

2022 FRASER RIVER SOCKEYE ESCAPEMENT

Inseason Update

These updates provide general information from operational Sockeye salmon escapement estimation field studies in the Fraser River, including enumeration fences, mark-recapture studies, sonar projects and visual surveys. They are intended to provide in-season information on run timing and relative abundance, environmental conditions on the spawning grounds (water temperatures and levels), fish condition and behaviour. These data are not escapement estimates and should not be interpreted as such.

EARLY SUMMER RUN

North / South Thompson

Scotch Creek

The counting fence at Scotch Creek was fish-tight and operational as of August 10. The fence was removed on September 18 with a total of 64,024 Sockeye counted into the creek (Table 3). Sockeye are past peak spawning. Carcass recovery surveys for the determination of sex ratio and spawning success are ongoing. The water temperature in Scotch Creek is 10°C. This is the final update for this project.

Eagle River

The Eagle River hydroacoustic site was operational August 10. A total of 63,693 Sockeye have been estimated past the sonar site through September 16 (Table 4). Early Summer Sockeye in the Eagle River are past peak die off. The water temperature in Eagle River is 14°C. This Early Summer component of the project is now complete. Migration after September 16 will be reported as the Eagle River Late Run population.

Seymour River

The final day of hydroacoustic operations on the Seymour River was September 15; a total of 30,707 Sockeye have been estimated into the system (Table 5). Carcass recovery surveys for the determination of sex ratio and spawning success are ongoing. Sockeye in the Seymour River are past peak spawning. The water temperature in the Seymour River is 13°C. This is the final update from this project.

Visual Surveys

Cyclic visual surveys of the early summer populations in the North/South Thompson system began August 17. Live counts, dead recovery and water temperatures from surveys conducted during the current reporting period are reported in Table 1. Sockeye in the North/South Thompson system are past peak die-off. Final carcass recovery surveys are being conducted this week. This is the final update from this project.

Lower Fraser

Visual Surveys

Cyclic visual surveys began on August 2. Live counts, dead recovery and water temperatures from surveys conducted during the current reporting period are reported in Table 1. Sockeye in the upper Pitt River and tributaries and upper Chilliwack River are past peak die-off; surveys are now complete. The last scheduled survey of the Nahatlatch River on September 14 was cancelled due to poor weather conditions and wildfire smoke. This project is now complete as well.

Nechako

Nadina River Spawning Channel

The Nadina River Spawning Channel was operational August 27. As of September 21, 36,391 Sockeye have been loaded into the channel (Table 6). Sockeye in the channel are nearing the end of peak spawning. The water temperature in the channel is 16°C (afternoon temperature). This is the final update for Nadina Channel.

Nadina River

The Nadina River hydroacoustic site was operational July 28. In-season estimates of daily Sockeye passage will be reported through the duration of Sockeye arrival to Nadina River. Daily Sockeye migration to the Nadina River is nearing completion. As of September 20, an estimated 283,527 Sockeye have migrated past the Nadina hydroacoustic site (Table 7). Note that Nadina River Sockeye are included in daily migration totals at the Stellako River hydroacoustic site downstream. The water temperature in the Nadina River is 15°C (afternoon temperature).

Carcass recovery surveys began on August 30. Sockeye in Nadina River are past peak spawning. To date, a total of 8,446 carcasses have been recovered. Crews report that the proportion of pre-spawn mortalities among female carcasses recovered continues to slowly decline. Sockeye were also observed during an aerial survey of Glacier Creek (tributary of Nadina Lake) on September 17 (Table 1).

Seton-Anderson

Gates Creek

The fifth and final visual survey of Gates Creek was conducted on September 17. Live counts, dead recovery and water temperatures from surveys conducted during the current reporting period are reported in Table 1. Sockeye in Gates Creek are past peak spawning. This project is now complete.

Upper Fraser

There were no further surveys conducted on the upper Bowron River and tributaries during the current reporting period. This project is now complete.

SUMMER RUN

Chilko

The Chilko River hydroacoustic site was operational August 4. In-season estimates of daily Sockeye passage will be reported through the duration of Sockeye arrival. Sockeye migration into the system has remained steady during the current reporting period with an estimated 617,655 Sockeye past the hydroacoustic site as of September 20 (Table 8). Sockeye in the river are in the early stages of spawning while Sockeye in the northern portion of Chilko Lake are in or past peak spawning. The water temperature in Chilko River is 11°C.

Quesnel

Hydroacoustics

The Quesnel River hydroacoustic site was operational August 5. In-season estimates of daily Sockeye passage will be reported through the duration of Sockeye arrival to the Quesnel Lake system (Table 9). Sockeye migration into the system has decreased since the previous reporting period. As of September

20, an estimated 788,930 Sockeye have migrated past the hydroacoustic site. The water temperature in Quesnel River is 13°C.

Visual surveys

Cyclic visual surveys in the Quesnel system began August 24. Live counts, dead recovery and water temperatures from surveys conducted during the current reporting period are reported in Table 1. Sockeye in the system are in or approaching peak spawning at most sites. Survey data from the second aerial survey of the Horsefly River, Little Horsefly River and Moffat Creek on September 20 were unavailable for this update.

Nechako

Stellako River

The Stellako River hydroacoustic site was operational July 30. In-season estimates of daily Sockeye passage will be reported through the duration of Sockeye arrival to the Stellako River. Given the decreased numbers of migrants at the Nadina hydroacoustic site, the majority of Sockeye passing the Stellako are assumed to be Stellako-bound. As of September 20, an estimated 416,895 Sockeye have passed the Stellako site (Table 10). Sockeye in the Stellako River are primarily holding. The water temperature in the Stellako River is 13°C.

Late Stuart

Cyclic visual surveys in the Late Stuart system began September 8. Live counts, dead recovery and water temperatures from surveys conducted during the current reporting period are reported in Table 1. Sockeye are approaching peak spawning in the Tachie and Middle rivers and in peak spawning in Kuzwka River and Pinchi Creek.

North Thompson

Cyclic visual surveys of summer run populations in the North Thompson system began August 16. Live counts, dead recovery and water temperatures from surveys conducted during the current reporting period are reported in Table 1. The second ground survey of the North Thompson River was conducted on September 18. Water clarity in the North Thompson River was characterized as poor for the current reporting period. Sockeye in the Raft River are past peak die-off, and surveys there are now complete.

Mid-Fraser

The second survey of the Bridge River was conducted on September 16 (Table 1). Sockeye are reported to be in peak spawning. This is the final update from this project.

LATE RUN

Harrison-Lillooet

Birkenhead River

The Birkenhead River hydroacoustic site was operational on August 18. In-season estimates of daily Sockeye passage will be reported through the duration of Sockeye arrival to the Birkenhead River. Daily numbers of Sockeye migrating into the river have decreased since the previous reporting period; a total of 118,751 Sockeye have been estimated past the hydroacoustic site through September 20 (Table 11). Sockeye in the Birkenhead River are reported to be at the end of peak spawning. The water temperature in Birkenhead River is 10°C.

Visual surveys

Cyclic visual surveys of late run populations in the Harrison-Lillooet system began August 22. Live counts, dead recovery and water temperatures from surveys conducted during the current reporting period are reported in Table 1. Sockeye in Big Silver Creek, Sampson Creek and Green River are past peak spawning. Crews describe water levels in the Green River as very low.

South Thompson

Eagle River

The Eagle River hydroacoustic site was operational August 10. Migration through September 16th is reported as the Eagle River Early Summer Run population. Daily Late Run Sockeye migration into the system is in the early stages; a total of 2,327 Sockeye have been estimated past the sonar site from September 17 through September 20 (Table 12). The water temperature in Eagle River is 11.0°C.

Shuswap River

The Shuswap River hydroacoustic site was operational September 14. In-season estimates of daily Sockeye passage will be reported through the duration of Sockeye arrival to Shuswap River. Daily Sockeye migration into the system is in the early stages; a total of 5,757 Sockeye have been estimated past the sonar site through September 20 (Table 13). The water temperature in Shuswap River is 16°C

Adams River

A mark-recapture assessment will be used to estimate spawning escapement for the Adams River Late Run population this year. This project method does not provide observations of daily or weekly arrivals to the spawning area. However, live counts of the entire spawning area from Adams Lake to Shuswap Lake will be conducted on an opportunistic basis for planning purposes. The first such survey was completed on September 21, yielding a live count of only 7 Sockeye.

Cultus Lake

The counting fence at Sweltzer Creek was fish-tight as of July 25. As of September 21, 40 Sockeye have been manually counted through the fence or passively recorded on video (Table 2), and an additional 58 retained for broodstock. Broodstock collection began on August 31. The water temperature in Sweltzer Creek is 18°C.

The next scheduled update will be on Thursday, September 29.

