File: 71007

DRAFT AGENDA
PSC Fraser River Panel Distribution

FRP distribution: Tuesday, September 16, 2025

	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		
☐		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) Run size and timing estimates		
☐		f) Predicted allowable harvest based on run size and DBE scenarios		
☐		g) Criteria for fishing decisions table		
	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		
		d) Updated TAC table		
	8)	**Fisheries recommendations**		
		a) Canadian and U.S. proposals		Panel
☐		b) Staff catch evaluation based on proposed fisheries		PSC staff
		c) Canadian and U.S. evaluation		Panel
		d) Panel decision		
☐	9)	Assessments from other areas	5 min	PSC staff
☐	10)	Other business:	5 min	Panel
☐	11)	Next FRP meeting and agenda	2 min	PSC staff/Panel
	12)	Next TC meeting: January 12		PSC staff
☐	13)	Data acknowledgements		

Legend: ☑ Content included in the distribution
☐ 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

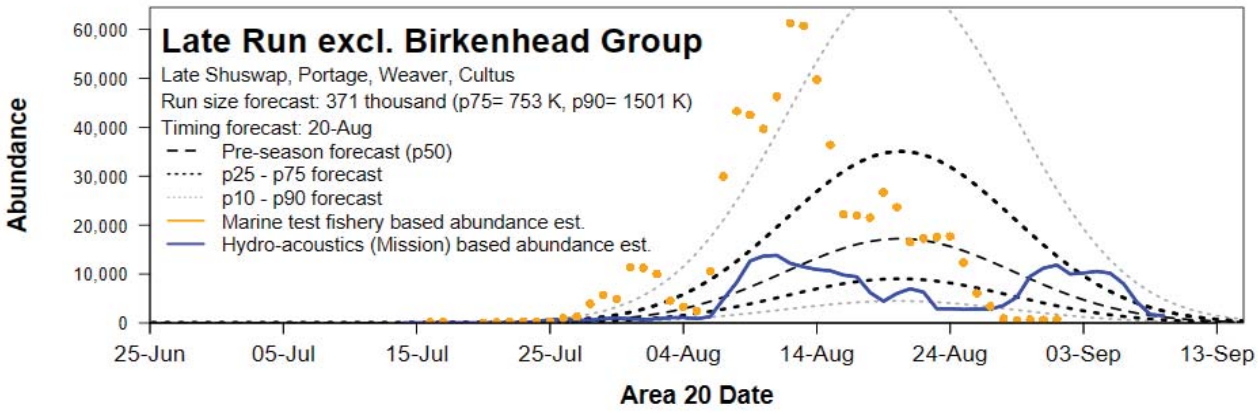
2025 Run status of Fraser sockeye and pink salmon

Date: Sep. 16, 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: Sep. 14 - Sep. 20, 2025	Sockeye					Pink
	Management Group				Total	Total
	E.Stuart	E.Summer	Summer	Late	Fraser	Fraser
Mission passage (incldes Pitt, Alouette, Coquitlam)	731,900	375,700	6,110,900	657,900	7,876,400	15,356,900
Catch downstream of Mission	3,900	34,900	783,100	119,100	941,000	1,231,500
Accounted Run To Date	735,800	410,600	6,894,000	777,000	8,817,400	16,588,400
Run size adopted in-season [1]	**725,000**	**400,000**	**7,000,000**	**1,150,000**	**9,275,000**	**12,500,000**
Run size forecasted pre-season	116,000	221,000	2,136,000	468,000	2,941,000	26,965,000
Area 20 timing adopted in-season	**6-Jul**	**1-Aug**	**11-Aug**	**14-Aug**	**11-Aug**	**13-Aug**
Area 20 timing expected pre-season	8-Jul	3-Aug	15-Aug	20-Aug	14-Aug	21-Aug
Johnstone Str. Diversion Rate				Annual average to date	**45%**	**12%**
				Preseason forecast of annual rate:	64%	36%

[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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4b. Catch-to-date by fishery

2025 Catch-to-date by fishery

Date: Sep. 16, 2025

Week of: Sep. 14 - Sep. 20, 2025	Sockeye		Pink	
	Total	Fraser	Total	Fraser
Canada	**911,894**	**904,607**	**248,858**	**116,487**
Commercial	**160,098**	**159,342**	**59,587**	**28,015**
B Purse Seine	96,850	96,215	46,510	18,081
D Gillnet	24,132	24,033	3,547	1,445
E Gillnet	35,137	35,137	6,447	6,447
H Troll	3,979	3,957	3,083	2,042
First Nations	**735,120**	**728,602**	**119,482**	**55,739**
Food, Social & Ceremonial (FSC)	664,164	657,646	97,710	33,967
Marine	242,837	236,514	84,339	20,596
Fraser R.	421,327	421,132	13,371	13,371
Economic Opportunity (EO) & Demonstration (Demo)	70,956	70,956	21,772	21,772
Single Stock FSC (SS FSC)	**0**	**0**	**0**	**0**
Recreational	**2,322**	**2,310**	**68,363**	**31,308**
Charter (Albion & A12 Chum test fishery)	**749**	**749**	**1,426**	**1,426**
Other****	**13,605**	**13,605**	**0**	**0**
United States	**304,108**	**303,969**	**1,434,774**	**1,118,881**
Commercial	**297,378**	**297,240**	**1,434,774**	**1,118,881**
Treaty Tribes (TRB)	217,950	217,935	821,945	617,741
All Citizen (AC)	79,428	79,305	612,829	501,139
Treaty Tribes Ceremonial & Subsistence (C&S)	**6,730**	**6,729**	**0**	**0**
All Citizen Recreational	**0**	**0**	**0**	**0**
Other****	**0**	**0**		
Alaska *	**na**	**na**	**na**	**na**
Panel-approved Test Fisheries	**33,834**	**33,072**	**22,111**	**15,712**
Panel Waters	**24,154**	**23,886**	**20,131**	**15,003**
Canada	23,410	23,156	19,319	14,722
U.S.	744	730	812	281
Non-Panel Waters**	**9,680**	**9,185**	**1,980**	**709**
Total	**1,249,836**	**1,241,648**	**1,705,743**	**1,251,080**
Catch Seaward of Mission ***	949,263	941,075	1,686,213	1,231,549
Catch Upstream of Mission	300,573	300,573	19,530	19,530

