



PSC Fraser River Panel Distribution

Friday, September 11, 2026

1) Roll Call (Panel and Tech members, others please email Angela Xu, frontdesk@psc.org)	
2) Webinar Etiquette: mute phone & chat feature	
■ 3) Agenda	
4) Overview of run and catch status	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	PSC staff
■ a) Test fishing catches and acoustics summary	
■ b) Comparison of predictions from Mission to Qualark	
□ 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	
□ b) Predicted abundance en route to Mission	
□ c) Diversion rate	
■ d) Technical assessment information	
□ e) Criteria for fishing decisions table	
■ f) Run size and timing estimates	
□ g) Predicted allowable harvest based on run size and DBE scenarios	
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
b) Staff evaluation (including catch predictions)	PSC staff
c) Canadian and U.S. evaluation	Panel
d) Panel decision	
□ 9) Assessments from other areas	PSC staff
□ 10) Other business:	Panel
□ 11) Next FRP meeting and agenda	PSC staff/Panel
12) Next TC meeting:	PSC staff
■ 13) Data acknowledgements	

Legend: ☒ Included in the distribution, to be discussed at the Fraser River Panel meeting
☒ Included in the distribution, to be discussed only when requested
☐ Not included in the distribution due to not relevant for this meeting or no (new) information

4a. Accounted run to date relative to forecast and adopted runsizes

2026 Run status of Fraser sockeye and pink salmon

Date: Sep. 11, 2026

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: Sep. 6 - Sep. 12, 2026	Sockeye				
	Management Group				Total Fraser
	E.Stuart	E.Summer	Summer	Late	
Mission passage (inclds Pitt, Alouette, Coquitlam)	45,900	206,700	1,512,900	357,700	2,123,200
Catch downstream of Mission	100	15,300	133,200	49,600	198,200
Accounted Run To Date	46,000	222,000	1,646,100	407,300	2,321,400
Adopted In-season run size ¹	46,000	220,000	1,750,000	1,000,000	3,016,000
Pre-season run size	62,670	1,163,680	4,304,780	2,212,260	7,743,390
Area 20 timing adopted in-season	1-Jul	2-Aug	10-Aug	7-Aug	8-Aug
Area 20 timing expected pre-season	4-Jul	3-Aug	13-Aug	20-Aug	14-Aug
Johnstone Str. Diversion Rate	Annual average to date				36%
	Preseason forecast of annual rate				67%

¹ In-season 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.

4b. Catch-to-date by fishery

2026 Catch-to-date by fishery

Date: Sep. 11, 2026

Week of: Sep. 6 - Sep. 12, 2026		Sockeye		Catch File Last Modified*****
		Total	Fraser	
Canada		242,688	240,913	
Commercial		0	0	
B Purse Seine		0	0	
D Gillnet		0	0	
First Nations		235,391	233,624	
Food, Social & Ceremonial (FSC)		235,391	233,624	
Marine		63,758	61,991	2026-08-27 15:58
Fraser R.		171,633	171,633	2026-09-10 7:44
Economic Opportunity (EO) & Demonstration (Demo)		0	0	
Single Stock FSC (SS FSC)		6,065	6,065	2026-09-10 7:44
Recreational		0	0	2026-09-10 8:36
Charter (Albion & A12 Chum test fishery)		677	677	
Other****		555	547	2026-09-03 8:01
United States		31,736	31,690	
Commercial		26,170	26,124	
Treaty Tribes (TRB)		14,025	13,994	2026-08-20 16:19
All Citizen (AC)		12,145	12,130	2026-08-28 7:11
Treaty Tribes Ceremonial & Subsistence (C&S)		5,566	5,566	2026-08-20 16:19
All Citizen Recreational		0	0	
Other****		0	0	
Alaska *		na	na	
Panel-approved Test Fisheries		18,911	17,929	
Panel Waters		12,203	11,806	
Canada		11,581	11,236	
U.S.		622	569	
Non-Panel Waters**		6,708	6,123	
Total		293,335	290,531	
Catch Seaward of Mission ***		201,019	198,216	
Catch Upstream of Mission		92,316	92,316	

* Alaska data are processed post-season and so are unavailable in-season.

** Includes Qualark

*** All catches in marine areas and in the Fraser River downstream of Mission.

**** May include unauthorized directed retention or unauthorized bycatch retention in fisheries directed at other species.

