



PSC Fraser River Panel Distribution

Tuesday, September 8, 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. 8, 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	1,495,500	336,200	2,084,300
Catch downstream of Mission	100	15,300	133,100	49,300	197,800
Accounted Run To Date	46,000	222,000	1,628,600	385,500	2,282,100
Adopted In-season run size¹	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. 8, 2026

Week of: Sep. 6 - Sep. 12, 2026		Sockeye		Catch File Last Modified*****
		Total	Fraser	
Canada		237,520	235,745	
Commercial		0	0	
B Purse Seine		0	0	
D Gillnet		0	0	
First Nations		236,288	234,522	
Food, Social & Ceremonial (FSC)		236,288	234,522	
Marine		63,758	61,991	2026-08-27 15:58
Fraser R.		172,530	172,530	2026-09-03 8:01
Economic Opportunity (EO) & Demonstration (Demo)		0	0	
Single Stock FSC (SS FSC)		0	0	
Recreational		0	0	2026-08-27 8:29
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		18,568	17,587	
Panel Waters		11,871	11,475	
Canada		11,249	10,905	
U.S.		622	569	
Non-Panel Waters**		6,697	6,112	
Total		287,824	285,022	
Catch Seaward of Mission ***		200,687	197,885	
Catch Upstream of Mission		87,137	87,137	

* 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	10,960	4,470	17,590
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	22,920	174,390	37,040	234,520
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	23,140	175,020	37,140	235,750
Total Catch in All Fisheries		660	26,420	204,780	53,130	285,020
Exploitation Rate (catch-to-date / run size)		1.4%	12.0%	11.7%	5.3%	9.5%
Fisheries induced mortalities (Canada, U.S. & TF)		10	122	860	363	1,355
Exploit. Rate with fishery-induced mortality included		1.5%	12.1%	11.8%	5.3%	9.5%
CATCH REMAINING (BALANCE)						
Washington		0	-1,360	-18,800	-11,520	-31,690
Canada		-420	-23,140	-175,020	-37,140	-235,720
Balance Remaining [below share / -above share]		-420	-24,500	-193,820	-48,660	-267,400

* 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	Brownsville Bar GN	Whonnock GN	Qualark			Mission Hydroacoustics		Hells Gate
	Catch (CPUE) (+4 days)	A29-16 Catch (CPUE) (+5 days)	A29-16 Catch (CPUE) (+6 days)	Catch (CPUE) (+8 days)	Estimate ¹	Method ²	Estimate ³ (+6 days)	Method ⁴	Estimate ⁵ (+10 days)
17-Aug		166 (44.82)*	56 (4.55)	58 (145)	66,300	RB + LB	149,400	L+M+R	Estimate Not Available
18-Aug		174 (23.49)	26 (2.27)	55 (156.25)	75,600	RB + LB	72,000	L+M+R	Estimate Not Available
19-Aug		221 (29.84)	28 (2.51)	89 (185.42)	86,200	RB + LB	62,700	L+M+R	Estimate Not Available
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)			11,100	L+M+R	Estimate Not Available
8-Sep									

