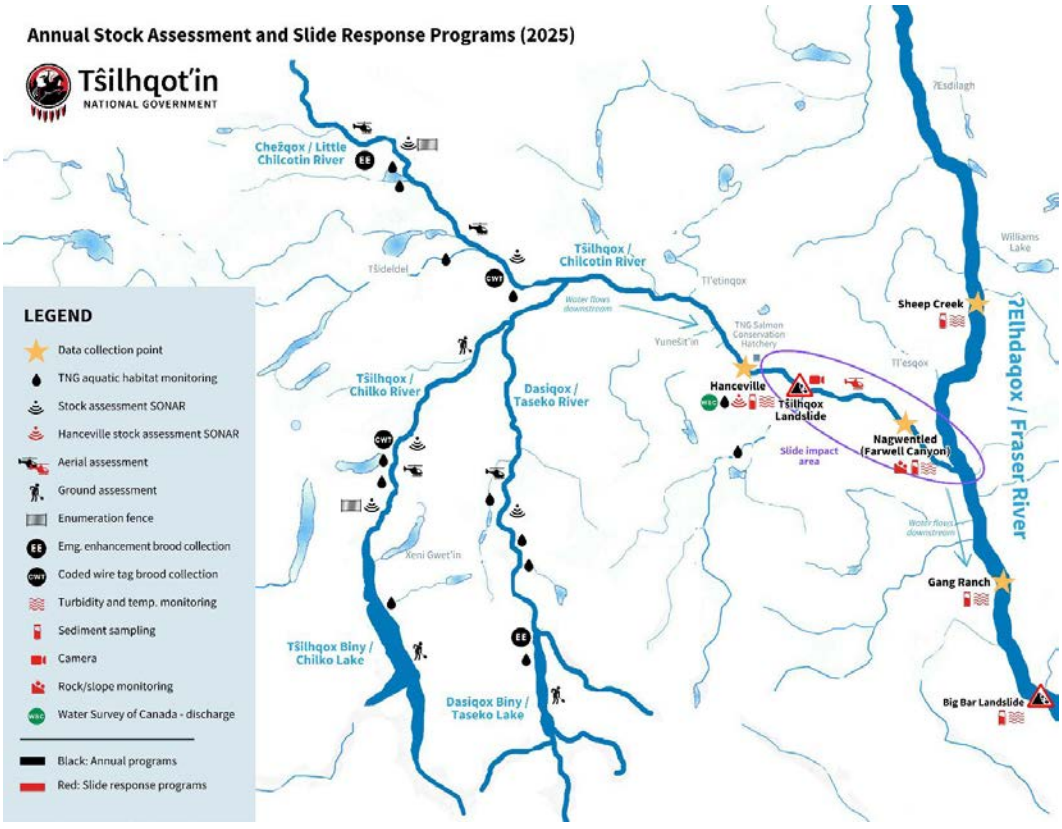


Figure 2. Water quality conditions upstream of the slide impact area (left, Hanceville) and downstream of the slide impact area (right, Farwell Canyon) captured on July 01, 2025**.**

Figure 3. Recent bank movement at the landslide area. Photo on the left captured June 10, 2025 and photo on the right captured July 04, 2025.