*****Date and time that the catch report provided by the sender was modified.

4d. TAC table

		Fraser Sockeye				
		Early Stuart	Early Summer	Summer	Lates	Total
RUN STATUS, ESCAPEMENT NEEDS & AVAILABLE SURPLUS						
Pre-season Forecast (50p)		62,670	1,163,680	4,304,780	2,212,260	7,743,390
Pre-season or Adopted In-season Run Size		46,000	220,000	1,750,000	1,000,000	3,016,000
In-season Est. as % of Pre-season Forecast		73%	19%	41%	45%	39%
Adult Spawning Escapement Target (SET)		46,000	220,000	1,478,900	1,000,000	2,744,900
%SET from TAM rules		100%	100%	85%	100%	
Management Adjustment (MA)		49,680	59,400	443,670	430,000	982,750
Proportional MA (pMA)		1.08	0.27	0.30	0.43	
Adjusted Spawning Escapement Target (SET) *		46,000	220,000	1,750,000	1,000,000	3,016,000
Test Fishing (TF)		300	2,000	15,000	11,929	29,229
Surplus above Adjusted SET & Test fishing		0	0	0	0	0
Exploitation Rate represented by Surplus		0%	0%	0%	0%	0%
DEDUCTIONS & TAC FOR INTERNATIONAL SHARING						
Aboriginal Fishery Exemption (AFE)		0	0	0	0	0
Available Aboriginal Fishery Exemption						
Total Deductions (Adj. SET + TF + Available AFE)		46,300	222,000	1,765,000	1,011,929	3,045,229
Available TAC for International Sharing		0	0	0	0	0
UNITED STATES (Washington) TAC						
Proportionally Distributed TAC **		16.5%	0	0	0	0
U.S. Payback **		0.0%	0	0	0	0
Proportionally Distributed TAC - Payback		0	0	0	0	0
Treaty Tribes Share **		67.7%	0	0	0	0
All Citizen Share		32.3%	0	0	0	0
CANADA TAC						
Aboriginal Fishery Exemption (AFE)		0	0	0	0	0
Canadian TAC + AFE		0	0	0	0	0
CATCH-TO-DATE						
Test		240	1,920	10,990	4,770	17,930
Treaty Tribes (Wash.) / Ceremonial (TRB)		0	870	11,390	7,290	19,560
All Citizen (Wash.)		0	490	7,410	4,230	12,130
Recreational						
Other (Wash.)***		0	0	0	0	0
Washington		0	1,360	18,800	11,520	31,690
First Nations Catch (including AFE)		160	23,010	173,230	37,220	233,620
Planned Charter & Recreational Shares		0	80	490	100	680
Other***		260	140	140	0	550
Total Commercial (including FN EO/Demo****)		0	0	0	0	0
Canada		420	23,230	173,860	37,320	234,850
Total Catch in All Fisheries		660	26,510	203,650	53,610	284,470
Exploitation Rate (catch-to-date / run size)		1.4%	12.1%	11.6%	5.4%	9.4%
Fisheries induced mortalities (Canada, U.S. & TF)		10	122	884	371	1,386
Exploit. Rate with fishery-induced mortality included		1.5%	12.1%	11.7%	5.4%	9.5%
CATCH REMAINING (BALANCE)						
Washington		0	-1,360	-18,800	-11,520	-31,690
Canada		-420	-23,230	-173,860	-37,320	-234,830
Balance Remaining [below share / -above share]		-420	-24,590	-192,660	-48,840	-266,510

* The adjusted SET is the lesser of the run size or the sum of the MA + TAM - defined SET.

** Washington sockeye and pink shares according to Annex IV of the Pacific Salmon Treaty.
Sockeye: 16.5% of the TAC - payback (maximum of 5% of share).
Total payback: 83,700

*** May include unauthorized directed retention or unauthorized bycatch retention in fisheries directed at other species.

**** EO = FN Economic Opportunity fisheries; Demo = FN Demonstration fisheries.

5a_Test Fishing & Escapement Summary_Sockeye

2026 Fraser Sockeye Test Fishing Catch, CPUE, & Escapement Summary

Area/Gear Location From A20	Fraser River								
	A29B TR Catch (CPUE) (+4 days)	Brownsville Bar GN A29-16 Catch (CPUE) (+5 days)	Whonnock GN A29-16 Catch (CPUE) (+6 days)	Qualark Catch (CPUE) (+8 days) Estimate ¹ Method ²			Mission Hydroacoustics Estimate ³ (+6 days) Method ⁴		Hells Gate Estimate ⁵ (+10 days)
20-Aug	151 (5.73) (Q4)	131 (35.37)*	31 (2.73)	49 (87.5)	52,200	RB + LB	39,500	L+M+R	Estimate Not Available
21-Aug	287 (8.74) (Q3)	174 (46.98)*	45 (3.59)	39 (0)	45,900	RB + LB	56,800	L+M+R	Estimate Not Available
22-Aug		138 (37.26)*	66 (5.43)	7 (17.5)	19,600	RB + LB	67,800	L+M+R	Estimate Not Available
23-Aug		138 (18.63)	55 (4.62)	9 (22.5)	22,700	RB + LB	68,300	L+M+R	Estimate Not Available
24-Aug		54 (7.6)	74 (5.56)	18 (37.5)	26,800	RB + LB	77,300	L+M+R	Estimate Not Available
25-Aug	29 (0.61) (Q4)	91 (12.29)	122 (9.76)	22 (77.08)	41,600	RB + LB	36,200	L+M+R	Estimate Not Available
26-Aug	36 (0.76) (Q3)	71 (9.46)	66 (5.05)	43 (89.58)	44,300	RB + LB	43,300	L+M+R	Estimate Not Available
27-Aug		107 (14.58)	27 (2.37)	38 (95)	28,300	RB + LB	25,800	L+M+R	Estimate Not Available
28-Aug		37 (5.29)	17 (1.56)	16 (33.33)	23,700	RB + LB	23,400	L+M+R	Estimate Not Available
29-Aug		53 (7.25)	22 (1.97)	13 (40.63)	16,900	RB + LB	24,200	L+M+R	Estimate Not Available
30-Aug		67 (9.18)	7 (0.66)	18 (37.5)	12,500	RB + LB	25,500	L+M+R	Estimate Not Available
31-Aug		115 (14.97)	8 (0.78)	7 (17.5)	6,600	RB + LB	17,100	L+M+R	Estimate Not Available
1-Sep	225 (5.25) (Q4)	60 (7.81)	35 (3.08)	8 (16.67)	7,500	RB + LB	23,400	L+M+R	Estimate Not Available
2-Sep		80 (10.97)	6 (0.55)	23 (47.92)	12,900	RB + LB	17,800	L+M+R	Estimate Not Available
3-Sep	97 (1.86) (Q3)	19 (2.69)	7 (0.66)	24 (50)	10,900	RB + LB	18,800	L+M+R	Estimate Not Available
4-Sep		30 (4.25)	9 (0.84)	9 (24.17)	7,600	RB + LB	20,500	L+M+R	Estimate Not Available
5-Sep		11 (1.57)	5 (0.49)	14 (29.17)	7,500	RB + LB	10,800	L+M+R	Estimate Not Available
6-Sep		5 (0.77)	2 (0.19)	5 (10.42)	3,900	RB + LB	13,300	L+M+R	Estimate Not Available
7-Sep		6 (0.85)	1 (0.1)	4 (12.5)	4,000	RB + LB	11,100	L+M+R	Estimate Not Available
8-Sep	123 (2.02) (Q4)	7 (0.98)	7 (0.64)	4 (8.33)	3,100	RB + LB	9,200	L+M+R	Estimate Not Available
9-Sep	152 (2.73) (Q3)	11 (1.5)	3 (0.27)	2 (4.17)	1,300	RB + LB	11,400	L+M+R	Estimate Not Available
10-Sep	End	39 (5.28)	6 (0.52)	2 (8.33)			18,300	L+M+R	Estimate Not Available
11-Sep									
12-Sep									