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

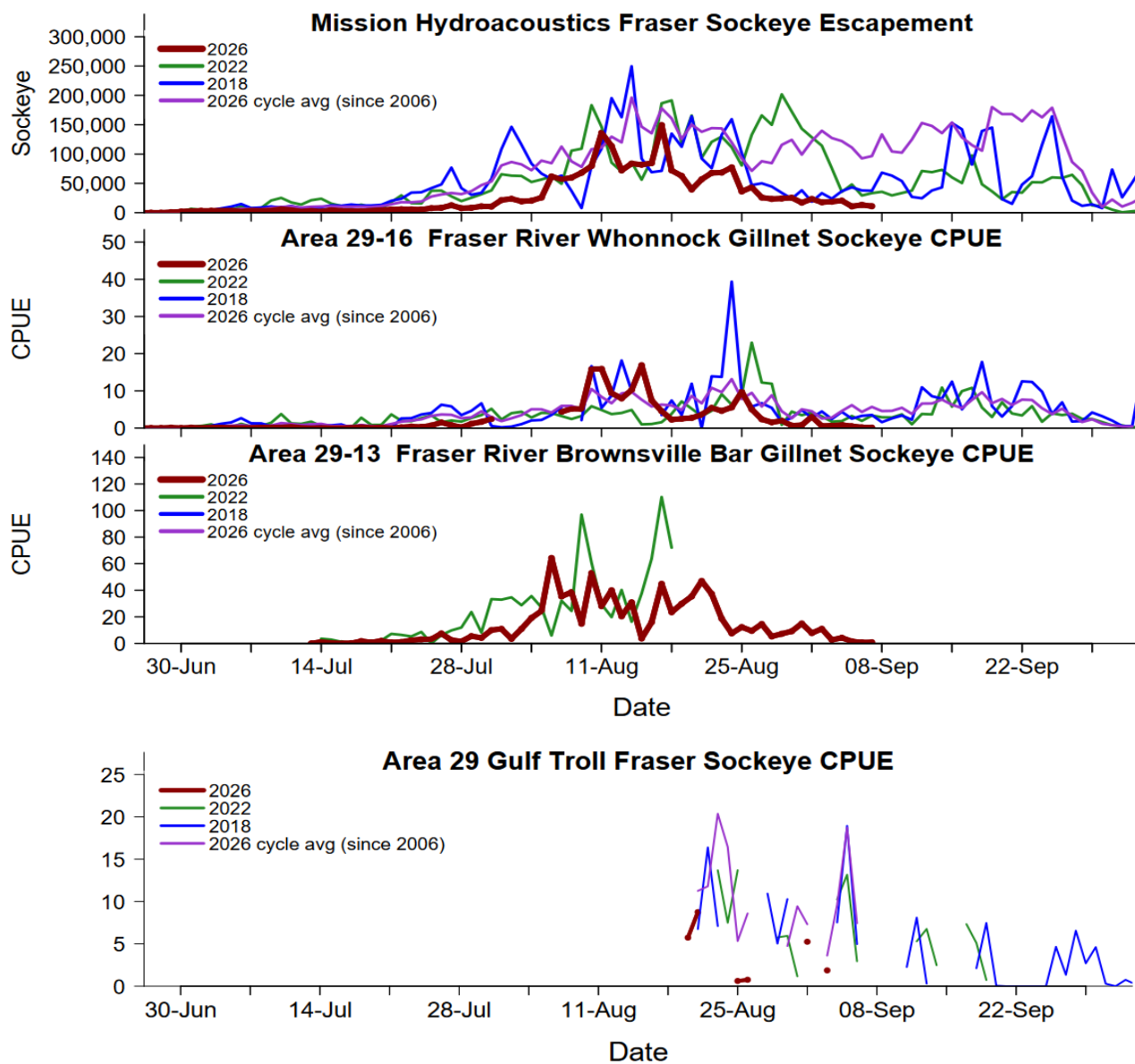
RB + LB = Right-bank (RB) + Left-bank (LB)

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.