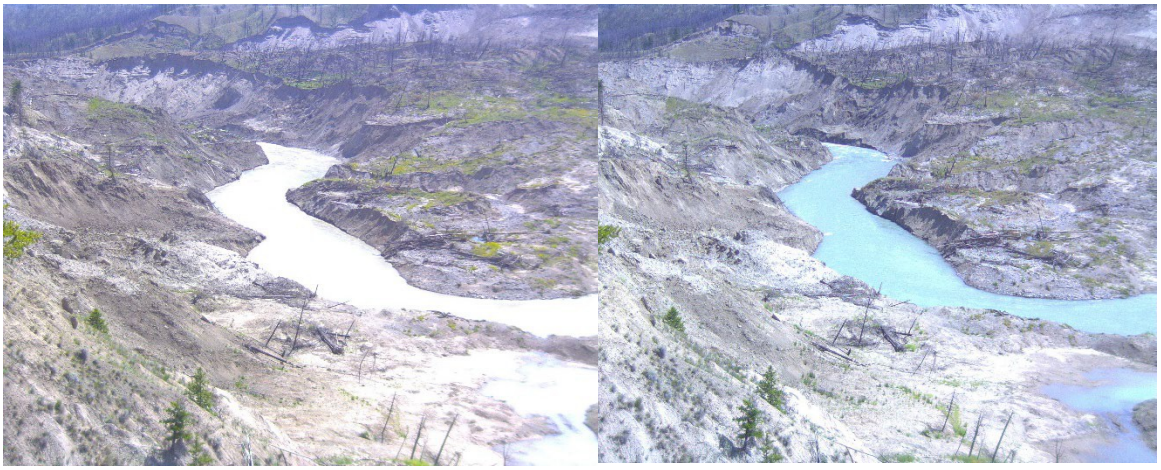
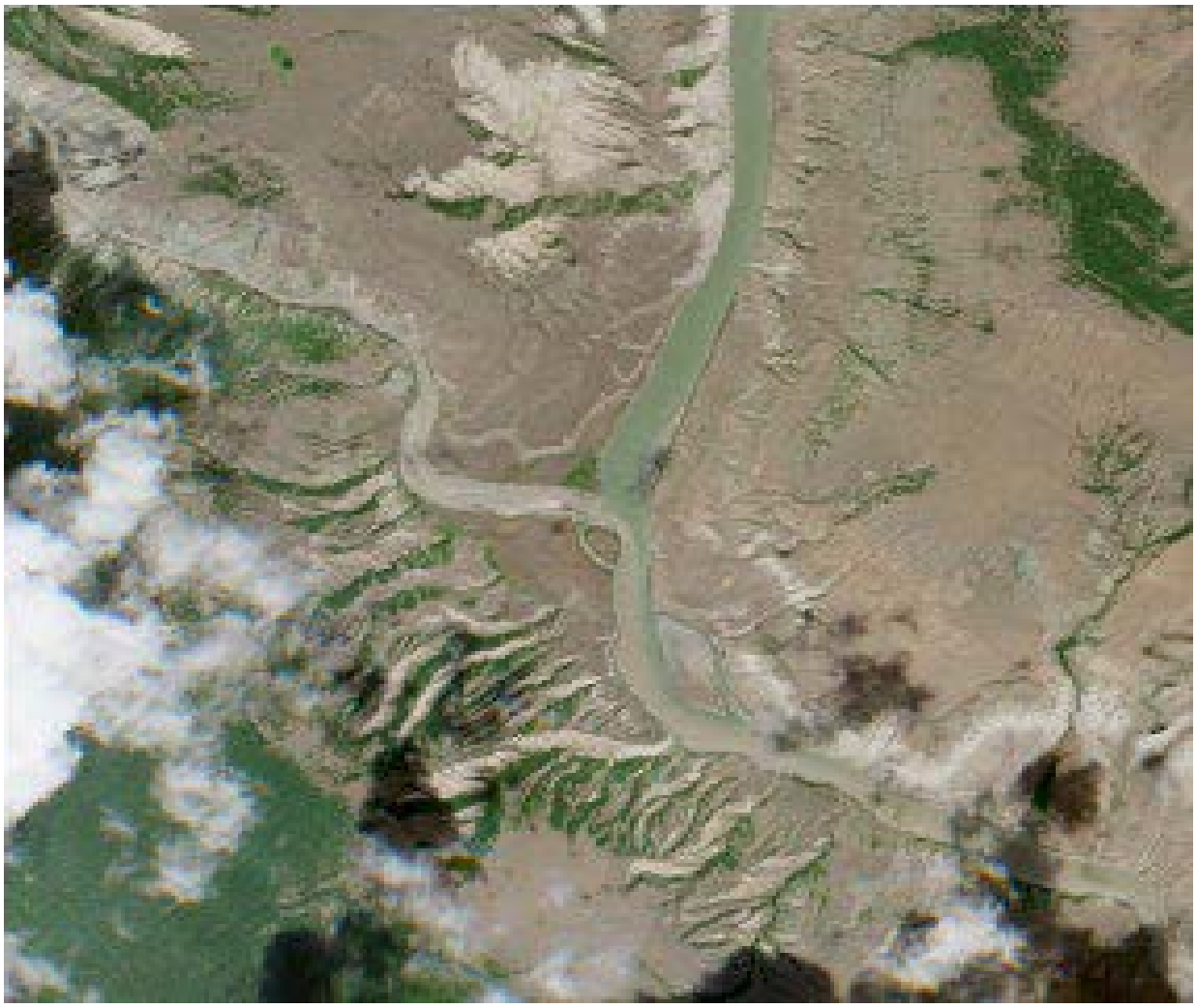