¹ Qualark escapement estimate - does not include Chilliwack, Pitt, Harrison, Birkenhead, Big Silver, Weaver, and Cultus.² Qualark source:

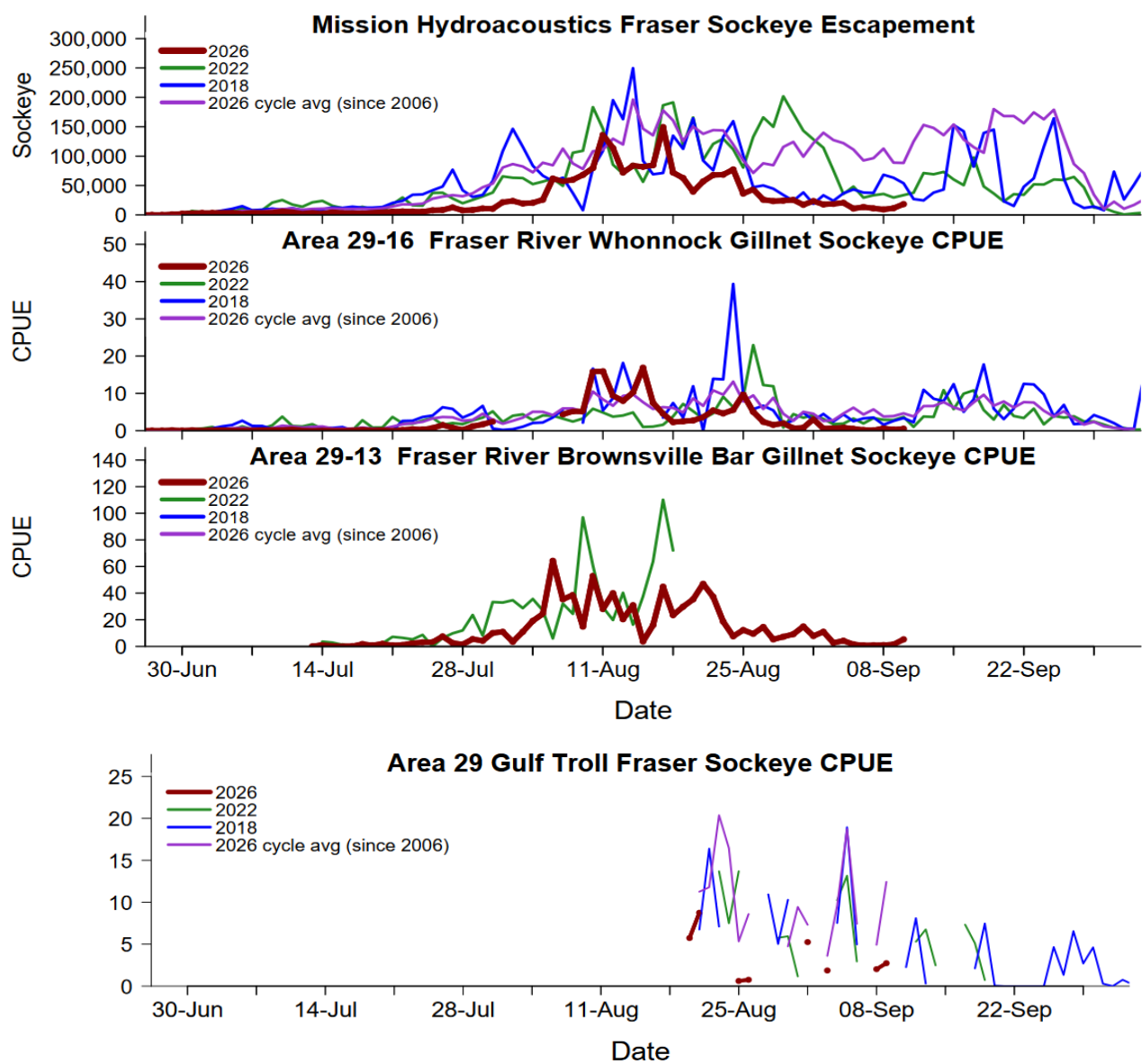
RB + LB = Right-bank (RB) + Left-bank (LB)

³ Mission escapement estimate - does not include Pitt⁴ Mission Source:

L + M + R = Left-bank ARIS (L) + Mobile ARIS (M) + Right-bank ARIS (R)

⁵ Daily Hells Gate abundance estimate; actual daily count has been expanded. Estimate not available indicates that passage estimates were not available at the time of reporting due to operational or safety-related challenges. Passage confirmed indicates that fish were observed upstream of the fishways.