Table 1. Live counts and number of Sockeye carcasses recovered on streams surveyed during the current reporting period ('-' indicates no survey conducted). **Note: These data are not escapement estimates and should not be interpreted as such.**

SYSTEM	Water					Water				
	Date	Survey #	Temp. (°C)	Live Count	Cumulative Carcasses Recovered	Date	Survey #	Temp. (°C)	Live Count	Cumulative Carcasses Recovered
<u>SETON-ANDERSON</u>										
Gates Creek	17-Sep	5	7.0	444	488	-	-	-	-	-
Haylmore Creek	-	-	-	-	-	-	-	-	-	-
Spruce Creek	-	-	-	-	-	-	-	-	-	-
<u>EARLY SOUTH THOMPSON</u>										
Adams River, lower	-	-	-	-	-	-	-	-	-	-
Adams River, upper	21-Sep	5	9.0	86	117	-	-	-	-	-
Anstey River	16-Sep	5	11.0	580	403	-	-	-	-	-
Burton Creek	-	-	-	-	-	-	-	-	-	-
Cayenne Creek	-	-	-	-	-	-	-	-	-	-
Celista Creek	20-Sep	5	10.0	10	5	-	-	-	-	-
Craigellachie Creek	15-Sep	3	10.0	0	2	-	-	-	-	-
Crazy Creek	21-Sep	4	7.0	1	304	-	-	-	-	-
Four Mile Creek	-	-	-	-	-	-	-	-	-	-
Four Mile Creek - Shore	-	-	-	-	-	-	-	-	-	-
Hiuihill Creek	17-Sep	4	8.0	48	321	-	-	-	-	-
Hunakwa Creek	-	-	-	-	-	-	-	-	-	-
Loftus Creek	16-Sep	3	10.0	0	42	-	-	-	-	-
McNomee Creek	20-Sep	5	9.0	191	3,187	-	-	-	-	-
Momich River, lower	-	-	-	-	-	-	-	-	-	-
Nikwikaia Creek	17-Sep	4	10.0	62	252	-	-	-	-	-
Perry River	15-Sep	3	11.0	67	24	-	-	-	-	-
Sinmax Creek	-	-	-	-	-	-	-	-	-	-
Yard Creek	19-Sep	4	9.0	0	607	-	-	-	-	-
<u>NORTH THOMPSON</u>										
Barriere River, upper	-	-	-	-	-	-	-	-	-	-
Harper Creek	-	-	-	-	-	-	-	-	-	-
Lemieux Creek	18-Sep	5	10.0	0	0	-	-	-	-	-
Lion Creek	-	-	-	-	-	-	-	-	-	-
Mann Creek	-	-	-	-	-	-	-	-	-	-
North Thompson River	18-Sep	2	11.0	46	13	-	-	-	-	-
Raft River	20-Sep	6	9.0	223	1,486	-	-	-	-	-
<u>LOWER FRASER RIVER</u>										
Chilliwack Lake	20-Sep	6	17.0	-	133	-	-	-	-	-
Chilliwack River, upper	20-Sep	7	8.0	-	75	-	-	-	-	-
Depot Creek	-	-	-	-	-	-	-	-	-	-
Nahatlatch Lakes	-	-	-	-	-	-	-	-	-	-
Nahatlatch River	-	-	-	-	-	-	-	-	-	-
Paleface Creek	-	-	-	-	-	-	-	-	-	-
<u>Upper Pitt</u>										
Corbold Creek	17-Sep	4	9.0	726	661	-	-	-	-	-
Cypress Creek	-	-	-	-	-	-	-	-	-	-
Fish Hatchery Creek	17-Sep	3	12.0	4	1	-	-	-	-	-
North Boise Creek	16-Sep	4	13.0	49	3	-	-	-	-	-
Olsen Creek	16-Sep	3	13.0	17	8	-	-	-	-	-
Pitt River, upper	15-Sep	4	11.0	-	1,601	-	-	-	-	-
South Boise Creek	16-Sep	3	12.0	182	46	-	-	-	-	-
Steve Creek	-	-	-	-	-	-	-	-	-	-
Upper Pitt Channel	17-Sep	3	9.0	645	1,090	-	-	-	-	-
<u>NECHAKO</u>										
Glacier Creek	17-Sep	1 ^a	-	123	-	-	-	-	-	-
<u>UPPER FRASER</u>										
Bowron River, upper	-	-	-	-	-	-	-	-	-	-

Continued

Table 1. Live counts and number of Sockeye carcasses recovered on streams surveyed during the current reporting period ('-' indicates no survey conducted). **Note: These data are not escapement estimates and should not be interpreted as such.**

SYSTEM										
	Date	Survey #	Water Temp. (°C)	Live Count	Cumulative Carcasses Recovered	Date	Survey #	Water Temp. (°C)	Live Count	Cumulative Carcasses Recovered
Huckey Creek	-	-	-	-	-	-	-	-	-	-
Indianpoint Creek	-	-	-	-	-	-	-	-	-	-
<u>MID FRASER</u>										
Bridge River	16-Sep	2	-	1,920	204	-	-	-	-	-
<u>QUESNEL SYSTEM</u>										
Cariboo River, low er	21-Sep	1 ^a	-	7	-	-	-	-	-	-
Cariboo River, upper	21-Sep	2 ^a	-	223	-	-	-	-	-	-
<u>Horsefly River</u>										
Horsefly River	15-Sep	4 ^a	15.0	127,650	-	-	-	-	-	-
Little Horsefly River	15-Sep	4 ^a	-	1,909	-	17-Sep	5	15.0	3,839	45
McKinley Creek, low er	18-Sep	4	15.0	8,418	3,114	-	-	-	-	-
McKinley Creek, upper	15-Sep	1 ^a	-	492	-	-	-	-	-	-
Moffat Creek	-	-	-	-	-	-	-	-	-	-
<u>Mitchell River</u>										
Cameron Creek	21-Sep	1 ^a	-	1,840	-	-	-	-	-	-
Mitchell River	21-Sep	4 ^a	12.0	58,747	-	-	-	-	-	-
Penfold Creek	21-Sep	1 ^a	-	191	-	-	-	-	-	-
<u>Quesnel Lake - East Arm</u>										
Big Slide Shore	-	-	-	-	-	-	-	-	-	-
Bill Miner Creek	19-Sep	2	7.0	0	0	-	-	-	-	-
Blue Lead Creek	19-Sep	4	7.0	234	5	-	-	-	-	-
Bouldery Creek	19-Sep	2	7.0	38	3	-	-	-	-	-
Killdog Creek	-	-	-	-	-	-	-	-	-	-
Lynx Creek	19-Sep	3	8.0	228	1	-	-	-	-	-
North Shore	19-Sep	3	14.0	1,134	17	-	-	-	-	-
South Shore	19-Sep	3	14.0	634	3	-	-	-	-	-
Summit Creek	19-Sep	4	10.0	433	61	-	-	-	-	-
<u>Quesnel Lake - North Arm</u>										
Deception Point	20-Sep	4	15.0	5,282	106	-	-	-	-	-
East Shore	20-Sep	4	15.0	1,522	71	-	-	-	-	-
Grain Creek	20-Sep	3	8.0	536	15	-	-	-	-	-
Isaiah Creek	-	-	-	-	-	-	-	-	-	-
Long Creek	-	-	-	-	-	-	-	-	-	-
Roaring River	20-Sep	4	6.0	436	97	-	-	-	-	-
Wasko Creek, low er	20-Sep	4	15.0	6,046	608	-	-	-	-	-
Watt Creek	21-Sep	4	6.0	163	40	-	-	-	-	-
West Shore	20-Sep	3	15.0	1,404	43	-	-	-	-	-
<u>LATE STUART</u>										
Kazchek Creek	18-Sep	3	10.0	30	0	-	-	-	-	-
Kuzkw a River	16-Sep	3 ^b	14.0	2,143	21	20-Sep	4 ^b	12.0	1,720	115
Middle River	18-Sep	3	14.0	7,958	1	-	-	-	-	-
Pinchi Creek	15-Sep	2	13.0	226	4	19-Sep	3	13.0	430	10
Tachie River	17-Sep	3	16.0	1,236	4	21-Sep	4	13.0	16,939	10
<u>HARRISON-LILLOOET</u>										
Big Silver Creek	18-Sep	5	11.0	580	85	-	-	-	-	-
Cogburn Creek	18-Sep	5	11.0	2	3	-	-	-	-	-
Green River	21-Sep	3	7.0	543	96	-	-	-	-	-
Miller Creek	15-Sep	1	-	0	0	-	-	-	-	-
Ow I Creek	-	-	-	-	-	-	-	-	-	-
Pemberton Creek	21-Sep	2	7.0	0	0	-	-	-	-	-
Railroad Creek	15-Sep	4	10.0	0	0	-	-	-	-	-
Sampson Creek	15-Sep	4	8.0	448	43	-	-	-	-	-

^a Aerial Survey

^b Partial Survey

Table 2. Daily fence counts of Sockeye salmon through Sweltzer Creek, 2010-2022.