** 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*

4c. Release mortalities

2025 Release Mortalities-to-date by fishery

(release mortalites are excluded from catch

Date: Sep. 16, 2025

Week of: Sep. 14 - Sep. 20, 2025	Sockeye releases		Release mortality	
	Total	Fraser	Total	Fraser
Canada	**8,557**	**8,471**	**754**	**745**
Commercial	**266**	**266**	**27**	**27**
B Purse Seine	0	0	0	0
D Gillnet	0	0	0	0
E Gillnet	0	0	0	0
H Troll	266	266	27	27
First Nations ****	**3,530**	**3,530**	**251**	**251**
Food, Social & Ceremonial (FSC)	3,526	3,526	251	251
Marine	0	0	0	0
Fraser R.	3,526	3,526	251	251
Economic Opportunity (EO) & Demons	4	4	0	0
Single Stock FSC (SS FSC)	**0**	**0**	**0**	**0**
Recreational	**4,681**	**4,596**	**468**	**460**
Charter (Albion & A12 Chum test fishery)	**0**	**0**	**0**	**0**
Other**	**80**	**80**	**10**	**8**
United States	**19,622**	**19,615**	**4,913**	**4,911**
Commercial	**19,622**	**19,615**	**4,913**	**4,911**
Treaty Tribes (TRB)	0	0	0	0
All Citizen (AC)	19,622	19,615	4,913	4,911
Treaty Tribes Ceremonial & Subsistence (C&S)	**0**	**0**	**0**	**0**
All Citizen Recreational	**0**	**0**	**0**	**0**
Other**	**0**	**0**	**0**	**0**
Alaska *	**na**	**na**	**na**	**na**
Panel-approved Test Fisheries	**289,394**	**277,147**	**28,421**	**27,737**
Panel Waters	**289,393**	**277,146**	**28,420**	**27,736**
Canada	283,697	277,146	28,392	27,736
U.S.	5,696	0	29	0
Non-Panel Waters	**1**	**1**	**1**	**1**
Total	**317,573**	**305,233**	**34,088**	**33,393**
Catch Seaward of Mission ***	313,966	301,626	33,834	33,139
Catch Upstream of Mission	3,582	3,582	256	256

** Alaska does not report release mortalities*

***May include releases and release mortalities unauthorized directed retention or unauthorized bycatch retention in fisheries directed at other species*