*Only one set was conducted at Brownsville Bar, as the catch from the first set greatly exceeded sampling requirements.



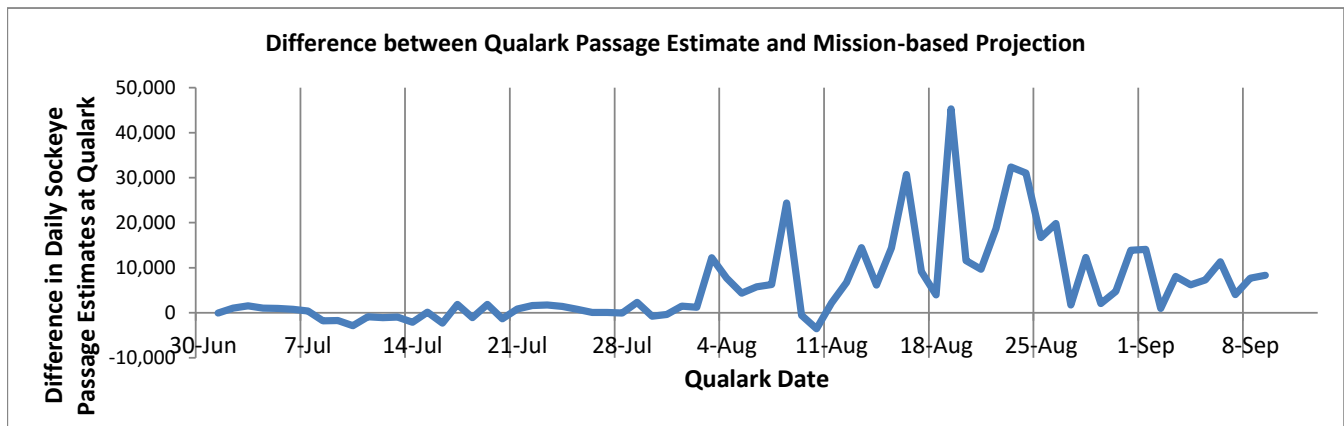
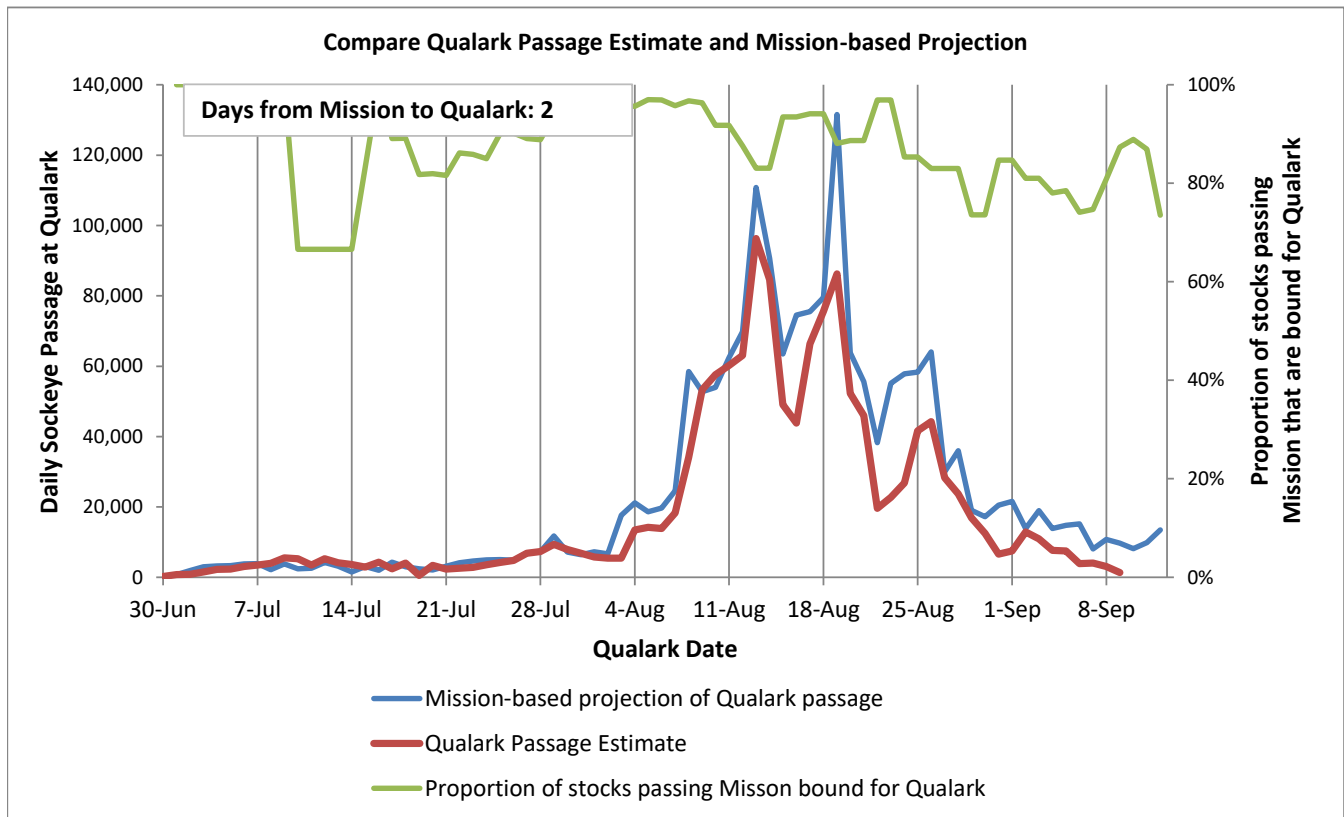
5b. Comparison of predictions from Mission to Qualark