Date	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	
													Lake	Brood
11-Jul	-	-	-	-	-	-	0	-	-	-	-	-	-	-
12-Jul	-	-	-	-	-	-	0	-	-	-	-	-	-	-
13-Jul	-	-	-	-	-	-	0	-	-	-	-	-	-	-
14-Jul	-	-	-	-	-	-	0	-	-	-	-	-	-	-
15-Jul	-	-	-	-	-	-	0	-	-	-	-	-	-	-
16-Jul	-	-	-	-	-	-	0	-	-	-	-	-	-	-
17-Jul	-	-	-	-	-	-	0	-	-	-	-	-	-	-
18-Jul	-	-	-	-	-	-	0	-	-	-	-	-	-	-
19-Jul	-	-	-	-	-	-	0	-	-	-	-	-	-	-
20-Jul	-	-	-	-	-	0	0	-	-	-	-	-	-	-
21-Jul	-	0	-	-	-	0	0	-	-	-	-	-	-	-
22-Jul	-	0	-	-	-	0	0	-	-	-	-	-	-	-
23-Jul	-	0	-	-	-	0	0	-	-	-	-	-	-	-
24-Jul	-	0	-	-	-	0	0	-	-	-	-	-	-	-
25-Jul	-	0	-	-	-	0	0	-	-	-	-	-	0	0
26-Jul	-	0	-	-	-	0	0	-	-	-	-	-	0	0
27-Jul	-	0	-	-	-	0	0	-	-	-	-	-	0	0
28-Jul	1	0	-	-	0	0	0	-	-	-	0	0	0	0
29-Jul	0	0	-	-	0	0	0	-	-	-	1	0	0	0
30-Jul	2	0	-	1	0	0	0	-	-	-	0	0	0	0
31-Jul	4	0	0	0	0	0	0	0	-	-	0	0	0	0
1-Aug	1	0	0	0	0	0	0	0	2	0	0	0	0	0
2-Aug	4	0	0	0	1	0	0	0	0	0	0	0	0	0
3-Aug	5	0	0	0	0	0	3	0	0	0	0	0	0	0
4-Aug	0	0	0	4	0	0	1	0	0	0	0	0	1	0
5-Aug	21	1	0	0	4	0	9	0	0	0	0	0	0	0
6-Aug	18	1	1	1	0	0	2	0	1	0	0	0	0	0
7-Aug	9	2	0	5	0	0	4	1	2	0	0	0	0	0
8-Aug	18	7	2	2	2	0	2	0	2	0	0	0	0	0
9-Aug	11	3	0	4	1	0	8	0	0	0	1	0	1	0
10-Aug	15	5	3	5	2	1	24	4	0	0	0	0	1	0
11-Aug	5	2	3	6	2	1	11	3	3	0	1	0	0	0
12-Aug	34	0	3	3	1	4	48	5	0	0	0	0	0	0
13-Aug	51	3	5	0	2	1	15	0	0	0	0	0	0	0
14-Aug	30	5	6	1	0	1	64	4	1	0	0	1	0	0
15-Aug	8	5	15	2	1	1	36	1	0	0	0	-1	0	0
16-Aug	7	1	10	3	0	0	69	7	0	0	2	0	1	0
17-Aug	25	5	4	1	2	6	80	3	0	0	3	1	3	0
18-Aug	7	7	3	5	2	2	101	10	0	0	5	0	0	0
19-Aug	35	2	7	3	14	1	45	1	1	0	1	0	1	0
20-Aug	33	2	10	2	15	1	21	8	0	0	1	0	0	0
21-Aug	47	1	17	1	18	1	39	1	0	0	0	0	1	0
22-Aug	52	4	27	1	26	1	43	0	0	0	9	0	0	0
23-Aug	54	11	22	2	6	4	67	6	0	0	4	0	0	0
24-Aug	60	7	13	5	5	9	64	3	0	0	0	0	0	0
25-Aug	58	3	23	2	4	9	62	1	0	0	6	0	0	0
26-Aug	35	9	50	1	5	5	68	2	1	0	9	0	0	0
27-Aug	27	6	54	3	11	16	73	2	0	0	2	0	1	0
28-Aug	41	5	34	9	5	31	84	6	1	0	4	0	0	0
29-Aug	30	9	13	16	6	27	45	4	0	0	6	1	0	0
30-Aug	18	4	19	21	10	41	101	12	0	1	3	1	0	0
31-Aug	20	2	16	12	4	42	174	8	0	0	2	0	3	0
1-Sep	29	4	8	24	4	34	87	8	0	1	4	0	0	2
2-Sep	16	2	18	36	4	17	91	5	0	0	3	0	0	1
3-Sep	54	9	47	31	15	11	61	7	0	0	6	1	1	0
4-Sep	72	2	48	30	26	51	89	1	0	0	7	0	1	0
5-Sep	33	8	55	31	28	67	159	9	1	0	6	2	7	0
6-Sep	39	5	25	59	35	104	91	13	2	1	4	2	0	2
7-Sep	31	10	51	161	28	100	69	11	1	1	3	2	1	1
8-Sep	41	10	29	141	24	127	54	19	1	2	13	3	0	1
9-Sep	45	16	37	79	6	20	38	31	3	0	10	1	0	1

Continued

Table 2. Daily fence counts of Sockeye salmon through Sweltzer Creek, 2010-2022, continued.

Date	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	
													Lake	Brood
10-Sep	61	25	38	145	9	10	78	31	1	1	6	3	2	0
11-Sep	53	24	10	95	14	17	50	36	3	4	5	2	5	0
12-Sep	34	55	10	70	13	21	29	32	2	3	2	3	2	0
13-Sep	28	114	9	122	12	25	34	30	5	15	0	7	0	3
14-Sep	78	206	9	161	11	34	34	31	1	15	2	1	0	4
15-Sep	94	203	21	190	9	20	18	43	0	25	3	2	1	2
16-Sep	92	236	25	115	6	13	34	25	1	4	2	2	0	5
17-Sep	69	142	39	88	7	24	37	38	1	8	3	1	1	2
18-Sep	113	221	41	33	12	3	68	16	2	3	4	22	0	0
19-Sep	34	153	50	42	38	3	25	14	3	6	3	31	0	7
20-Sep	546	65	33	61	20	25	16	5	3	0	2	2	0	15
21-Sep	190	89	32	68	25	71	13	11	6	0	6	3	6	12
22-Sep	134	183	37	141	16	62	12	7	12	3	2	7		
23-Sep	103	451	13	161	56	22	16	7	13	3	0	3		
24-Sep	154	272	13	136	286	23	26	7	8	0	15	3		
25-Sep	226	318	7	130	241	8	8	20	5	0	6	4		
26-Sep	430	276	2	64	276	16	4	7	3	0	2	0		
27-Sep	939	1182	7	42	314	10	4	3	5	0	0	15		
28-Sep	719	730	3	46	323	9	4	3	8	0	0	13		
29-Sep	1345	548	5	54	284	2	7	7	9	1	5	11		
30-Sep	653	262	1	53	268	8	7	5	10	0	2	9		
1-Oct	423	200	2	79	367	24	7	0	20	1	0	17		
2-Oct	523	57	0	75	179	12	4	0	14	0	3	6		
3-Oct	328	128	3	31	266	6	1	3	10	0	0	0		
4-Oct	216	128	0	33	129	7	2	1	10	0	0	6		
5-Oct	102	141	0	58	55	5	1	0	13	0	0	10		
6-Oct	78	61	1	37	48	6	3	0	17	0	0	6		
7-Oct	39	25	1	26	53	14	2	8	14	0	1	7		
8-Oct	36	22	1	34	49	18	1	21	47	3	1	13		
9-Oct	22	6	1	23	52	21	55	6	25	5	0	1		
10-Oct	56	79	0	21	31	39	22	3	23	1	4	1		
11-Oct	254	58	1	26	32	11	7	2	11	0	4	7		
12-Oct	206	212	0	10	27	33	3	1	13	0	2	3		
13-Oct	155	69	1	27	23	13	5	1	5	0	0	6		
14-Oct	76	52	8	18	162	12	7	1	1	0	1	0		
15-Oct	50	23	12	22	156	11	10	0	1	0	0	1		
16-Oct	76	21	27	21	108	1	2	2	2	1	1	2		
17-Oct	35	21	9	5	45	1	9	37	4	0	1	3		
18-Oct	18	10	0	8	17	3	2	31	1	4	1	0		
19-Oct	29	16	1	11	20	2	2	15	2	0	0	0		
20-Oct	22	21	1	6	7	1	8	27	2	0	2	0		
21-Oct	15	21	1	11	15	3	5	11	5	1	0	0		
22-Oct	20	16	0	12	8	1	2	10	0	4	0	0		
23-Oct	13	21	0	8	21	0	2	8	3	0	0	6		
24-Oct	16	22	0	5	22	0	2	6	4	1	0	1		
25-Oct	18	21	0	9	22	2	0	9	0	6	0	2		
26-Oct	41	12	0	12	26	2	0	5	2	1	0	4		
27-Oct	66	4	1	6	13	1	1	4	27	0	0	9		
28-Oct	25	9	0	12	2	1	2	3	20	0	0	1		
29-Oct	6	11	0	6	3	0	0	-1	17	0	1	71		
30-Oct	13	11	0	5	16	3	1	0	0	0	0	15		
31-Oct	15	10	0	9	20	3	0	0	2	0	0	8		
1-Nov	53	2	0	4	14	0	1	0	17	0	0	9		
2-Nov	43	2	0	6	5	3	0	1	14	0	0	4		
3-Nov	44	4	0	19	10	2	1	2	2	0	0	2		
4-Nov	14	3	1	10	8 ^a	1	1	0	2	1	0	1		
5-Nov	52	1	0	4	6 ^a	0	1	1	7	0	3	6		
6-Nov	27	1	0	5	6 ^a	-1	-1	1	6	0	0	17		
7-Nov	71	3	0	5	6 ^a	-3	4	1	5	1	1	12		
8-Nov	29	0	0	35	4 ^a	-2	-2	-1	-2	0	0	6		
9-Nov	14	2	0	3	4 ^a	-2	3	-1	-1	1	0	0		

Continued

Table 2. Daily fence counts of Sockeye salmon through Sweltzer Creek, 2010-2022, continued.