**** All releases and release mortalities in marine areas and in the Fraser River downstream of Mission.*

***** As of Aug 7, these releases include 1,597 dipnet/rod and reel releases in a sanctioned Chinook fishery*

4d. TAC table

			Fraser Sockeye					Fraser Pinks	
			Early Stuart	Early Summer	Summer	Lates	Total		Total
RUN STATUS, ESCAPEMENT NEEDS & AVAILABLE SURPLUS									
Pre-season or Adopted In-season Run Size			725,000	400,000	7,000,000	1,150,000	9,275,000		12,500,000
Adult Spawning Escapement Target (SET)			580,000	200,000	3,500,000	575,000	4,855,000		6,000,000
%SET from TAM rules			80%	50%	50%	50%			48%
Management Adjustment (MA)			1,078,800	108,000	1,890,000	598,000	3,674,800		0
Proportional MA (pMA)			1.86	0.54	0.54	1.04			0.00
Adjusted Spawning Escapement Target (SET) *			725,000	308,000	5,390,000	1,150,000	7,573,000		6,000,000
Test Fishing (TF)			5,320	2,300	24,000	2,600	34,220		15,000
Surplus above Adjusted SET & Test fishing			0	89,700	1,586,000	0	1,675,700		6,485,000
DEDUCTIONS & TAC FOR INTERNATIONAL SHARING									
Aboriginal Fishery Exemption (AFE)			0	23,887	376,113	0	400,000		0
Total Deductions (Adj. SET + TF + Available AFE)			730,320	334,187	5,790,113	1,152,600	8,007,220		6,015,000
Available TAC for International Sharing			0	65,813	1,209,887	0	1,275,700		6,485,000
UNITED STATES (Washington) TAC									
Proportionally Distributed TAC **		16.5%	0	10,860	199,630	0	210,490	25.7%	1,666,650
U.S. Payback **		-0.2%	0	-120	-2,270	0	-2,390		0
Proportionally Distributed TAC + Payback			0	10,740	197,360	0	208,100		1,666,650
Treaty Tribes Share **		67.7%	0	7,230	132,880	0	140,110	50.0%	833,325
All Citizen Share		32.3%	0	3,510	64,480	0	67,990	50.0%	833,325
CANADA TAC									
Aboriginal Fishery Exemption (AFE)			0	23,887	376,113	0	400,000		0
Canadian TAC + AFE			0	78,960	1,388,640	0	1,467,600		4,818,350
CATCH-TO-DATE									
Test			5,310	2,260	23,230	2,270	33,070		15,710
Treaty Tribes (Wash.) / Ceremonial (TRB)			0	5,070	186,550	33,040	224,660		617,740
All Citizen (Wash.)			0	2,320	65,330	11,660	79,310		501,140
Other (Wash.)***			0	0	0	0	0		0
Washington			0	7,390	251,880	44,700	303,970		1,118,880
First Nations Catch (including AFE)			3,590	34,390	566,590	53,080	657,650		33,970
Planned Charter & Recreational Shares			60	60	2,390	552	3,059		32,730
Other***			3,400	1,690	8,480	30	13,600		0
Total Commercial (including FN EO/Demo****)			0	6,650	197,730	25,930	230,300		49,790
Canada			7,050	42,790	775,190	79,590	904,610		116,490
Total Catch in All Fisheries			12,360	52,440	1,050,300	126,560	1,241,650		1,251,080
Exploitation Rate (catch-to-date / run size)			1.7%	13.1%	15.0%	11.0%	13.4%		10.0%
Fisheries induced mortalities (Canada, U.S. & TF)			79	1,109	27,388	4,817	33,393		
Exploit. Rate with fishery-induced mortality included			1.7%	13.4%	15.4%	11.4%	13.7%		
CATCH REMAINING (BALANCE)									
Washington			0	3,350	-54,520	-44,700	-95,870		547,770
Canada			-7,050	36,170	613,450	-79,590	562,980		4,701,860
Balance Remaining [below share / -above share]			-7,050	39,520	558,930	-124,290	467,110		5,249,630

* 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).
Pink: 25.7% of the TAC - payback (maximum of 5% of share)

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

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

2025 Fraser Sockeye Test Fishing & Escapement Summary

Area/Gear Location From A20	Fraser River							
	A29-16 GN Whonnock (+6 days)	Whon CPUE Estimate (+6 days)	Qualark GN Catch (+8 days)	Qualark Estimate[1]	Qualark Method[2]	Mission Hydroacoustics Estimate[3] (+6 days)	Mission Hydroacoustics Method[4]	Hells Gate Estimates[5] (+10 days)
26-Aug	104	8.32	119	273,686	RB + LB	246,300	A1+M2+A2	72,410
27-Aug	43	3.36	94	290,909	RB + LB	202,000	A1+M2+A2	*No Count*
28-Aug	16	1.25	103	448,523	RB + LB	51,700	CPUE-Wh-Avg	59,410
29-Aug	20	1.60	97	541,653	RB + LB	37,000	CPUE-Wh-Avg	31,870
30-Aug	20	1.60	63	529,888	RB + LB	59,800	CPUE-Wh-Avg	*No Count*
31-Aug	50	3.98	37	315,204	RB + LB	66,300	CPUE-Wh-Avg	*No Count*
1-Sep	34	2.58	42	294,818	RB + LB	59,600	CPUE-Wh-Avg	42,370
2-Sep	11	0.90	25	218,399	RB + LB	20,800	CPUE-Wh-Avg	15,610
3-Sep	11	0.88	32	159,683	RB + LB	20,400	CPUE-Wh-Avg	7,980
4-Sep	5	0.40	31	252,943	RB + LB	9,300	CPUE-Wh-Avg	6,170
5-Sep	10	0.81	6	133,709	RB + LB	18,700	CPUE-Wh-Avg	*No Count*
6-Sep	14	1.13	15	105,034	RB + LB	26,100	CPUE-Wh-Avg	*No Count*
7-Sep	8	0.64	11	97,083	RB + LB	14,800	CPUE-Wh-Avg	*No Count*
8-Sep	12	0.97	5	47,939	RB + LB	22,400	CPUE-Wh-Avg	2,290
9-Sep	13	1.04	14	59,470	RB + LB	24,100	CPUE-Wh-Avg	1,850
10-Sep	7	0.56	6	18,566	RB + LB	13,000	CPUE-Wh-Avg	1,430
11-Sep	10	0.80	8	35,213	RB + LB	18,500	CPUE-Wh-Avg	1,480
12-Sep	8	0.64	2	12,513	RB + LB	14,800	CPUE-Wh-Avg	770
13-Sep	3	0.24	2	10,174	RB + LB	5,600	CPUE-Wh-Avg	*No Count*
14-Sep	0	0.00	3	13,271	RB + LB	0	CPUE-Wh-Avg	*No Count*
15-Sep	2	0.17	2			3,900	CPUE-Wh-Avg	630
16-Sep								
17-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)