Figure 4. Satellite image of the Chilcotin River at confluence with Fraser River on July 03, 2025 (Copernicus 2025).



7a Recommendations on Run Size, Timing, and MA

The following table presents the run size recommendations from PSC staff. These numbers may deviate from the model derived run size estimates as additional consideration is given to the potential strength of the tail of the run based on past observations. The Panel may either accept or reject the run size recommendations or propose alternative estimates. The run size estimates presented here may not reflect the final estimates adopted by the Fraser River Panel. The recommended timing estimates are dependent on the recommended run size estimates.

Management Group	PSC Staff Recommendation	Run Size		Timing	
		Currently Adopted	PSC staff recommendation	Currently Adopted	PSC Staff recommendation
Early Stuart Run	No recommendation	116,000		08-Jul	
Early Summer Run	No recommendation	220,000		03-Aug	
Summer Run	No recommendation	2,137,000		15-Aug	
Late Run	No recommendation	468,000		20-Aug	
Pink Salmon Run	No recommendation	27,000,000		21-Aug	

PSC staff recommends pDBE estimates which will be converted into MA estimates for consideration by the Panel. The Panel may either accept or reject the MA estimates associated with the pDBE recommendations or propose alternative estimates, by incorporating additional information that is not accounted for in the current quantitative approach. The Management Adjustment estimates presented here may not reflect the final estimates adopted by the Fraser River Panel.

Management Group	PSC Staff Recommendation	pDBE and associated pMA estimate			
		Currently Adopted		PSC recommendation	
		pDBE	pMA	pDBE	pMA
Early Stuart Run	No recommendation	-0.54	1.17		
Early Summer Run	No recommendation	-0.35	0.54		
Summer Run	No recommendation	-0.22	0.28		
Late Run	No recommendation	-0.61	1.56		

9. Sockeye assessment updates from other areas

Sockeye assessment updates from other areas

	Area	Pre-season Forecast	Run Size Estimate	Run to Date	Date of Last Update	Sources
Alaska	Bristol Bay	54.1 Million	58.1 Million	42.4 million	July 8, 2025	1, 2
British Columbia	Nass River (TRTC)	476,000	-	98,000	July 9, 2025	3
	Skeena River	2.7 Million	1.9 Million	204,800	July 8, 2025	4, 5
	Barkley Sound	500,000 – 700,000	850,000	490,000	July 10, 2025	6
	Fraser River	2.9 Million	-	-	-	-
Washington	Baker Lake	60,200	-	44,000	July 8, 2025	7, 8
	Lake Washington	35,400	-	5,071	July 8, 2025	8, 9
	Columbia River	350,000	172,400	155,000	July 10, 2025	8, 10, 11

[1] University of Washington Alaska Salmon Program - 2025 In-season Reports
[2] ADF&G In-season Total Run Summary
[3] Nisga'a Fisheries - Nass Stock Assessment Updates
[4] DFO North Coast Salmon Update
[5] Skeena Tyee Test Fishery Information
[6] DFO Barkley Sound Stock Assessment Updates
[7] WDFW Baker River sockeye salmon counts
[8] Washington Department of Fish and Wildlife (pers. Comm.)
[9] WDFW Lake Washington sockeye salmon counts
[10] Columbia River Inter-Tribal Fish Commission (pers. comm.)
[11] Fish Passage Center - Bonneville Dam Counts

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Data Acknowledgements

1. Fisheries & Oceans Canada (DFO)
2. Tŝilhqot'in National Government (TNG) Task Force (comprised of BC, DFO and TNG's indigenous technical partner, the Upper Fraser Fisheries Conservation Alliance (UFFCA))