Date	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	
													Lake	Brood
10-Nov	9	1	0	3	4 ^a	2	0	0	1	0	0	0	0	
11-Nov	12	0	0	0	4 ^a	-1	3	-	0	0	0	0	1	
12-Nov	2	4	0	0	0	1 ^a	-	-	1	0	0	0	0	
13-Nov	27	0	0	6	2	1 ^a	-	-	1	0	0	0	1	
14-Nov	7	0	0	3	0	0	-	-	1	0	0	0	4 ^b	
15-Nov	12	0	0	3	2	0	-	-	2	0	0	0	0 ^b	
16-Nov	4	0	0	2	0	0	-	-	3	0	0	0	0 ^b	
17-Nov	0	0	0	4	2	0	-	-	2	2	0	0	0 ^b	
18-Nov	1	0	0	0	1	0	-	-	1	0	0	0	0 ^b	
19-Nov	1	0	0	4	0	-	-	-	1	0	0	0	0 ^b	
20-Nov	0	-	0	0	0	-	-	-	0	1	0	0	0 ^b	
21-Nov	0	-	-	0	0	-	-	-	0	1	0	0	0 ^b	
22-Nov	0	-	-	0	0	-	-	-	1	0	0	0	0	
23-Nov	0	-	-	0	0	-	-	-	1	0	0	0	0	
24-Nov	0	-	-	0	0	-	-	-	2	0	0	0	0 ^b	
25-Nov	0	-	-	0	0	-	-	-	-2	0	0	0	-	
26-Nov	0	-	-	0	0	-	-	-	4	0	0	0	-	
27-Nov	0	-	-	0	0	-	-	-	1	0	0	0	-	
28-Nov	0	-	-	0	0	-	-	-	-	0	-	-	-	
29-Nov	-	-	-	0	0	-	-	-	-	-	-	-	-	
30-Nov	-	-	-	0	0	-	-	-	-	-	-	-	-	
1-Dec	-	-	-	0	0	-	-	-	-	-	-	-	-	
2-Dec	-	-	-	0	0	-	-	-	-	-	-	-	-	
3-Dec	-	-	-	0	0	-	-	-	-	-	-	-	-	
4-Dec	-	-	-	0	0	-	-	-	-	-	-	-	-	
5-Dec	-	-	-	0	0	-	-	-	-	-	-	-	-	
6-Dec	-	-	-	0	0	-	-	-	-	-	-	-	-	
7-Dec	-	-	-	0	0	-	-	-	-	-	-	-	-	
8-Dec	-	-	-	0	0	-	-	-	-	-	-	-	-	
9-Dec	-	-	-	0	0	-	-	-	-	-	-	-	-	
10-Dec	-	-	-	0	0	-	-	-	-	-	-	-	-	
11-Dec	-	-	-	0	0	-	-	-	-	-	-	-	-	
12-Dec	-	-	-	-	0	-	-	-	-	-	-	-	-	
13-Dec	-	-	-	-	0	-	-	-	-	-	-	-	-	
14-Dec	-	-	-	-	0	-	-	-	-	-	-	-	-	
15-Dec	-	-	-	-	0	-	-	-	-	-	-	-	-	
16-Dec	-	-	-	-	0	-	-	-	-	-	-	-	-	
Total	10,655	7,464	1,155	3,512	4,631	1,419	2,805	792	508	132	212	427	40	58

^a: Partial fence removal due to high water; sockeye may have passed undetected.

^b: All fence panels opened due to high water; sockeye may have passed undetected.

Table 3. Daily fence counts of Sockeye salmon in Scotch Creek, 2012-2022 (data supplied by the Little Shuswap Lake Indian Band).

Date	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
31-Jul	-	-	-	-	-	-	-	-	-	-	-
1-Aug	-	-	-	-	-	-	-	-	-	-	-
2-Aug	-	-	-	-	-	-	-	-	-	-	-
3-Aug	-	-	-	-	-	-	0	-	-	-	-
4-Aug	-	-	0	-	-	-	0	-	-	0	-
5-Aug	-	-	0	-	-	-	0	-	-	0	-
6-Aug	-	-	1	-	-	-	0	0	-	0	-
7-Aug	-	1	0	-	-	-	0	0	0	0	-
8-Aug	-	1	0	-	-	-	0	0	0	0	-
9-Aug	1	1	0	0	0	0	0	0	0	0	-
10-Aug	0	0	1	0	0	0	0	0	0	0	0
11-Aug	0	1	0	0	0	0	0	0	0	0	0
12-Aug	0	2	1	0	0	0	2	0	0	0	5
13-Aug	1	7	0	0	0	0	0	0	0	0	6
14-Aug	0	4	0	0	0	0	2	0	0	1	2
15-Aug	0	0	0	0	0	0	518	0	1	0	0
16-Aug	2	31	66	0	0	0	216	0	0	0	121
17-Aug	0	223	425	1	0	0	1,116	0	0	0	58
18-Aug	1	330	293	3	0	2	1,610	1	1	0	67
19-Aug	0	872	3,219	-1	0	0	4,375	0	0	0	22
20-Aug	0	1,423	2,616	0	0	1	2,712	0	2	2	289
21-Aug	2	4,377	3,083	0	1	6	1,833	0	136	1	255
22-Aug	26	1,998	3,160	10	45	30	1,471	0	198	71	533
23-Aug	83	1,141	5,685	117	259	79	1,165	0	56	330	133
24-Aug	203	950	3,685	156	210	204	7,232	3	172	2,022	1,403
25-Aug	808	527	9,530	96	49	116	19,907	8	255	1,662	3,155
26-Aug	293	1,853	9,380	77	35	593	4,832	63	62	512	2,498
27-Aug	125	1,629	8,373	154	34	541	6,421	261	87	1,051	9,209
28-Aug	55	1,821	4,788	246	79	126	6,496	95	86	1,068	20,639
29-Aug	52	1,216	18,372	538	44	480	2,744	62	69	569	5,336
30-Aug	24	1,018	7,736	443	29	110	1,439	34	91	694	2,640
31-Aug	33	857	6,914	512	26	139	2,306	48	61	729	682
1-Sep	21	719	8,947	882	20	325	1,635	49	25	429	1,221
2-Sep	20	774	6,285	264	7	322	2,176	113	12	1,770	2,125
3-Sep	39	1,090	6,678	330	23	425	2,668	234	0	346	835
4-Sep	8	688	6,990	493	21	223	1,349	127	4	703	1,751
5-Sep	4	814	3,559	206	11	194	1,262	47	9	786	2,784
6-Sep	6	501	2,814	517	9	274	1,413	101	0	585	2,804
7-Sep	6	750	2,641	239	9	108	1,136	59	0	127	1,015
8-Sep	4	644	1,545	218	5	254	375	38	0	237	599
9-Sep	4	471	1,542	240	1	214	20	37	0	225	1226
10-Sep	2	393	1,514	126	4	131	326	54	0	154	784
11-Sep	1	195	1,285	109	3	170	179	42	1	105	568
12-Sep ^a	2	144	1,285	64	1	108	51	49	-	79	491
13-Sep	-	101	1,163	51	2	103	32	26	-	18	163
14-Sep	-	52	705	52	3	29	5	48	-	-	99
15-Sep	-	15	557	17	-	32	83	2 ^a	-	-	211
16-Sep	-	-	335	14	-	29	145	- ^a	-	-	173
17-Sep	-	-	148	-	-	25	39	-	-	-	89
18-Sep	-	-	-	-	-	32	8	-	-	-	33
19-Sep	-	-	-	-	-	31	1	-	-	-	-
20-Sep	-	-	-	-	-	8	81	-	-	-	-
21-Sep	-	-	-	-	-	8	38	-	-	-	-
22-Sep	-	-	-	-	-	16	29	-	-	-	-
23-Sep	-	-	-	-	-	2	-	-	-	-	-
24-Sep	-	-	-	-	-	3	-	-	-	-	-
25-Sep	-	-	-	-	-	2	-	-	-	-	-
Total	1,826	27,634	135,321	6,174	930	5,495	79,448	1,601	1,328	14,276	64,024

^a Fence breached due to high water.

Table 4. In-season expanded daily estimates of Sockeye passage and number of 20 minute counts from the Eagle River (Early Summer) hydroacoustic site, 2018 and 2022.