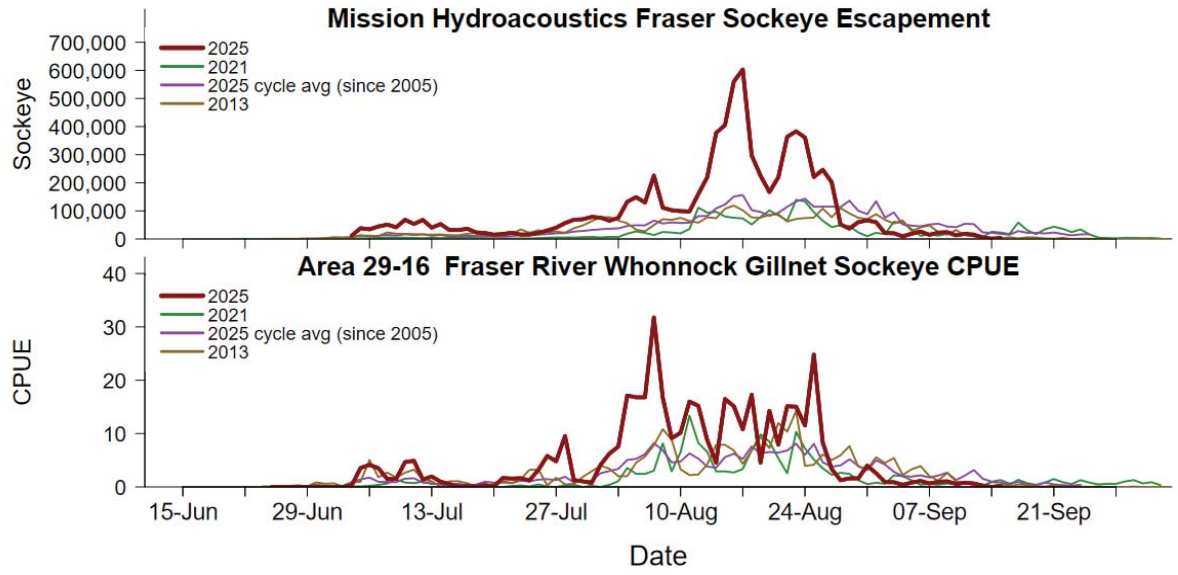
[3] Mission escapement estimate - does not include Pitt

[4] Mission Source:

A1+M2+A2 = Left-bank ARIS (A1) + Mobile ARIS (M2) + Right-bank ARIS (A2)

CPUE-Wh-Avg = Whonnock CPUE * In-season expansion line (3-day average)

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



5a_Test Fishing & Escapement Summary_Pinks

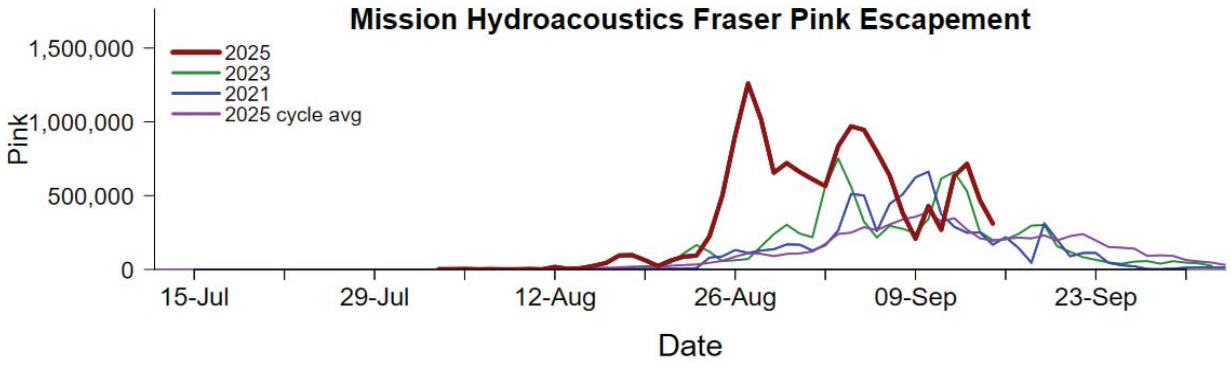
2025 Fraser Pink Test Fishing & Escapement Summary

Area/Gear	Fraser River							
	A29-16 GN	Whon CPUE	Qualark			Mission Hydroacoustics		Hell's Gate
Location	Whonnock	Estimate	GN Catch	Estimate	Method[1]	Estimate	Method[2]	Estimates[3]
From A20								
26-Aug	277	22.16	30	68,997	RB + LB	907,890	CPUE-Wh-CC	18,890
27-Aug	121	9.53	37	114,507	RB + LB	1,259,710	CPUE-Wh-CC	*No Count*
28-Aug	50	3.97	62	269,985	RB + LB	1,019,000	A1+M2+A2	30,060
29-Aug	118	9.44	60	338,533	RB + LB	654,810	A1+M2+A2	55,790
30-Aug	114	9.12	27	227,095	RB + LB	720,580	A1+M2+A2	*No Count*
31-Aug	50	3.96	31	264,090	RB + LB	660,700	A1+M2+A2	*No Count*
1-Sep	57	4.31	25	175,487	RB + LB	610,910	A1+M2+A2	108,550
2-Sep	58	4.70	25	209,663	RB + LB	565,120	A1+M2+A2	130,530
3-Sep	168	13.44	51	254,495	RB + LB	835,930	A1+M2+A2	46,540
4-Sep	234	18.79	16	139,555	RB + LB	969,880	A1+M2+A2	45,220
5-Sep	193	15.50	13	248,317	RB + LB	945,540	A1+M2+A2	*No Count*
6-Sep	209	16.75	31	217,070	RB + LB	796,450	A1+M2+A2	*No Count*
7-Sep	154	12.33	22	194,166	RB + LB	634,740	A1+M2+A2	*No Count*
8-Sep	77	6.18	14	134,230	RB + LB	383,920	A1+M2+A2	29,740
9-Sep	135	10.80	36	152,922	RB + LB	208,030	A1+M2+A2	34,430
10-Sep	570	45.60	42	129,965	RB + LB	429,310	A1+M2+A2	59,200
11-Sep	186	14.88	21	92,434	RB + LB	268,600	A1+M2+A2	44,590
12-Sep	202	16.16	12	75,079	RB + LB	632,920	A1+M2+A2	24,970
13-Sep	166	13.28	14	71,216	RB + LB	715,730	A1+M2+A2	*No Count*
14-Sep	126	9.99	17	75,201	RB + LB	469,900	A1+M2+A2	*No Count*
15-Sep	67	5.65	18			311,010	A1+M2+A2	12,300
16-Sep								
17-Sep								