Year: 2026

Date: 11-Sep-26

Time: 9:38 AM

	All Days	*Common Days
Mission projection	1,836,000	1,804,471
Qualark estimate	1,368,448	1,368,210
	Difference	436,260
	%Difference	24%



5d. Fraser River Sockeye Salmon Stock identification Review

Recent stock composition estimates for sockeye salmon

Fishing Sample Area/Gear ¹ Sector ² Date Type ³ Size (n) %Fraser						Fraser-only Stock Proportions by Reporting Group ⁴ (%)												Age (%)				
						Early Stuart	Early Summer					Summer					Late				Fraser Stocks	
						Early Stuart	Nadina Bowron Pitt Gates Alouette Nahat-latch Coquit-lam Taseko				Early Summer sub-total	Harri-son Late Chilko Raft Widg-eon Stuart Ques-nel North Thompson				Summer sub-total	Birken-head Late Big Shuswap Weaver Silver Portage Cultus			Late sub-total	Age-4 ₂	
							Chilli-wack	Coquit-lam	latch	Thomp-son	son	Stuart	Stellako	Ques-nel	Thomp-son	son	head	Late	Waver	sub-total		
Johnstone Strait & Queen Charlotte Strait																						
Juan de Fuca Strait & Washington & Other																						
A29a tr	tf	Sep 1	DNA	133	100%	0%						0%	4%	1%	4%	2%	10%		66%	23%	90%	96%
A29a tr	tf	Sep 3	DNA	93	99%	0%						0%	4%	1%	1%	3%	10%		70%	21%	90%	93%
A29a tr	tf	Sep 8	DNA	118	100%	0%						0%	1%	2%	2%		5%	1%	62%	32%	95%	96%
A29a tr	tf	Sep 9	DNA	144	99%	0%						0%			1%		1%		73%	26%	99%	97%
In-river																						
BB gn	tf	Sep3-5	DNA	58	100%	0%						0%	3%	4%	47%	3%	58%	7%	25%	10%	42%	94%
BB gn	tf	Sep6-9	DNA	28	100%	0%						0%	4%		28%	5%	37%	7%	38%	18%	63%	83%
AB gn	tf	Sep3-5	DNA	21	100%	0%						0%	7%	5%	28%	2%	42%	10%	34%	14%	58%	94%
AB gn	tf	Sep7-9	DNA	11	100%	0%						0%			60%	3%	63%		37%		37%	100%
AB gn		Sep 11	Prediction	1	100%	0%						0%	5%	1%	30%	2%	38%	2%	45%	15%	62%	NA

Notes for sockeye and pink tables:

¹ BB gn=29_13 (Brownsville), at=Alaska Twist, AB gn=29_16

(Whonnock), MA fw=Matsqui Fish Wheel, QU gn=Qualark

A29a tr=29 quardants 3-4 (Gulf Troll)

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

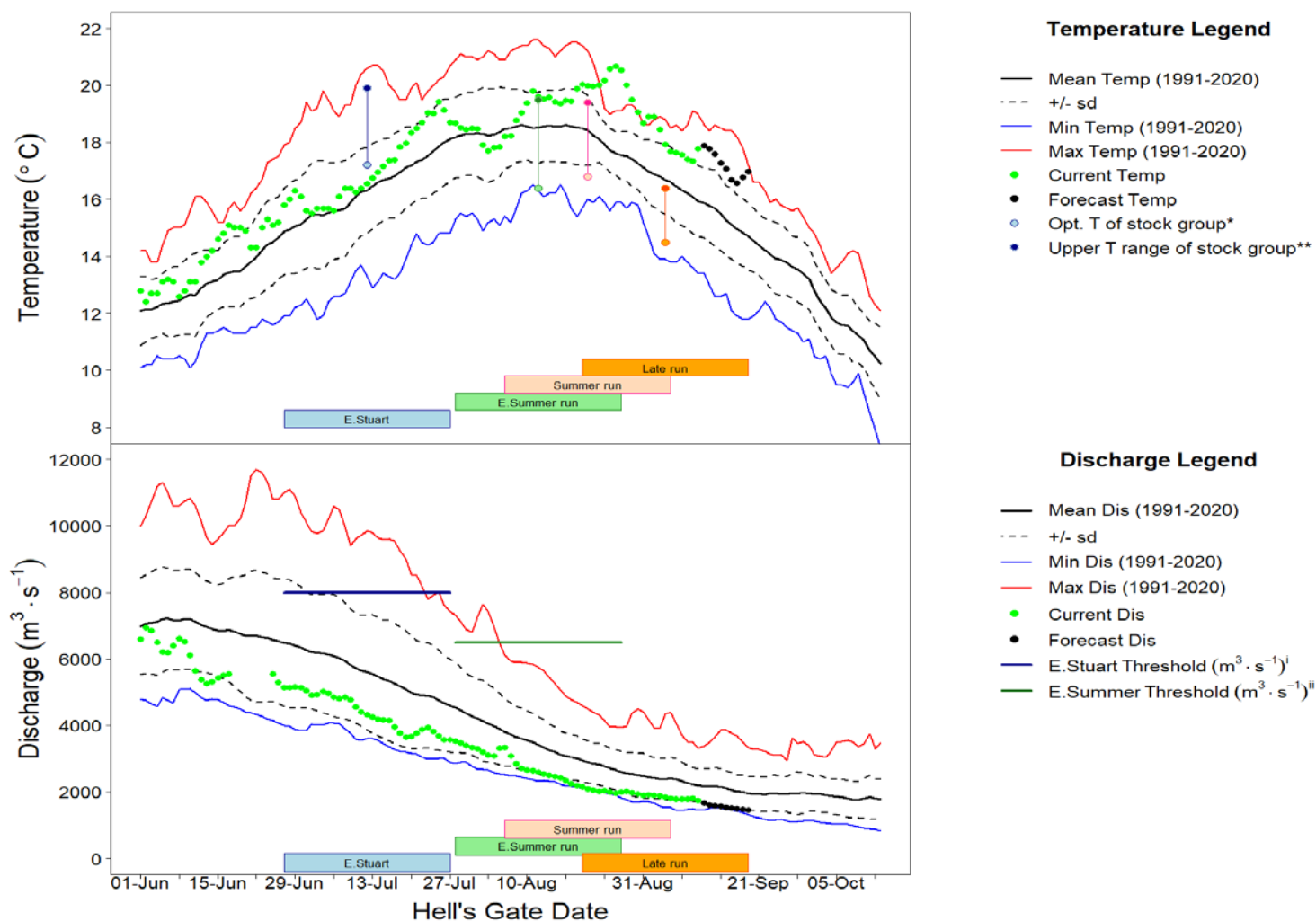
⁴ Further information relating stock group descriptions to spawning ground locations and population definitions can be found at http://www.psc.org/FRPWeb/Escapeement/PSC_Fraser_Sockeye_Stock_Group_Definitions.pdf