Date	2018		2022	
	No. of Counts	Sockeye	No. of Counts	Sockeye
10-Aug	13	50	10	180
11-Aug	24	62	24	90
12-Aug	24	125	24	78
13-Aug	24	197	24	216
14-Aug	24	461	24	135
15-Aug	24	665	24	206
16-Aug	24	1,308	24	162
17-Aug	24	1,739	24	515
18-Aug	24	2,346	24	488
19-Aug	24	1,523	24	509
20-Aug	24	2,031	24	857
21-Aug	24	9,620	24	1,632
22-Aug	24	6,045	24	806
23-Aug	24	8,762	24	1,779
24-Aug	24	9,459	24	3,429
25-Aug	24	17,030	24	2,231
26-Aug	18	8,791	24	2,964
27-Aug	15	8,811	24	4,045
28-Aug	18	40,996	24	8,295
29-Aug	16	9,900	24	4,172
30-Aug	24	17,937	24	5,666
31-Aug	24	13,362	24	3,738
1-Sep	24	9,996	24	2,147
2-Sep	24	12,566	24	2,141
3-Sep	24	10,173	24	1,967
4-Sep	24	8,502	24	1,275
5-Sep	24	6,735	24	1,475
6-Sep	24	4,380	24	1,358
7-Sep	24	3,921	24	2,052
8-Sep	24	3,989	24	1,481
9-Sep	24	3,711	24	983
10-Sep	24	1,977	24	854
11-Sep	24	774	24	1,149
12-Sep	24	1,389	24	1,679
13-Sep	24	873	24	1,101
14-Sep	24	1,032	24	785
15-Sep	24	816	24	639
16-Sep	24	1,277	24	423
Total		233,325		63,693

Table 5. In-season expanded daily estimates of Sockeye passage and number of 20 minute counts from the Seymour River hydroacoustic site, 2018.

Date	No. of Counts	Sockeye
10-Aug	13	22
11-Aug	24	3
12-Aug	24	51
13-Aug	24	69
14-Aug	24	45
15-Aug	24	51
16-Aug	24	33
17-Aug	24	153
18-Aug	24	258
19-Aug	24	186
20-Aug	24	393
21-Aug	24	1,197
22-Aug	24	960
23-Aug	24	1,686
24-Aug	24	2,745
25-Aug	24	3,129
26-Aug	24	1,299
27-Aug	19	2,755
28-Aug	11	4,817
29-Aug	24	2,436
30-Aug	24	627
31-Aug	24	261
1-Sep	24	1,194
2-Sep	24	1,095
3-Sep	24	768
4-Sep	24	951
5-Sep	24	603
6-Sep	24	900
7-Sep	24	660
8-Sep	24	459
9-Sep	24	105
10-Sep	24	186
11-Sep	24	0
12-Sep	24	270
13-Sep	24	186
14-Sep	24	0
15-Sep	15	154
Total		30,707

Table 6. Daily fence counts of Sockeye salmon in Nadina River Channel, 2012-2022 (data supplied by SEP).

Date	2012 ^c	2013	2014	2015	2016	2017	2018	2019 ^{d,e}	2020	2021	2022
9-Aug	-	-	-	-	-	-	-	-	-	-	-
10-Aug	-	-	-	-	-	-	-	-	-	-	-
11-Aug	-	555	-	-	-	-	-	-	-	-	-
12-Aug	-	288	-	-	-	-	-	-	-	-	-
13-Aug	-	286	-	-	-	-	-	-	-	-	-
14-Aug	-	78	-	-	-	-	-	-	-	-	-
15-Aug	-	79	-	1,201	250	-	-	-	-	-	-
16-Aug	-	107	-	2,330	1,082	-	-	-	-	-	-
17-Aug	-	160	-	562	445	-	-	-	-	-	-
18-Aug	-	58	-	1,010	281	-	-	-	-	-	-
19-Aug	-	109	2,252	2,138	254	-	-	-	-	-	-
20-Aug	-	150	1,608	895	135	-	14,410	-	-	-	-
21-Aug	-	106	1,900	1,785	118	-	502	-	-	-	-
22-Aug	-	162	1,295	223	209	-	0	-	-	-	-
23-Aug	-	229	1,080	630	434	-	627	-	-	-	-
24-Aug	-	271	1,230	111	122	492	940	-	-	-	-
25-Aug	-	413	1,500	932	99	92	0	-	-	-	-
26-Aug	-	159	1,885	538	129	32	1,212	-	-	-	-
27-Aug	-	293	850	438	441	79	0	-	-	527	5,015
28-Aug	-	425	1,345	588	158	99	770	-	-	235	2,402
29-Aug	-	277	2,585	558	216	49	0	-	-	270	2,012
30-Aug	-	581	2,620	788	270	162	502	-	-	142	2,037
31-Aug	-	285	440	688	416	34	0	-	-	36	5,427
1-Sep	-	107	724	141	192	38	153	-	2,171	110	962
2-Sep	-	351	420	2,711	131	117	0	-	1,431	165	1,490
3-Sep	-	140	500	64	180	33	375	-	653	161	2,427
4-Sep	-	247	671	195	147	35	0	-	842	88	2,030
5-Sep	-	87	-	218	138	45	295	-	1,321	106	517
6-Sep	-	211	450	592	159	150	0	-	1,391	286	489
7-Sep	-	151	550	688	116	45	135	-	941	208	519
8-Sep	-	121	470	525	495	155	0	-	1,049	149	506
9-Sep	-	118	495	478	249	52	73	-	990	116	500
10-Sep	-	152	695	1,262	285	42	0	-	485	236	752
11-Sep	-	232	45	504	189	84	0	-	923	443	1,708
12-Sep	-	93	190	560	138	83	0	-	473	474	2,176
13-Sep	-	106	210	0	225	93	224	-	363	287	2,377
14-Sep	-	78	-	163	186	96	115	-	139	310	0
15-Sep	-	124	55	- ^d	141	80	21	-	403	225	0
16-Sep	-	87	-	- ^d	130	41	25	-	301	225	0
17-Sep	-	71	661	- ^d	96	32	46	-	266	369	1,615
18-Sep	-	13	916	- ^d	966	5	16	-	217	234	1,032
19-Sep	-	42	1,175	- ^d	143	17	124	-	151	140	398
20-Sep	-	14	1,945	- ^d	101	30	82	-	1,300 ^f	136	0
21-Sep	-	600 ^a	202	- ^d	63	24	0	-	0	131	0
22-Sep	-	45	190	- ^d	19	10	1,455	-	30	265	
23-Sep	-	34	-	- ^d	122	10	910	-	20	145	
24-Sep	-	-	-	- ^d	41	4	866	-	8	104	
25-Sep	-	-	-	- ^d	29	5	743	-	9	113	
26-Sep	-	-	-	- ^d	65	0	566	-	0	90	
27-Sep	-	-	-	- ^d	73	2	453	-	14	33	
28-Sep	-	-	-	- ^d	42	-	151	-	0	712	
29-Sep	-	-	-	-	25	-	214	-	11	15	
30-Sep	-	-	-	-	15	-	40	-	3	5	
1-Oct	-	-	-	-	-	-	-	-	4		
Total	8,106	8,295	31,154	23,516	9,960	2,367	26,045	6,649	15,909	7,291	36,391

^a Sockeye that were in the channel but below the counting fence.

^b Daily fence counts not available in 2010 due to fire evacuation in area.

^c No channel diversion fence installed in 2012; estimate based on live counts conducted by SEP staff.

^d Counting fence left open; fish allowed to passively leave or enter the lower leg of the channel.

^e No counting fence. Channel estimate based on SEP channel peak live count of 3,350 Sockeye and 344 carcasses recovered up to and including peak count on Sep 25th.

^f Includes Sockeye between counting fence and deadpitch fence downstream.

Table 7. In-season expanded daily estimates of Sockeye passage and number of 20 minute counts from the Nadina River hydroacoustic site, 2016-2022.

Date	2016		2019		2020		2021		2022	
	No. of Counts	Sockeye	No. of Counts	Sockeye	No. of Counts	Sockeye	No. of Counts	Sockeye	No. of Counts	Sockeye
24-Jul	-	-	-	-	-	-	8	0	-	-
25-Jul	-	-	-	-	-	-	24	0	-	-
26-Jul	-	-	-	-	-	-	19	0	-	-
27-Jul	-	-	-	-	-	-	12	0	-	-
28-Jul	-	-	-	-	-	-	24	0	9	0
29-Jul	-	-	-	-	-	-	24	0	24	0
30-Jul	-	-	-	-	-	-	24	0	24	0
31-Jul	-	-	-	-	-	-	24	0	24	0
1-Aug	-	-	-	-	-	-	24	0	24	0
2-Aug	-	-	8	0	-	-	24	0	24	0
3-Aug	-	-	24	0	-	-	24	0	24	18
4-Aug	-	-	24	0	-	-	24	0	24	0
5-Aug	-	-	24	0	-	-	24	0	24	27
6-Aug	-	-	24	0	-	-	24	15	24	18
7-Aug	10	18	24	0	8	0	24	21	24	57
8-Aug	24	131	24	0	24	0	24	48	24	26
9-Aug	24	474	24	0	24	0	24	66	24	48
10-Aug	24	474	24	0	24	0	24	194	24	21
11-Aug	24	1,715	24	0	24	0	24	210	24	126
12-Aug	24	687	24	0	24	0	24	387	24	698
13-Aug	24	1,685	24	0	24	0	24	282	24	770
14-Aug	24	2,658	24	0	24	0	24	411	24	1,986
15-Aug	24	1,266	24	0	24	0	24	291	24	3,239
16-Aug	24	578	24	0	24	0	24	641	24	7,232
17-Aug	24	570	24	0	24	0	24	177	13	14,049
18-Aug	24	1,389	24	0	24	0	24	353	-	- ^a
19-Aug	24	744	24	6	24	0	24	176	-	- ^a
20-Aug	24	713	24	11	24	0	24	467	13	2,082
21-Aug	24	717	24	21	24	0	18	516	24	11,006
22-Aug	24	452	24	36	24	0	12	174	24	17,010
23-Aug	24	504	24	33	24	0	24	275	24	5,784
24-Aug	24	1,070	24	45	24	3	24	260	24	25,941
25-Aug	24	1,991	24	39	24	15	24	462	24	18,387
26-Aug	24	623	24	69	24	12	24	174	24	13,431
27-Aug	24	713	24	68	22	6	24	138	24	17,522
28-Aug	24	500	24	101	24	66	24	206	24	15,396
29-Aug	24	338	24	60	24	123	24	209	24	13,499
30-Aug	24	227	24	81	24	5,942	24	195	24	34,325
31-Aug	24	150	24	93	24	5,483	24	318	24	19,913

Continued

Table 7. In-season expanded daily estimates of Sockeye passage and number of 20 minute counts from the Nadina River hydroacoustic site, 2016-2022 (continued).