[1] Qualark source:
RB + LB = Right-bank (RB) + Left-bank (LB)

[2] Mission source:
BB-CPUE-Avg = 3-day Average Pink CPUE at Brownsville Bar x Expansion Line
CPUE-Wh-CC = Catchability Correction Model
A1+M2+A2 = Left-bank ARIS (A1) + Mobile ARIS (M2) + Right-bank ARIS (A2)

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



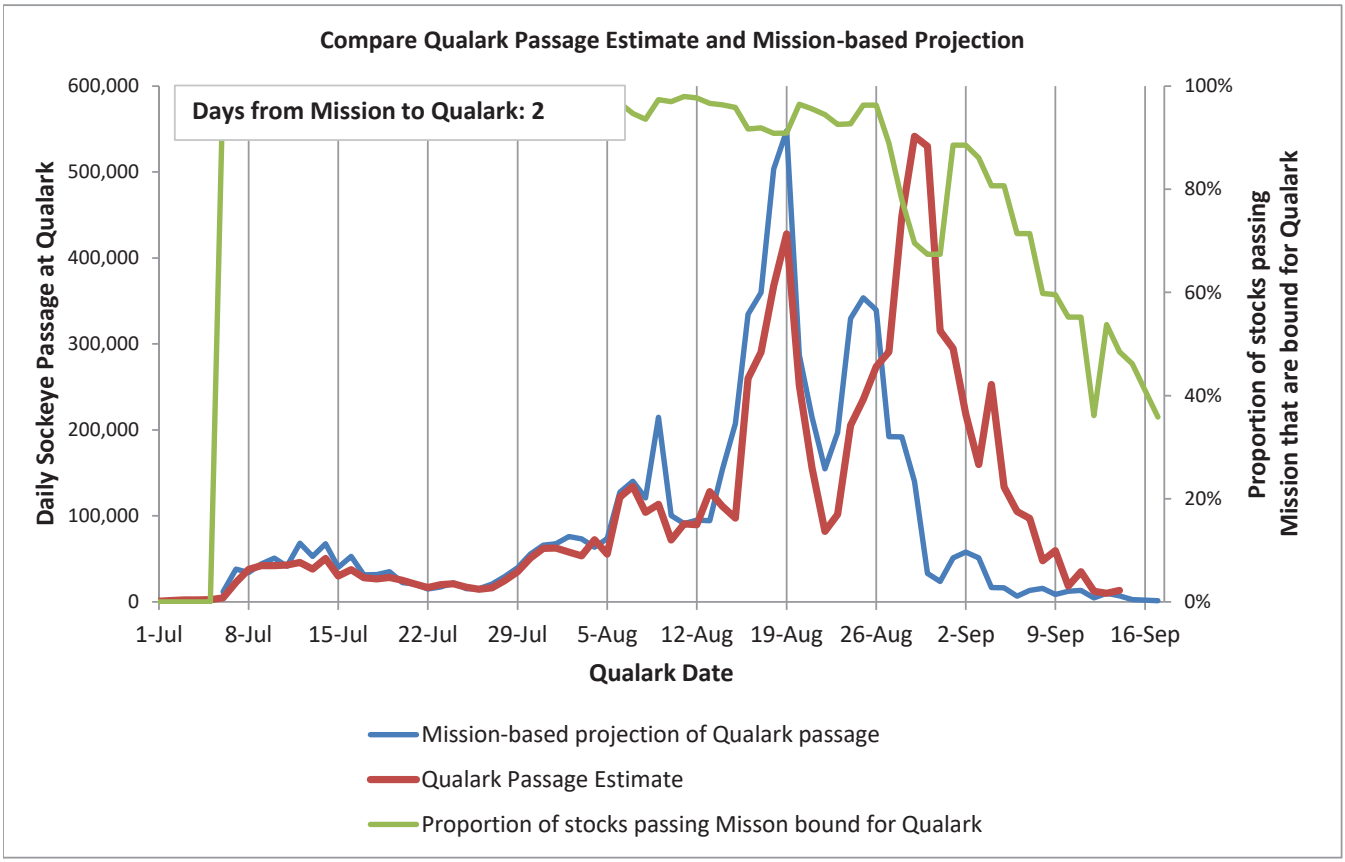
5b. Comparison of predictions from Mission to Qualark