Results in grey text have been presented to the Panel previously

Fraser River Environmental Report for September 10, 2026

Observed Fraser River Temperature at Qualark for 10-Sep	17.8°C
Average (1991-2020) Historical Temperature on this day	15.9°C
Deviation from Average	1.8°C
Forecast Temperature for 16-Sep-26	16.7°C
The forecast in Kamloops and Prince George is for variable air temperatures.	

Observed Fraser River Discharge at Hope for 10-Sep	1751 m ³ ·s ⁻¹
Average (1991-2020) Historical Discharge on this day	2190 m ³ ·s ⁻¹
% above or below Historical Discharge	-20%
Forecast Discharge for 16-Sep-26	1520 m ³ ·s ⁻¹
The forecast in Kamloops is for minimal precipitation. The forecast in Prince George is for 3 mm of precipitation.	



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. ⁱpMA is the proportional increase to spawning escapement targets to help ensure targets are achieved. ⁱⁱ%DBE is %difference between 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}. ⁱDischarge threshold of 8000cms for Early Stuart from Macdonald (2000). Can. Tech. Rep. Fish. Aquat. Sci. 2315: 120p. ⁱⁱDischarge 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.

Seiii. Current temperatures in areas of the Fraser Watershed

Current Temperatures					
Map #	09-Sep	Daily Mean	Historic Mean	Deviation from Historical Mean	Historic Year Range
<u>Fraser River Mainstem</u>					
1	Fraser River @ Qualark	17.3	16.2	1.1	1991-2020
2	Fraser River @ Texas Creek	16.8	15.7	1.1	2006-2025
3	Fraser River @ Marguerite	16.5	15.5	1.0	2015-2025
4	Upper Fraser @ Shelley	13.4	12.3	1.1	1994-2025
<u>Fraser River Tributaries</u>					
5	Thompson R. @ Ashcroft	17.7	17.5	0.2	1995-2025
6	South Thompson @ Chase	19.2	18.4	0.8	1994-2025
7	North Thompson @ McLure	15.5	14.2	1.3	2006-2025
8	Quesnel R. @ Quesnel	17.0	15.7	1.3	2000-2025
9	Nechako R. @ Isle Pierre	16.5	15.9	0.6	2006-2025
10	Stuart R. @ Ft. St. James	16.6	15.2	1.4	2000-2025



Sevi. Spawning ground reports

Table 1. Fraser River Sockeye escapement - 2026 in-season update #7.