Date	2016		2019		2020		2021		2022	
	No. of Counts	Sockeye	No. of Counts	Sockeye	No. of Counts	Sockeye	No. of Counts	Sockeye	No. of Counts	Sockeye
1-Sep	24	60	24	138	24	2,789	24	441	24	10,527
2-Sep	24	45	24	93	24	3,456	24	531	24	5,457
3-Sep	24	111	24	60	24	2,750	24	360	24	4,286
4-Sep	24	1,238	24	95	24	1,085	24	318	24	7,059
5-Sep	24	957	24	191	24	935	24	582	24	3,576
6-Sep	24	390	24	209	24	576	24	521	24	4,533
7-Sep	24	93	24	378	24	638	24	222	24	5,067
8-Sep	24	167	24	240	24	872	24	621	-	- ^a
9-Sep	24	384	24	405	24	744	24	384	-	- ^a
10-Sep	24	528	24	1,031	24	613	24	231	14	2,818
11-Sep	24	318	24	918	24	472	24	273	24	4,289
12-Sep	24	521	24	764	24	578	24	198	24	2,232
13-Sep	24	392	24	1,158	24	294	24	158	24	1,427
14-Sep	24	197	24	1,206	24	317	24	270	24	1,478
15-Sep	24	165	24	921	24	369	24	230	17	1,334
16-Sep	24	210	24	854	24	276	24	132	16	131
17-Sep	24	156	24	996	24	152	24	81	24	1,710
18-Sep	24	39	24	1,052	24	164	24	189	24	1,302
19-Sep	24	84	24	2,136	24	105	24	57	24	2,694
20-Sep	24	78	24	1,583	24	105	24	18	14	1,003
21-Sep	11	86	24	2,184	24	41	24	90		
22-Sep	-	-	24	1,611	24	57	24	45		
23-Sep	-	-	24	1,347	24	47	24	51		
24-Sep	-	-	24	1,093	10	42	10	86		
25-Sep	-	-	24	396	-	-	-	-		
26-Sep	-	-	24	458	-	-	-	-		
27-Sep	-	-	24	224	-	-	-	-		
28-Sep	-	-	24	237	-	-	-	-		
29-Sep	-	-	24	84	-	-	-	-		
30-Sep	-	-	24	105	-	-	-	-		
1-Oct	-	-	24	48	-	-	-	-		
2-Oct	-	-	24	92	-	-	-	-		
3-Oct	-	-	24	60	-	-	-	-		
4-Oct	-	-	9	18	-	-	-	-		
Total		26,597		23,041		29,119		12,749		283,527

^a SONAR was non-operational due to power failure and/or technical issues.

Table 8. In-season expanded daily estimates of Sockeye passage and number of 20 minute counts from the Chilko River hydroacoustic site, 2018-2022.

Date	2018		2019		2020		2021		2022	
	No. of Counts ^a	Sockeye	No. of Counts ^a	Sockeye	No. of Counts ^a	Sockeye	No. of Counts ^a	Sockeye	No. of Counts ^a	Sockeye
3-Aug	9	64	-	-	-	-	-	-	-	-
4-Aug	34	72	-	-	-	-	-	-	10	72
5-Aug	48	87	-	-	-	-	-	-	33	22
6-Aug	48	69	-	-	-	-	20	7	48	24
7-Aug	48	66	-	-	21	0	48	24	48	30
8-Aug	48	108	-	-	48	0	48	42	48	42
9-Aug	48	108	25	0	48	0	48	15	48	39
10-Aug	48	165	44	0	48	0	48	45	48	72
11-Aug	48	138	30	0	48	0	48	51	48	87
12-Aug	27	395	39	0	48	0	48	39	48	102
13-Aug	30	682	48	0	48	0	48	30	48	75
14-Aug	48	3,234	48	0	48	0	48	30	48	84
15-Aug	48	3,744	48	0	47	0	48	33	48	189
16-Aug	48	3,588	48	0	39	0	48	69	48	216
17-Aug	48	8,925	48	0	48	0	48	180	48	974
18-Aug	48	7,983	48	0	48	-2	48	171	48	1,986
19-Aug	48	13,029	48	0	48	12	48	213	48	3,012
20-Aug	48	14,304	48	0	48	18	48	408	48	5,169
21-Aug	48	14,388	48	0	48	89	48	435	48	5,570
22-Aug	48	16,203	48	0	48	320	48	1,971	48	7,253
23-Aug	48	15,108	48	0	48	498	48	7,074	36	11,384
24-Aug	48	8,934	48	0	48	924	48	7,686	48	9,630
25-Aug	48	10,044	48	0	48	1,134	48	7,794	48	8,759
26-Aug	48	8,991	48	5	48	1,019	48	12,363	48	11,421
27-Aug	48	14,259	48	23	48	728	38	9,534	48	11,829
28-Aug	48	23,070	48	33	48	983	39	16,006	48	11,678
29-Aug	48	25,977	47	28	48	879	48	17,145	48	12,150
30-Aug	48	26,778	43	46	44	2,071	48	20,625	48	11,237
31-Aug	48	25,197	48	72	24	4,644	48	24,663	48	11,141
1-Sep	48	29,385	48	66	39	3,876	48	29,532	48	7,154
2-Sep	48	35,040	48	135	48	3,696	48	34,635	48	6,617
3-Sep	48	31,656	48	297	48	2,622	48	35,328	48	6,354
4-Sep	32	27,304	48	1,047	48	2,336	48	39,090	48	5,714
5-Sep	48	28,866	48	1,968	48	2,910	48	41,586	48	5,846
6-Sep	48	28,155	48	2,540	48	2,861	48	38,943	48	7,993
7-Sep	48	25,029	48	2,712	35	2,086	48	41,499	34	9,405
8-Sep	48	21,411	48	4,286	38	1,849	48	44,070	39	20,853
9-Sep	48	17,274	48	9,455	48	2,597	48	49,620	48	22,658
10-Sep	48	19,002	48	12,036	48	1,818	48	50,232	48	22,503
11-Sep	48	16,203	43	12,930	48	1,346	48	48,687	48	31,980
12-Sep	48	14,448	48	18,726	48	1,031	48	48,348	48	40,446
13-Sep	48	7,539	48	13,062	48	1,340	48	47,477	36	24,416
14-Sep	48	7,185	48	11,834	48	1,679	48	39,794	38	40,658
15-Sep	48	3,435	48	7,262	48	1,122	48	41,486	41	36,873
16-Sep	48	4,452	48	6,857	48	1,233	48	24,663	48	58,257
17-Sep	48	8,748	48	5,576	47	965	48	18,848	33	38,919
18-Sep	48	5,511	48	5,031	47	1,097	48	13,074	48	43,413
19-Sep	48	3,603	42	4,951	39	576	48	11,397	48	34,062

Continued

Table 8. In-season expanded daily estimates of Sockeye passage and number of 20 minute counts from the Chilko River hydroacoustic site, 2018-2022 (continued).

Date	2018		2019		2020		2021		2022	
	No. of Counts ^a	Sockeye	No. of Counts ^a	Sockeye	No. of Counts ^a	Sockeye	No. of Counts ^a	Sockeye	No. of Counts ^a	Sockeye
20-Sep	48	4,188	48	5,384	48	702	48	10,431	48	29,294
21-Sep	48	4,080	48	6,741	48	423	48	11,268		
22-Sep	48	5,673	48	7,196	48	398	48	10,725		
23-Sep	48	5,541	48	5,951	48	411	48	8,694		
24-Sep	48	3,828	48	4,112	48	404	48	6,999		
25-Sep	48	3,111	48	3,012	48	350	48	6,651		
26-Sep	48	2,886	48	4,533	48	441	48	6,462		
27-Sep	48	2,766	48	3,348	48	458	48	5,754		
28-Sep	48	1,758	48	1,875	48	464	48	3,822		
29-Sep	48	1,293	47	842	48	369	48	3,483		
30-Sep	48	747	48	380	48	380	48	3,312		
1-Oct	18	664	48	702	48	288	48	2,409		
2-Oct	-	-	48	498	48	239	48	1,818		
3-Oct	-	-	48	488	48	114	48	1,326		
4-Oct	-	-	20	820	48	123	48	1,011		
5-Oct	-	-	-	-	18	240	18	880		
Total		616,491		166,854		56,153		910,005		617,655

^a Number of 20 min counts includes left and right bank sonar units

Table 9. In-season expanded daily estimates of Sockeye passage and number of 20 minute counts from the Quesnel River hydroacoustic site, 2018-2022.