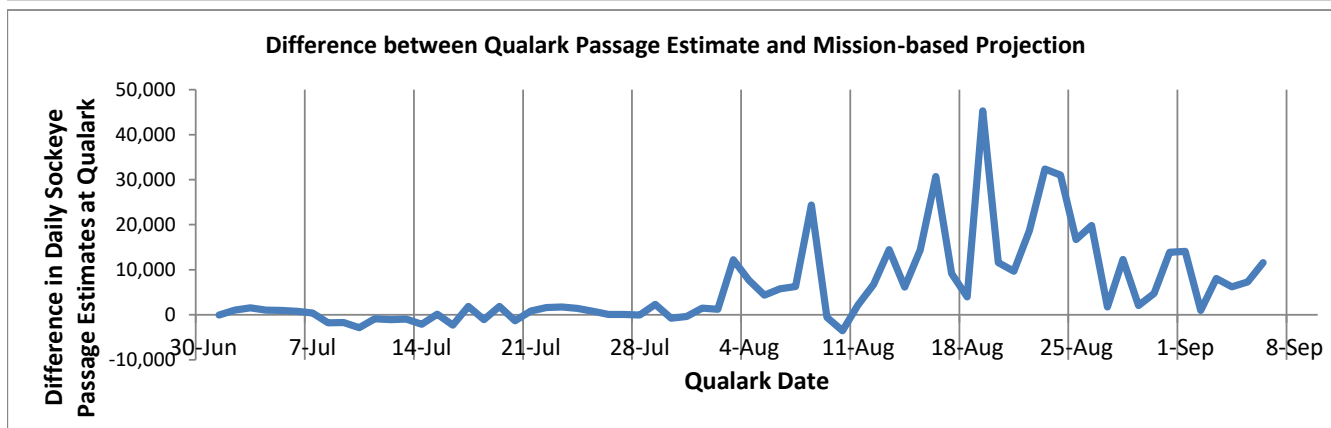
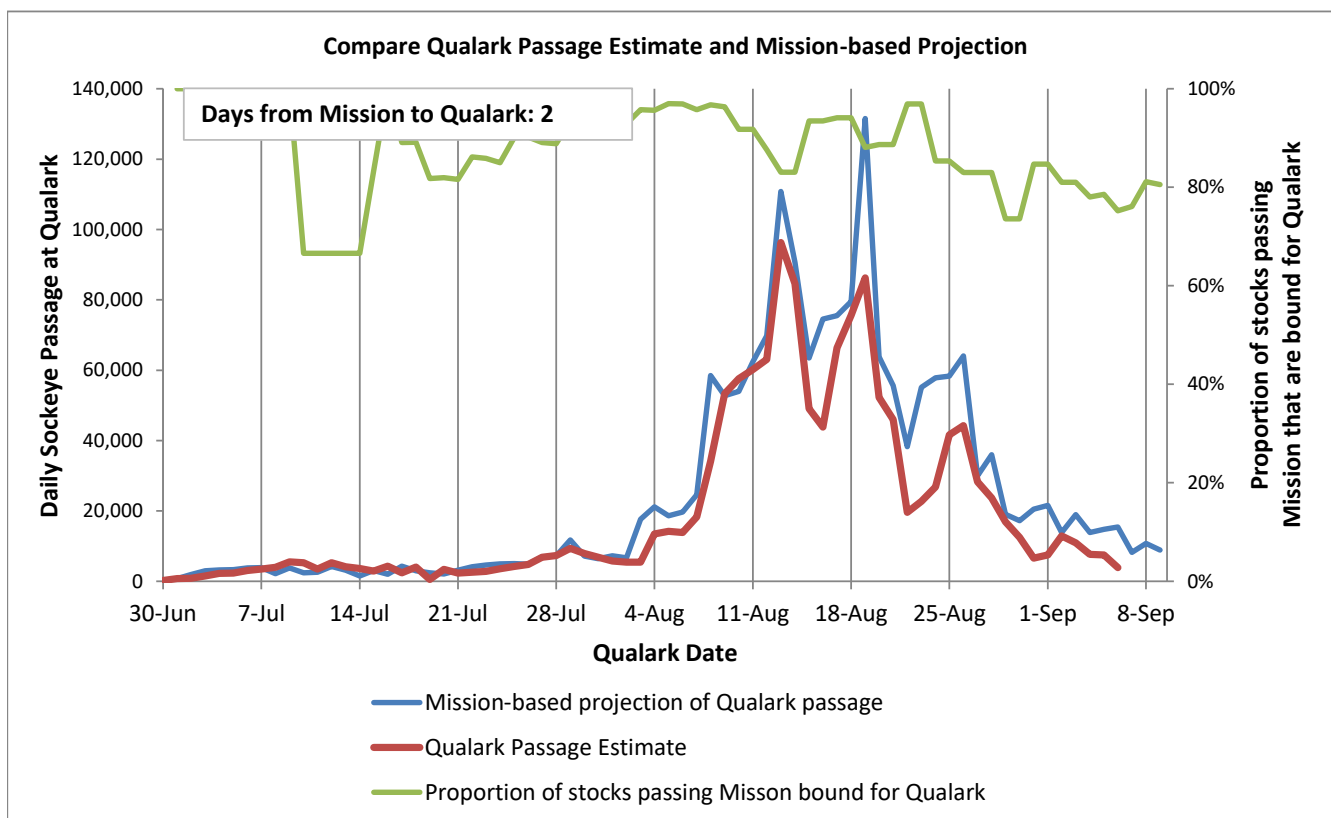
5b. Comparison of predictions from Mission to Qualark