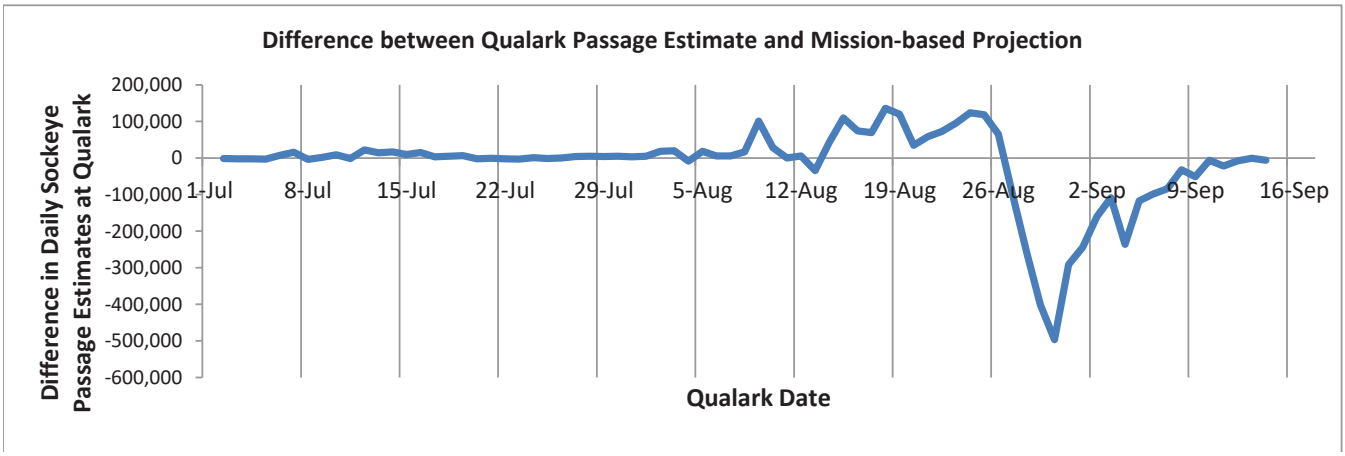
Year: **2025**

Date: 16-Sep-25

Time: 9:14 AM

	All Days	*Common Days
Mission projection	7,135,995	7,132,011
Qualark estimate	8,416,291	8,406,647
	Difference	**-1,274,636**
	%Difference	**(18%)**





5d. Fraser River Sockeye Salmon Stock identification Review

Recent stock composition estimates for sockeye salmon

						Fraser-only Stock Proportions by Reporting Group[4] (%)														Age (%)
						Early Stuart	Early Summer					Summer					Late				
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	Overall Stocks Age-4$_2$
Johnstone Strait & Queen Charlotte Strait																					
Juan de Fuca Strait & Washington & Other																					
In-river																					
AB gn	tf	Sep4-6	DNA	29	100%	0%					0%	7%	3%	24%	3%	38%	10%	21%	32%	62%	92%
AB gn	tf	Sep7-8	DNA	20	100%	0%			5%		5%	15%		15%	5%	35%		25%	35%	60%	83%
AB gn	tf	Sep9-10	DNA	20	100%	0%					0%		5%	40%	1%	46%		4%	50%	54%	94%
AB gn	tf	Sep11-13	DNA	21	100%	0%					0%	5%	5%	17%	6%	33%	5%	17%	45%	67%	88%

2025 Fraser River Pink Salmon Stock identification Review

Recent stock composition estimates for pink salmon

					DNA % Estimates by Group		
Area/Gear[1]	Sector[2]	Date	Type[3]	Size (n)	Fraser River	Washington	BC South Coast
Johnstone Strait							
A12 PS	TF	Aug19	DNA	97	58%	30%	12%
A12 PS	TF	Aug26	DNA	96	51%	30%	19%
A12		Sep16	Prediction	1	80%	15%	5%
Juan de Fuca Strait							
A20 PS	TF	Aug12	DNA	100	62%	31%	7%
A20 PS	TF	Aug21	DNA	96	42%	54%	4%
A20		Sep16	Prediction	1	81%	18%	1%
Washington							
A7 PS	CM	Aug18	DNA	96	86%	6%	9%
A7A PS	CM	Aug28	DNA	95	80%	13%	7%
A7		Sep16	Prediction	1	95%	4%	1%
A7A		Sep16	Prediction	1	94%	4%	1%