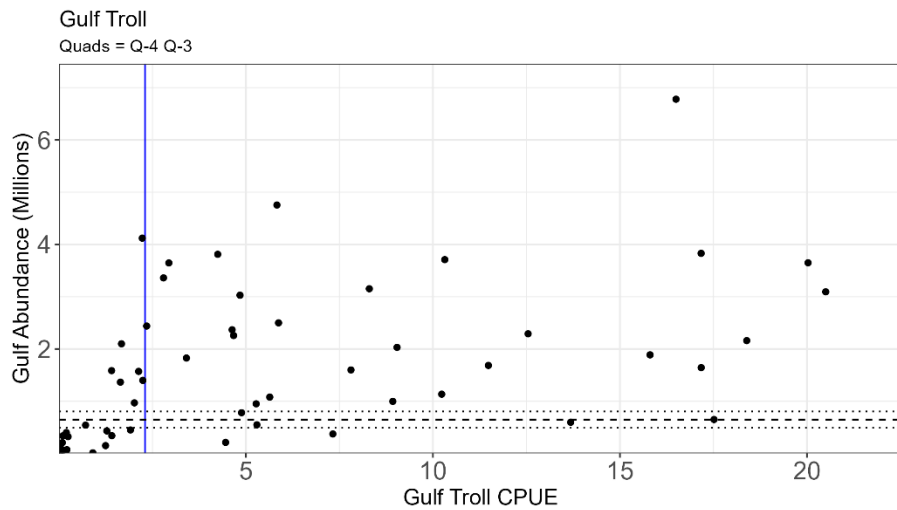
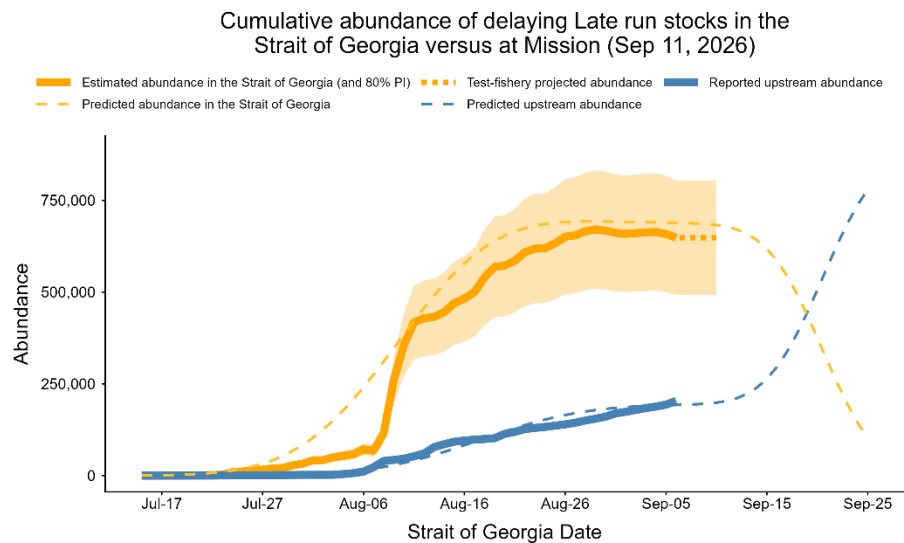
Stock	Survey Method	Start Date	End Date	No. to Date	Spawning	Water Temp.	Water Conditions	Fish Condition
EARLY SUMMER								
Eagle	Hydroacoustics	12-Aug	Ongoing	23,938	Peak Spawning	13.5	Moderate water levels	Healthy
Gates	Visual survey	3-Sep	Ongoing		Peak spawning	12.9	Moderate water levels	Healthy
Nadina Channel	Fence counts	1-Sep	Ongoing	1,679	Holding	13.6-16.1		
Nadina	Hydroacoustics	03-Aug	Ongoing	12,833	Holding/Migrating	12.5	Moderate water levels	
Nahatlatch	Visual survey	8-Sep	Ongoing		Start of Die-off	N/A	Moderate water levels	
Pitt River & tribs.	Visual survey	27-Aug	Ongoing		Start of Die-off	8-16	Moderate water levels	Healthy
Scotch Creek	Fence counts	Aug-14	Ongoing	31,431	Peak Spawning	19.9	Moderate water levels	Healthy
South Thompson (excl. Scotch)	Visual survey	20-Aug	Ongoing		Peak Spawning	10.1-18	Moderate water levels	Healthy
Upper Barriere	Visual survey	18-Aug	Ongoing		Die-off	10.6-11.1	Moderate water levels	Healthy
Upper Chilliwack & tribs.	Visual survey	11-Aug	Ongoing		Past Peak Die-off	9-9.5	Moderate water levels	
SUMMER								
Chilko	Hydroacoustics	12-Aug	Ongoing	292,641	Holding/Migrating	14	Moderate water levels	
Late Stuart	Hydroacoustics	11-Aug	Ongoing	17,682	Holding/Migrating	17	Moderate water levels	
North Thompson tribs.	Visual survey	25-Aug	Ongoing			13.5	Low water levels	
Quesnel	Hydroacoustics	11-Aug	Ongoing	303,182	Holding/Migrating	18	Moderate water levels	
Raft River	Visual survey	25-Aug	Ongoing		Spawning	13.2	Moderate water levels	Healthy
Stellako (including Nadina)	Hydroacoustics	01-Aug	Ongoing	44,538	Holding/Migrating	16	Moderate water levels	

6d: Gulf Abundance Update

The reconstructed abundance estimate of LShPWeCu delaying in the Strait of Georgia is:

- 648,000 (80% prediction interval ranging from 492,000 to 804,000)

The upstream Mission timing is defined as the date by which 50% of all sockeye of delaying Late-run stocks (Late Shuswap, Portage, Weaver and Cultus) have passed Mission. This metric includes fish from delaying Late-run stocks that do not exhibit delaying behaviour and instead migrate directly upstream in the Fraser River. As such, it differs from the upstream migration timing of only the delaying component of the delaying Late-run stocks.