Year: 2026

Date: 8-Sep-26

Time: 9:14 AM

	All Days	*Common Days
Mission projection	1,804,154	1,776,234
Qualark estimate	1,360,036	1,359,798
	Difference	416,437
	%Difference	23%



5d. Fraser River Sockeye Salmon Stock identification Review

Recent stock composition estimates for sockeye salmon

Fishing						Fraser-only Stock Proportions by Reporting Group ⁴ (%)													Age (%)				
						Early Stuart	Early Summer					Summer					Late			Fraser Stocks			
						Early Stuart	Nadina Bowron				Early Summer sub-total	Summer				Summer sub-total	Late			Late sub-total	Age-4 ₂		
							Chilli-wack	Pitt Alouette	Gates Nahat-latch	Early Thompson		Harri-son	Late Stuart	Chilko Ques-nel	Raft North Thompson		Birken-head	Late Shuswap	Weaver				
Area/Gear ¹	Sector ²	Date	Type ³	Size (n)	%Fraser	Early Stuart	Chilli-wack	Coquit-lam	Taseko	Thomp-son	Early Summer sub-total	Widg-eon	Stuart Stellako	Ques-nel	Thomp-son	Summer sub-total	Birken-Silver	Portage	Shuswap	Weaver	Cultus	Late sub-total	Age-4 ₂
Johnstone Strait & Queen Charlotte Strait																							
Juan de Fuca Strait & Washington & Other																							
A29a tr	tf	Aug25-26	DNA	62	100%	0%						0%	8%	5%	4%		17%	13%	51%	19%		83%	88%
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%	5%	11%		69%	21%		89%	NA
In-river																							
BB gn	tf	Sep1-2	DNA	100	99%	0%	1%					1%	2%	5%	56%	5%	68%	9%	16%	6%		32%	90%
BB gn	tf	Sep3-5	DNA	58	100%	0%						0%	0%	4%	48%	5%	57%	9%	25%	9%		43%	NA
AB gn	tf	Aug31-Sep2	DNA	47	100%	0%						0%	2%	6%	38%	6%	52%	16%	23%	8%		48%	89%
AB gn	tf	Sep3-5	DNA	21	100%	0%						0%	6%	5%	31%	1%	43%	10%	32%	16%		57%	NA
AB gn		Sep 8	Prediction	1	100%	0%						0%	3%	2%	38%	4%	46%	6%	36%	12%		54%	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