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

[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

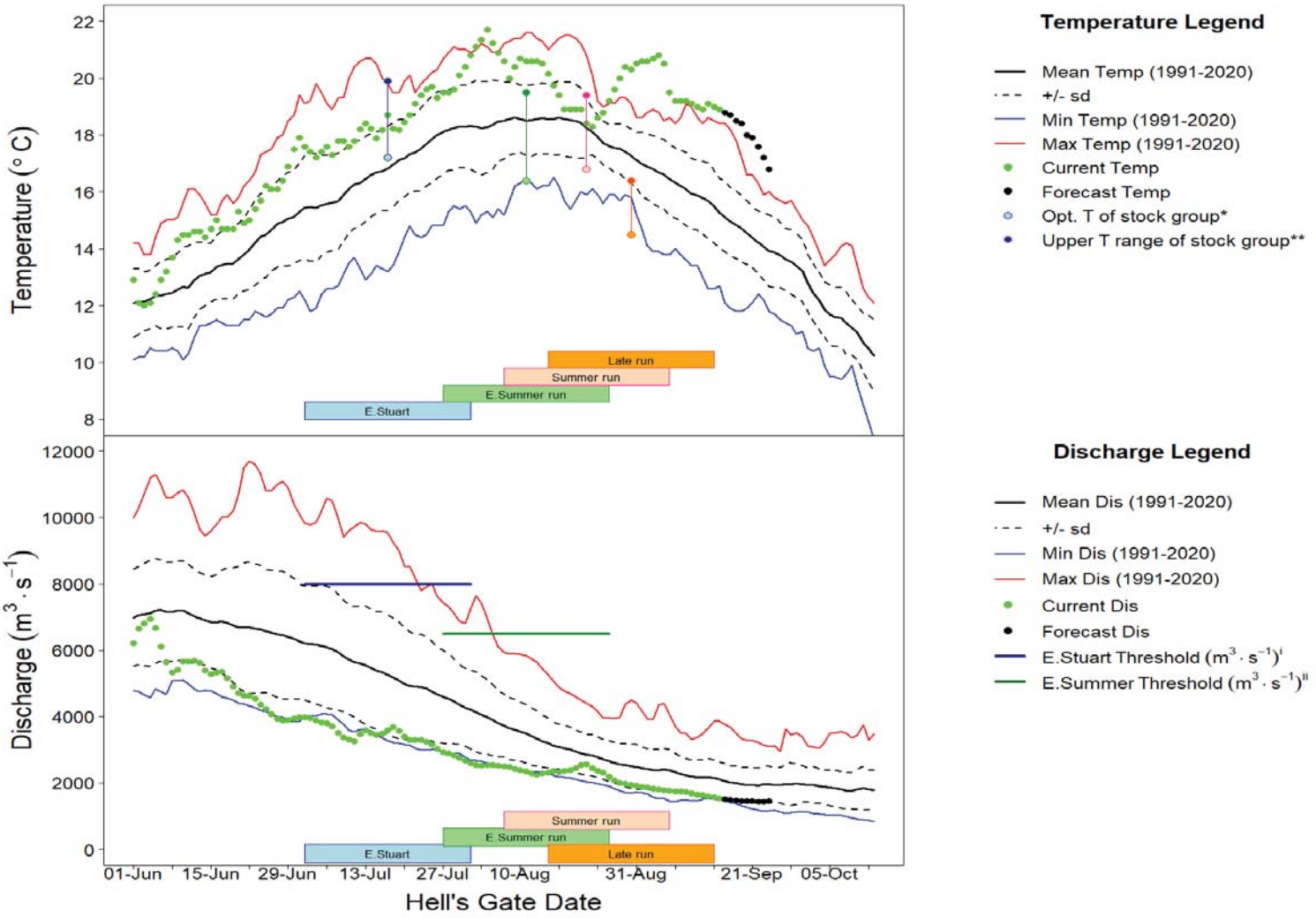
Fraser River Environmental Report for September 15, 2025

Observed Fraser River Temperature at Qualark for 15-Sep	18.9°C
Average (1991-2020) Historical Temperature on this day	15.3°C
Deviation from Average	3.6°C
Forecast Temperature for 21-Sep-25	17.9°C

The forecast in Kamloops and Prince George is for above average temperature for the entire forecast period.
**Satellite communications with real-time sites are currently down. As a result, Qualark data is being estimated using Fraser River at Hope with a correction applied until the issue is resolved.*

Observed Fraser River Discharge at Hope for 15-Sep	1538 $m^3 \cdot s^{-1}$
Average (1991-2020) Historical Discharge on this day	2110 $m^3 \cdot s^{-1}$
% above or below Historical Discharge	-27%
Forecast Discharge for 21-Sep-25	1447 $m^3 \cdot s^{-1}$

The forecast in Kamloops and Prince George is for 6 mm and 26 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 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 14-Sep	Daily Mean	Historic Mean	Deviation from Historical Mean	Historic Year Range
	Fraser River Mainstem				
1	Fraser River @ Qualark	19.0	15.5	3.5	1991-2020
2	Fraser River @ Texas Creek	na	14.9	na	2006-2024
3	Fraser River @ Marguerite	16.7	13.9	2.8	2015-2024
4	Upper Fraser @ Shelley	na	11.6	na	1994-2024
	Fraser River Tributaries				
5	Thompson R. @ Ashcroft	19.4	16.9	2.5	1995-2024
6	South Thompson @ Chase	21.0	17.8	3.2	1994-2024
7	North Thompson @ McLure	16.7	13.4	3.3	2006-2023
8	Quesnel R. @ Quesnel	17.7	14.4	3.3	2000-2024
9	Nechako R. @ Isle Pierre	17.4	15.0	2.4	2006-2024
10	Stuart R. @ Ft. St. James	17.9	14.4	3.5	2000-2024