Date	2018		2019		2021		2022	
	No. of Counts ^a	Sockeye	No. of Counts ^a	Sockeye	No. of Counts ^a	Sockeye	No. of Counts ^a	Sockeye
5-Aug	-	-	-	-	25	6	24	0
6-Aug	-	-	-	-	48	6	48	0
7-Aug	19	2,120	-	-	48	9	48	24
8-Aug	48	2,468	-	-	48	2	48	89
9-Aug	43	2,939	-	-	48	6	48	108
10-Aug	48	5,933	-	-	48	5	48	279
11-Aug	44	7,052	-	-	48	42	48	3,300
12-Aug	33	8,321	16	0	48	27	48	3,125
13-Aug	48	8,295	43	0	48	27	48	5,811
14-Aug	39	14,521	48	0	48	107	48	8,406
15-Aug	39	19,073	48	0	48	129	48	11,665
16-Aug	48	23,451	48	0	48	125	48	13,587
17-Aug	48	23,532	48	0	48	249	48	18,254
18-Aug	48	24,953	32	0	48	98	48	18,404
19-Aug	48	19,547	40	0	48	80	48	17,661
20-Aug	48	12,636	48	0	48	209	48	22,464
21-Aug	48	13,004	40	0	48	1,013	48	26,204
22-Aug	47	11,173	39	0	48	753	48	27,215
23-Aug	48	10,373	46	0	48	704	48	28,161
24-Aug	48	20,241	45	0	48	873	48	27,128
25-Aug	48	30,236	48	0	48	1,094	48	29,814
26-Aug	48	49,563	48	0	48	1,496	48	27,354
27-Aug	41	47,741	48	9	48	2,531	48	22,901
28-Aug	48	44,454	48	35	48	3,770	48	17,511
29-Aug	43	47,172	48	74	48	4,403	45	16,726
30-Aug	40	49,330	48	110	48	4,079	39	15,241
31-Aug	48	35,718	48	165	48	4,347	48	14,895
1-Sep	48	33,821	48	158	45	3,130	48	12,741
2-Sep	48	33,990	46	135	47	1,599	48	12,842
3-Sep	48	35,327	35	160	48	6,759	48	17,870
4-Sep	48	27,332	48	429	48	3,752	48	20,867
5-Sep	48	17,061	48	468	48	4,175	48	24,678
6-Sep	48	20,628	48	446	48	5,216	48	27,224
7-Sep	39	26,472	43	605	48	6,146	48	27,299
8-Sep	40	25,807	38	1,348	48	5,112	48	26,969
9-Sep	48	13,938	48	3,312	48	4,680	48	18,969
10-Sep	48	9,255	45	1,965	48	5,169	48	32,759
11-Sep	48	6,117	48	1,563	48	5,484	48	40,694
12-Sep	6	4,281	48	1,044	48	3,443	48	36,375
13-Sep	29	2,444	48	755	48	2,787	48	29,168
14-Sep	48	2,615	48	920	41	2,725	48	24285
15-Sep	48	3,011	39	513	24	2,790	35	19449
16-Sep	48	2,781	34	363	34	1,537	48	11829
17-Sep	48	2,361	42	747	48	1,104	48	11715
18-Sep	48	2,151	48	1,118	48	1,350	48	8094
19-Sep	48	1,995	44	681	48	1,209	48	5658

Continued

Table 9. In-season expanded daily estimates of Sockeye passage and number of 20 minute counts from the Quesnel River hydroacoustic site, 2018-2022 (continued).

Date	2018		2019		2021		2022	
	No. of Counts ^a	Sockeye	No. of Counts ^a	Sockeye	No. of Counts ^a	Sockeye	No. of Counts ^a	Sockeye
20-Sep	48	4,173	48	611	48	968	48	3126
21-Sep	48	3,531	48	561	48	828		
22-Sep	48	3,090	48	417	48	693		
23-Sep	48	2,793	47	457	48	711		
24-Sep	48	2,151	48	419	48	680		
25-Sep	36	2,108	47	155	48	593		
26-Sep	39	1,410	48	117	48	521		
27-Sep	48	1,455	48	78	48	516		
28-Sep	48	930	41	32	48	402		
29-Sep	48	1,005	-	-	48	345		
30-Sep	21	795	-	-	-	-		
1-Oct	-	-	-	-	-	-		
2-Oct	-	-	-	-	-	-		
Total		828,668		19,965		100,602		788,930

^a Number of 20 min counts includes left and right bank sonar units

Table 10. In-season expanded daily estimates of Nadina and Stellako Sockeye passage and number of 20 minute counts from the Stellako River hydroacoustic site, 2018-2022.

Date	2018		2019		2020		2021		2022	
	No. of Counts	Sockeye	No. of Counts	Sockeye	No. of Counts	Sockeye	No. of Counts	Sockeye	No. of Counts	Sockeye
25-Jul	-	-	-	-	-	-	8	0	-	-
26-Jul	-	-	-	-	-	-	24	0	-	-
27-Jul	-	-	-	-	-	-	24	0	-	-
28-Jul	-	-	-	-	-	-	24	0	-	-
29-Jul	-	-	-	-	-	-	24	0	-	-
30-Jul	-	-	-	-	-	-	24	48	7	0
31-Jul	-	-	-	-	-	-	21	47	24	0
1-Aug	12	1,268	8	0	-	-	24	72	24	0
2-Aug	24	2,536	24	0	-	-	24	54	24	0
3-Aug	24	6,255	24	0	-	-	24	51	24	0
4-Aug	24	7,090	24	0	-	-	22	72	24	0
5-Aug	24	3,026	24	0	-	-	24	57	24	0
6-Aug	24	5,569	24	0	-	-	24	389	24	0
7-Aug	24	8,738	24	0	16	0	24	290	24	18
8-Aug	24	4,591	24	0	24	0	24	290	24	543
9-Aug	24	5,208	24	0	24	0	24	290	24	1,304
10-Aug	24	5,284	24	6	24	0	24	392	24	1,683
11-Aug	24	7,497	24	3	24	0	24	227	24	1,635
12-Aug	24	3,748	24	3	24	0	15	710	24	2,268
13-Aug	24	4,122	24	3	24	0	23	363	24	7,026
14-Aug	24	5,012	24	0	24	0	24	872	24	8,189
15-Aug	24	4,545	24	33	24	0	24	260	24	6,524
16-Aug	24	6,971	24	23	24	0	21	360	24	10,035
17-Aug	24	6,161	24	15	24	0	23	597	24	14,024
18-Aug	24	7,865	24	15	24	0	24	450	24	18,243
19-Aug	24	7,179	24	9	24	0	24	363	24	22,979
20-Aug	24	6,356	24	27	24	6	24	182	24	29,376
21-Aug	24	7,455	24	66	24	17	24	401	24	14,370
22-Aug	24	4,700	24	63	24	51	24	411	24	11,891
23-Aug	24	7,590	24	69	24	140	24	146	24	14,051
24-Aug	24	12,099	24	138	24	5,315	24	138	24	16,034
25-Aug	24	14,520	24	117	24	9,843	24	161	24	15,179
26-Aug	24	13,970	24	108	24	5,642	24	231	24	25,220
27-Aug	24	3,714	24	101	24	3,117	24	704	24	31,167
28-Aug	24	5,036	24	71	24	3,414	24	377	24	16,802
29-Aug	24	5,229	24	126	24	2,016	24	1,041	24	7,017
30-Aug	24	8,748	24	69	24	1,689	24	689	24	10,508
31-Aug	24	12,155	24	138	24	965	24	1,280	24	11,001
1-Sep	24	13,461	24	198	24	1,262	24	1,584	24	7,134
2-Sep	24	6,792	24	328	24	1,532	24	1,478	24	5,322
3-Sep	24	12,555	24	339	24	1,280	24	986	24	4,991
4-Sep	24	6,836	24	1,406	24	1,397	23	2,558	24	5,561
5-Sep	24	6,185	24	807	24	1,488	24	2,691	24	6,395
6-Sep	24	9,146	24	1,062	24	1,917	24	1,077	24	7,434
7-Sep	24	5,421	24	1,058	24	1,274	24	4,610	24	6,824
8-Sep	24	6,467	24	1,131	24	1,745	24	5,649	24	5,364
9-Sep	24	6,165	24	1,302	24	1,874	24	4,124	24	4,269

Continued

Table 10. In-season expanded daily estimates of Nadina and Stellako Sockeye passage and number of 20 minute counts from the Stellako River hydroacoustic site, 2018-2022 (continued).