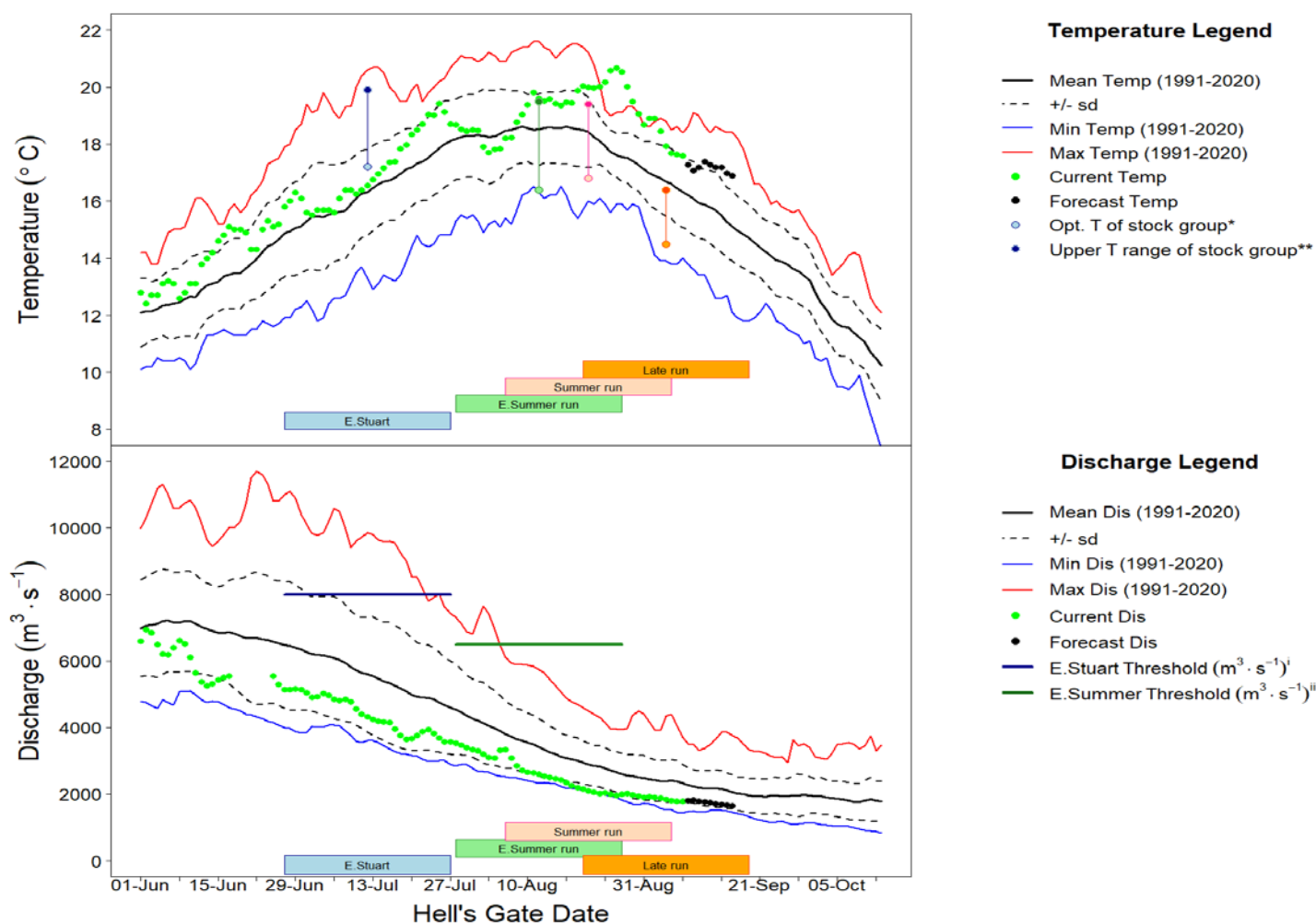
⁴ Further information relating stock group descriptions to spawning ground locations and population definitions can be found at http://www.psc.org/FRPWeb/Escapement/PSC_Fraser_Sockeye_Stock_Group_Definitions.pdf

Results in grey text have been presented to the Panel previously

Fraser River Environmental Report for September 07, 2026

Observed Fraser River Temperature at Qualark for 07-Sep	17.6°C
Average (1991-2020) Historical Temperature on this day	16.3°C
Deviation from Average	1.3°C
Forecast Temperature for 13-Sep-26	17.2°C
The forecast in Kamloops and Prince George is for variable air temperatures.	

Observed Fraser River Discharge at Hope for 07-Sep	1779 m ³ ·s ⁻¹
Average (1991-2020) Historical Discharge on this day	2329 m ³ ·s ⁻¹
% above or below Historical Discharge	-24%
Forecast Discharge for 13-Sep-26	1713 m ³ ·s ⁻¹
The forecast in Kamloops and Prince George is for 9 mm and 8 mm of precipitation, respectively.	



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 - 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 #	06-Sep	Daily Mean	Historic Mean	Deviation from Historical Mean	Historic Year Range
<u>Fraser River Mainstem</u>					
1	Fraser River @ Qualark	17.6	16.5	1.1	1991-2020
2	Fraser River @ Texas Creek	16.5	15.8	0.7	2006-2025
3	Fraser River @ Marguerite	16.3	15.8	0.5	2015-2025
4	Upper Fraser @ Shelley	13.7	12.5	1.2	1994-2025
<u>Fraser River Tributaries</u>					
5	Thompson R. @ Ashcroft	18.4	17.9	0.5	1995-2025
6	South Thompson @ Chase	19.1	18.7	0.4	1994-2025
7	North Thompson @ McLure	14.8	14.3	0.5	2006-2025
8	Quesnel R. @ Quesnel	17.4	16.3	1.1	2000-2025
9	Nechako R. @ Isle Pierre	17.2	16.3	0.9	2006-2025
10	Stuart R. @ Ft. St. James	17.0	15.8	1.2	2000-2025