6e 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% PIs[2] 10% PI	Inseason 80% PIs[2] 90% PI	Method	Catch + Escapement	6-day Projection[3]	Seaward Abundance	Migration Delay	Inseason Adopted	Preseason Forecast	Inseason estimate	Inseason 80% PIs[2] 10% PI	Inseason 80% PIs[2] 90% PI	Method
Total Fraser sockeye	**9,275,000**	**2,941,000**	✓	**9,240,000**	***8,818,000***	***9,426,000***	**Sum**	**8,818,000**	**0**	**0**	**422,000**		**14-Aug**	**10-Aug**	***10-Aug***	***11-Aug***	**Recon**
Early Stuart Run	**725,000**	**116,000**	✓	**736,000**	***736,000***	***736,000***	**Recon**	**736,000**	**0**	**0**	**0**	**06-Jul**	**08-Jul**	**06-Jul**	***06-Jul***	***06-Jul***	**Recon**
Early Summer Run	**400,000**	**221,000**	✓	**411,000**	***411,000***	***411,000***	**Recon**	**411,000**	**0**	**0**	**0**	**01-Aug**	**03-Aug**	**01-Aug**	***01-Aug***	***01-Aug***	**Recon**
Chilliwack		15,000	✓	4,000	4,000	4,000	Recon	4,000	0	0	0		18-Jul	21-Jul	21-Jul	21-Jul	Recon
Nadina Group[4]		80,000	✓	221,000	*221,000*	*221,000*	Recon	221,000	0	0	0		31-Jul	01-Aug	*01-Aug*	*01-Aug*	Recon
Pitt/Alouette/Coquitlam		46,000	✓	18,000	*18,000*	*18,000*	Recon	18,000	0	0	0		04-Aug	31-Jul	*31-Jul*	*31-Jul*	Recon
Early Thompson[5]		80,000	✓	167,000	*167,000*	*167,000*	Recon	167,000	0	0	0		07-Aug	02-Aug	*02-Aug*	*02-Aug*	Recon
Summer Run	**7,000,000**	**2,136,000**	✓	**6,894,000**	***6,894,000***	***6,894,000***	**Sum**	**6,894,000**	**0**	**0**	**0**	**11-Aug**	**15-Aug**	**11-Aug**	***11-Aug***	***11-Aug***	**Recon**
Harrison / Widgeon		46,000	✓	90,000	*90,000*	*90,000*	Recon	90,000	0	0	0		09-Aug	10-Aug	*10-Aug*	*10-Aug*	Recon
Late Stuart / Stellako		889,000	✓	2,014,000	*2,014,000*	*2,014,000*	Recon	2,014,000	0	0	0		14-Aug	09-Aug	*09-Aug*	*09-Aug*	Recon
Chilko		928,000	✓	4,060,000	*4,060,000*	*4,060,000*	Recon	4,060,000	0	0	0		14-Aug	12-Aug	*12-Aug*	*12-Aug*	Recon
Quesnel		260,000	✓	508,000	*508,000*	*508,000*	Recon	508,000	0	0	0		18-Aug	13-Aug	*13-Aug*	*13-Aug*	Recon
Raft / North Thompson		14,000	✓	222,000	*222,000*	*222,000*	Recon	222,000	0	0	0		23-Aug	13-Aug	*13-Aug*	*13-Aug*	Recon
Late Run	**1,150,000**	**468,000**	▲	**1,199,000**	***777,000***	***1,385,000***	**Recon**	**777,000**	**0**	**0**	**422,000**	**14-Aug**	**20-Aug**	**13-Aug**	***11-Aug***	***14-Aug***	**Recon**
Birkenhead Group		97,000	✓	505,000	*505,000*	*505,000*	Recon	505,000	0	0	0		21-Aug	15-Aug	*15-Aug*	*15-Aug*	Recon
L.Shuswap / Weaver Gr.		371,000	◇	694,000	*272,000*	*880,000*	Recon	272,000	0	0	422,000		20-Aug	13-Aug	*08-Aug*	*14-Aug*	Recon
Fraser Pink salmon	**12,500,000**	**26,965,000**	◆	**17,116,000**	**16,910,000**	**17,352,000**	**Recon**	**16,588,000**	**527,000**	**1,000**	**0**	**13-Aug**	**21-Aug**	**14-Aug**	**14-Aug**	**14-Aug**	**Recon**

[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.

Methods for run size & timing estimation

Recon	Catch + escapement + 6-day test fish projection + model seaward projection
Sum	Sum of individual groups

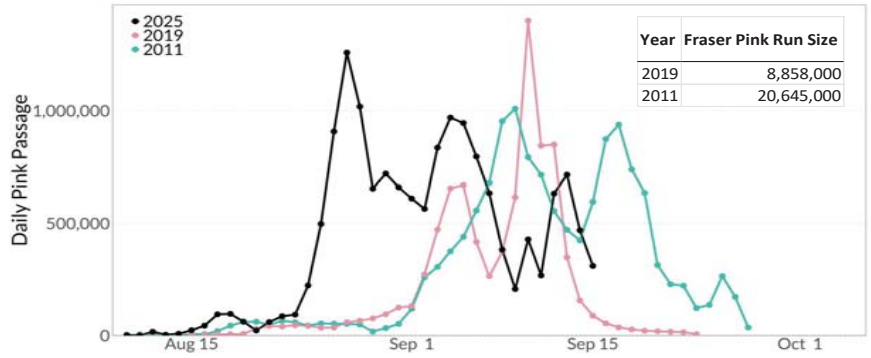
Run Size Uncertainty Legend†

- ✓ ≥ 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 fo 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 indciation 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 indciation 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 Run	42,000	72,000	116,000	202,000	319,000
Early Summer Run	55,000	103,000	221,000	448,000	820,000
Summer Run	522,000	991,000	2,136,000	4,749,000	10,003,000
Late Run	118,000	238,000	468,000	994,000	1,996,000
Pink Salmon Run	12,585,000	17,738,000	26,965,000	39,168,000	57,854,000



Year	Fraser Pink Run Size
2019	8,858,000
2011	20,645,000