6f 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						Run Size Components				Run Timing ¹					
	Inseason Adopted	Preseason Forecast	Inseason estimate	Inseason 80% Pls ²		Method	Catch + Escapement	6-day Projection ³	Seaward Abundance	Migration Delay	Inseason Adopted	Preseason Forecast	Inseason estimate	Inseason 80% Pls ²		Method
				10% PI	90% PI									10% PI	90% PI	
Total Fraser sockeye	3,016,000	7,743,000	● 2,980,000	2,619,000	3,392,000	Sum	2,320,000	6,000	3,000	651,000		14-Aug	08-Aug	07-Aug	10-Aug	Recon
Early Stuart Run	46,000	63,000	✓ 46,000	46,000	46,000	Recon	46,000	0	0	0	01-Jul	04-Jul	01-Jul	01-Jul	01-Jul	Recon
Early Summer Run	220,000	1,164,000	✓ 222,000	222,000	222,000	Sum	222,000	0	0	0	02-Aug	03-Aug	02-Aug	02-Aug	02-Aug	Recon
Chilliwack		7,000	✓ 14,000	14,000	14,000	Recon	14,000	0	0	0		17-Jul	06-Jul	06-Jul	06-Jul	Recon
Nadina Group ⁴		662,000	✓ 40,000	40,000	40,000	Recon	40,000	0	0	0		31-Jul	25-Jul	25-Jul	25-Jul	Recon
Pitt/Alouette/Coquitlam		44,000	✓ 7,000	7,000	7,000	Recon	7,000	0	0	0		03-Aug	18-Jul	18-Jul	18-Jul	Recon
Early Thompson ⁵		450,000	✓ 161,000	161,000	161,000	Recon	161,000	0	0	0		07-Aug	05-Aug	05-Aug	05-Aug	Recon
Summer Run	1,750,000	4,305,000	✓ 1,656,000	1,639,000	1,679,000	Sum	1,645,000	6,000	2,000	3,000	10-Aug	13-Aug	09-Aug	09-Aug	10-Aug	Recon
Harrison / Widgeon		119,000	● 30,000	18,000	43,000	Marine N	26,000	0	1,000	3,000		08-Aug	04-Aug	25-Jul	06-Aug	Marine N
Late Stuart / Stellako		804,000	✓ 216,000	216,000	217,000	Recon(2)	216,000	0	0	0		10-Aug	03-Aug	03-Aug	03-Aug	Recon(2)
Chilko		1,742,000	✓ 729,000	726,000	734,000	Recon(2)	725,000	3,000	1,000	0		13-Aug	11-Aug	11-Aug	11-Aug	Recon(2)
Quesnel		1,592,000	✓ 639,000	638,000	642,000	Recon(2)	637,000	2,000	0	0		14-Aug	10-Aug	10-Aug	10-Aug	Recon(2)
Raft / North Thompson		49,000	✓ 42,000	41,000	43,000	Recon(2)	41,000	1,000	0	0		21-Aug	18-Aug	18-Aug	24-Aug	Recon(2)
Late Run	1,000,000	2,212,000	◇ 1,056,000	712,000	1,445,000	Sum	407,000	0	1,000	648,000	07-Aug	20-Aug	08-Aug	07-Aug	14-Aug	Weight
Birkenhead Group ⁶		615,000	✓ 175,000	174,000	176,000	Recon	174,000	0	1,000	0		22-Aug	12-Aug	12-Aug	16-Aug	Recon
L Shuswap / Weaver Gr. ⁷		1,597,000	◇ 881,000	538,000	1,269,000	Marine N	233,000	0	0	648,000		19-Aug	07-Aug	05-Aug	14-Aug	Marine N

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

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).

⁴ Nadina / Bowron / Gates / Nahatlatch / Taseko.

⁵ Early South Thompson / North Barriere.

⁶ Birkenhead / Big Silver

⁷ Late Shuswap / Portage / Weaver / Cultus

Methods for run size & timing estimation

Recon

Recon(2) Catch + escapement + 6-day test fish projection + model seaward projection

Sum Catch + escapement + model projections

Weight Sum of individual groups

Marine N Weighted average of individual groups

Reconstruction of CPUE-based marine abundances

Run Size Uncertainty Legend[†]

- ✓ ≥ 95% of the run size has been accounted for in catch + escapement. The CV associated with the run size is < 5%. Clear indication of run size; minor run size updates still expected
- ≥ 70% of the run size has been accounted for in catch + escapement. The CV associated with the run size is < 20%. Good indication of run size; peak of the run has been observed at Mission, uncertainty relates to 6 day projection and seaward abundance
- ▲ ≥ 50% of the run size has been accounted for in catch + escapement. The CV associated with the run size is < 35%. Decent indication of run size.
- ◇ < 50% of the run size has been accounted for in catch + escapement. The CV associated with the run size can be as high as 80%. Uncertain or early indication of run size based on marine data

[†] 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.

Run size forecasts by management group

Management Group	p10	p25	p50	p75	p90
Early Stuart	17,000	31,000	63,000	122,000	228,000
Early Summer	318,000	607,000	1,164,000	2,049,000	3,211,000
Summer	1,264,000	2,260,000	4,305,000	8,685,000	16,475,000
Late	354,000	870,000	2,212,000	5,471,000	10,686,000

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	46,000	NA	01-Jul	NA
Early Summer Run	No recommendation	220,000	NA	02-Aug	NA
Summer Run	No recommendation	1,750,000	NA	10-Aug	NA
Late Run	No recommendation	1,000,000	NA	07-Aug	NA

PSC staff recommend pDBE estimates (not MA estimates) for consideration by the Panel. The Panel may either accept or reject the MA estimates implied by the pDBE recommendations or propose alternative estimates, by incorporating additional information, e.g., natural, environmental or stock assessment factors, that are 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 implied pMA estimate			
		Currently Adopted		PSC recommendation	Implied pMA
		pDBE	pMA	pDBE	pMA
Early Stuart Run	No recommendation	-0.52	1.08	NA	NA
Early Summer Run	No recommendation	-0.21	0.27	NA	NA
Summer Run	No recommendation	-0.23	0.30	NA	NA
Late Run	No recommendation	-0.30	0.43	NA	NA

13. Data & Partner Acknowledgements

1. Fisheries & Oceans Canada (DFO)
 - Environmental Watch Program
 - Fraser River Stock Assessment
 - Basin and Coastal Scale Interactions Program
2. T̓silhqot'in National Government (TNG) Task Force (comprised of BC, DFO and TNG's Indigenous technical partner, the Upper Fraser Fisheries Conservation Alliance (UFFCA))
3. Yale First Nation
4. Pacheedaht First Nation
5. 'Namgis First Nation
6. A-Tlegay Fisheries Society
7. Makah Tribe
8. Pacific Salmon Foundation & Sonora Marine Services