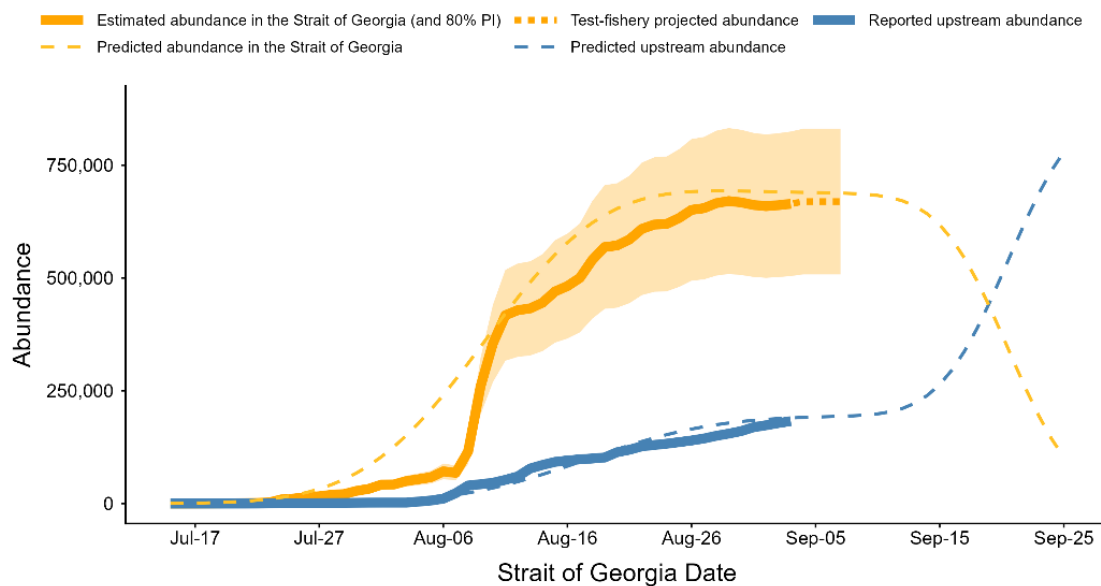
6d: Gulf Abundance Update

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

- 670,000 (80% prediction interval ranging from 509,000 to 831,000)

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.

Cumulative abundance of delaying Late run stocks in the Strait of Georgia versus at Mission (Sep 08, 2026)



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	● 2,975,000	2,608,000	3,396,000	Sum	2,282,000	13,000	5,000	675,000		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	✓ 1,651,000	1,629,000	1,681,000	Sum	1,629,000	13,000	4,000	5,000	10-Aug	13-Aug	09-Aug	09-Aug	10-Aug	Recon
Harrison / Widgeon		119,000	● 30,000	18,000	43,000	Marine N	24,000	0	1,000	5,000		08-Aug	04-Aug	25-Jul	06-Aug	Marine N
Late Stuart / Stellako		804,000	✓ 217,000	217,000	218,000	Recon(2)	217,000	0	0	0		10-Aug	03-Aug	03-Aug	03-Aug	Recon(2)
Chilko		1,742,000	✓ 728,000	722,000	736,000	Recon(2)	718,000	8,000	2,000	0		13-Aug	11-Aug	11-Aug	11-Aug	Recon(2)
Quesnel		1,592,000	✓ 635,000	632,000	641,000	Recon(2)	630,000	4,000	1,000	0		14-Aug	10-Aug	10-Aug	10-Aug	Recon(2)
Raft / North Thompson		49,000	✓ 41,000	40,000	43,000	Recon(2)	40,000	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	711,000	1,447,000	Sum	385,000	0	1,000	670,000	07-Aug	20-Aug	08-Aug	07-Aug	14-Aug	Weight
Birkenhead Group ⁶		615,000	✓ 174,000	173,000	177,000	Recon	173,000	0	1,000	0		22-Aug	12-Aug	12-Aug	16-Aug	Recon
L Shuswap / Weaver Gr. ⁷		1,597,000	◇ 882,000	538,000	1,270,000	Marine N	212,000	0	0	670,000		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 Catch + escapement + 6-day test fish projection + model seaward projection

Recon(2) Catch + escapement + model projections

Sum Sum of individual groups

Weight Weighted average of individual groups

Marine N 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