Date	2018		2019		2020		2021		2022	
	No. of Counts	Sockeye	No. of Counts	Sockeye	No. of Counts	Sockeye	No. of Counts	Sockeye	No. of Counts	Sockeye
10-Sep	24	6,975	24	1,503	24	1,394	24	4,907	24	3,525
11-Sep	24	4,253	24	771	24	1,484	24	3,966	24	4,217
12-Sep	24	5,732	24	1,346	24	1,107	24	6,414	24	3,332
13-Sep	24	4,428	24	1,748	24	1,061	24	6,294	24	6,483
14-Sep	24	2,915	24	1,919	24	1,109	24	6,593	24	3,722
15-Sep	24	4,745	24	4,994	24	812	24	3,767	24	5,717
16-Sep	24	4,137	24	4,889	24	1,041	24	6,773	24	8,319
17-Sep	24	4,683	24	6,641	24	1,076	24	8,106	24	8,741
18-Sep	24	6,020	24	8,009	24	1,229	24	8,841	24	7,154
19-Sep	24	5,769	24	3,593	24	2,004	24	7,211	24	9,281
20-Sep	24	4,053	24	4,386	24	1,461	24	8,181	24	6,035
21-Sep	24	3,515	24	2,232	24	2,814	24	7,869		
22-Sep	24	2,391	24	3,003	24	1,382	24	5,990		
23-Sep	24	2,648	24	1,613	24	1,556	24	5,685		
24-Sep	24	1,962	24	1,421	24	995	24	4,212		
25-Sep	24	2,150	24	1,013	24	842	24	3,701		
26-Sep	24	1,908	24	842	24	999	24	3,776		
27-Sep	24	1,614	24	656	24	569	24	2,577		
28-Sep	24	1,293	24	888	24	672	24	2,565		
29-Sep	24	1,626	24	1,176	24	542	24	1,805		
30-Sep	24	903	24	2,238	24	570	24	2,331		
1-Oct	24	638	24	1,236	24	357	24	1,481		
2-Oct	9	647	24	969	24	309	24	1,503		
3-Oct	-	-	24	1,238	24	254	24	1,092		
4-Oct	-	-	24	638	24	437	24	933		
5-Oct	-	-	24	551	24	234	24	1,044		
6-Oct	-	-	24	387	9	375	21	893		
7-Oct	-	-	24	209	-	-				
8-Oct	-	-	24	137	-	-				
9-Oct	-	-	24	104	-	-				
10-Oct	-	-	9	70	-	-				
Total		352,255		69,241		72,656		155,268		416,895

Table 11. In-season daily estimates of Sockeye passage and number of 20 minute counts from the Birkenhead River hydroacoustic site, 2018-2022.

Date	2018		2019		2020		2021		2022	
	No. of Counts	Sockeye	No. of Counts	Sockeye	No. of Counts	Sockeye	No. of Counts	Sockeye	No. of Counts	Sockeye
18-Aug	-	-	-	-	-	-	-	-	11	52
19-Aug	-	-	-	-	-	-	-	-	24	41
20-Aug	-	-	-	-	-	-	7	21	24	47
21-Aug	-	-	-	-	-	-	24	18	24	60
22-Aug	-	-	-	-	9	40	24	54	24	86
23-Aug	9	8	12	0	24	15	24	39	24	150
24-Aug	24	26	24	0	24	30	24	9	24	86
25-Aug	24	51	24	3	24	6	24	15	24	137
26-Aug	24	18	24	15	24	39	23	15	24	206
27-Aug	24	27	24	3	24	32	17	0	24	246
28-Aug	24	12	24	6	24	68	24	0	24	395
29-Aug	24	75	24	0	24	42	11	0	24	815
30-Aug	24	150	23	6	24	53	13	6	24	1,731
31-Aug	24	407	24	9	24	63	20	32	24	5,063
1-Sep	24	153	24	3	24	77	17	59	24	2,690
2-Sep	24	515	24	15	24	116	7	298	24	2,103
3-Sep	24	920	24	14	24	188	24	438	24	2,436
4-Sep	24	492	24	6	24	188	15	1,066	24	7,872
5-Sep	24	459	24	15	24	273	24	2,952	24	4,793
6-Sep	24	983	24	21	24	379	24	1,419	24	4,283
7-Sep	24	1,404	24	18	24	282	24	3,150	24	8,808
8-Sep	24	648	24	24	24	329	8	3,393	24	3,650
9-Sep	24	903	24	48	24	176	8	1,638	24	4,356
10-Sep	24	1,236	24	42	24	152	8	3,105	24	3,747
11-Sep	24	692	24	48	24	282	8	2,466	24	9,207
12-Sep	24	258	20	79	24	264	8	2,304	24	6,228
13-Sep	24	611	24	147	24	233	8	3,591	24	6,260
14-Sep	24	272	24	153	24	350	8	1,071	24	9,689
15-Sep	24	456	6	300	24	279	8	1,719	24	13,529
16-Sep	24	500	-	- ^a	24	177	8	594	24	6,303
17-Sep	24	404	8	81	24	147	8	558	24	5,922
18-Sep	24	488	24	125	24	183	-	- ^a	24	2,412
19-Sep	24	426	24	105	24	135	-	- ^a	24	3,156
20-Sep	24	386	24	36	24	171	-	- ^a	12	2,292
21-Sep	24	281	24	50	24	110	-	- ^a		
22-Sep	8	360	24	111	24	75	8	1,449		
23-Sep	10	151	24	132	24	44	8	1,098		
24-Sep	24	129	24	108	24	50	8	387		
25-Sep	24	120	24	122	24	40	8	351		
26-Sep	24	111	24	183	24	26	8	297		
27-Sep	24	138	24	186	24	17	-	-		
28-Sep	24	114	24	141	24	29	-	-		
29-Sep	24	78	24	120	24	29	-	-		
30-Sep	24	129	24	153	24	50	-	-		
1-Oct	24	96	24	54	24	57	-	-		
2-Oct	24	44	8	23	-	-	-	-		
3-Oct	-	-	-	-	-	-	-	-		
4-Oct	-	-	-	-	-	-	-	-		
5-Oct	-	-	-	-	-	-	-	-		
6-Oct	-	-	-	-	-	-	-	-		
Total		14,725		2,703		5,287		33,612		118,751

^a Sonar w eir breached due to high w ater; sonar non-operational.

Table 12. In-season expanded daily estimates of Sockeye passage and number of 20 minute counts from the Eagle River (Late Run) hydroacoustic site, 2018 and 2022.

Date	2018		2022	
	No. of Counts	Sockeye	No. of Counts	Sockeye
17-Sep	24	828	24	410
18-Sep	24	974	24	683
19-Sep	24	905	24	668
20-Sep	24	1,034	24	567
21-Sep	15	1,099		
22-Sep	24	2,183		
23-Sep	23	2,001		
24-Sep	24	1,517		
25-Sep	24	2,948		
26-Sep	24	4,629		
27-Sep	23	7,551		
28-Sep	24	9,294		
29-Sep	24	6,188		
30-Sep	24	6,182		
1-Oct	24	11,936		
2-Oct	24	10,692		
3-Oct	24	11,480		
4-Oct	24	7,469		
5-Oct	24	7,944		
6-Oct	24	9,420		
7-Oct	24	7,365		
8-Oct	24	8,700		
9-Oct	24	10,356		
10-Oct	24	5,195		
11-Oct	24	4,897		
12-Oct	24	3,972		
13-Oct	24	2,957		
14-Oct	23	3,080		
15-Oct	24	2,032		
16-Oct	24	2,424		
17-Oct	24	2,160		
18-Oct	24	2,655		
19-Oct	24	2,232		
20-Oct	24	1,257		
21-Oct	24	1,251		
22-Oct	24	744		
Total		167,544		2,327

Table 13. In-season expanded daily estimates of Sockeye passage and number of 20 minute counts from the Lower Shuswap River hydroacoustic site, 2018 and 2022.

Date	2018		2022	
	No. of Counts	Sockeye	No. of Counts	Sockeye
12-Sep	14	303	-	-
13-Sep	24	360	-	-
14-Sep	24	246	19	596
15-Sep	24	153	32	827
16-Sep	24	396	36	1,115
17-Sep	15	648	25	276
18-Sep	13	166	48	996
19-Sep	24	1,295	48	1,353
20-Sep	24	1,280	48	594
21-Sep	24	1,703		
22-Sep	24	2,474		
23-Sep	24	5,699		
24-Sep	24	8,088		
25-Sep	24	8,544		
26-Sep	24	11,111		
27-Sep	24	14,786		
28-Sep	24	12,014		
29-Sep	24	15,962		
30-Sep	24	14,256		
1-Oct	24	12,288		
2-Oct	24	21,498		
3-Oct	24	26,252		
4-Oct	24	28,091		
5-Oct	24	32,328		
6-Oct	24	24,911		
7-Oct	24	19,878		
8-Oct	24	24,606		
9-Oct	24	24,492		
10-Oct	24	17,256		
11-Oct	24	17,132		
12-Oct	24	17,561		
13-Oct	24	15,945		
14-Oct	24	18,824		
15-Oct	24	16,200		
16-Oct	24	13,247		
17-Oct	24	15,822		
18-Oct	24	15,662		
19-Oct	24	18,263		
20-Oct	24	13,572		
21-Oct	24	10,979		
22-Oct	24	7,290		
23-Oct	14	8,522		
24-Oct	24	4,480		
25-Oct	15	1,870		
26-Oct	24	990		
27-Oct	24	1,239		
28-Oct	24	780		
29-Oct	9	248		
Total		529,701		5,757