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2020 NASS RIVER SALMON STOCK ASSESSMENT UPDATE – THURSDAY, 16 JULY

The following is the fourth general weekly public update for 2020 of Nass River salmon and summer-run steelhead stock assessments from the Nisga'a Lisims Government Fisheries and Wildlife Department.

All data presented in this update are preliminary and subject to change with further assessment information that becomes available and should be interpreted cautiously. For in-season assessment purposes only.

NASS RIVER ASSESSMENT OPERATIONS UPDATE

OPERATIONAL ASSESSMENT INFORMATION FOR 2020

1. Fishwheel Assessment data: 31 May to 15 July. Data summary below.
2. Meziadin Fishway data: Count data from 30 June to 15 July.
 - Water temperature is currently 0.3°C cooler than average (15.0°C vs. 15.3°C) based on 1994–2019 operations.
 - Counts to date: 69 Sockeye (35 large (0 tagged) and 0 small) and 0 Chinook. The counts to date are well below average for Sockeye (18,000) and Chinook (17) based on mean counts from 1994 to 2019.
 - Projection to fishway based on sockeye counts and linear regression of in-season to final counts to date from 1994 to 2019 ($r^2=0.49$): 133,000 large Sockeye (95% CI: 115,000, 150,000).
3. Kwinageese Weir data: Video-weir count data from 9 July to 15 July.
 - Current water level is 0.07 m higher than average (0.38 vs 0.31 m) and water temperature is 2.1°C cooler than average (13.0°C vs. 15.1°C) based on 2002-2019 operations.
 - Counts to date: 1 Chinook (1 large (0 tagged) and 0 small), 0 sockeye, and 3 Bull Trout. Salmon counts are below average for chinook (10) and the same for Sockeye (0) and Bull Trout (3) based on 2002-2019 operations.

GITWINKSIHLKW (GW) FISHWHEELS - NASS RIVER TEST FISHERY – STARTED IN 1994 [27th year]:

The Nass River test fishery fishwheels began operation on 31 May for tagging and historical catch index assessments for salmon and summer-run steelhead. All fish caught in the GW fishwheels to date were released alive after tagging and/or counting.

Fishwheels 1 and 2 are currently operating 0.1 m lower than average water levels (2.4 m vs. 2.5 m) based on 1994–2019 operations. The Nass River water temperature is currently 1.7°C cooler than average (8.2°C vs. 9.9°C) based on 1994–2019 operations. High-water events occurred June 20–22 and July 3 that shutdown one or both fishwheels during those periods. When high water events occur, the estimated discharge of the Nass River exceeds 2,000 m³/s and few fish can migrate upstream of the fishwheels through the GW canyon under these high-water levels. A chart of the water levels at the test fishery follows the text summary that compares current levels to historical levels.

GREASE HARBOUR (GH) FISHWHEELS:

Start-up dates of the upper fishwheels were on 6 June for the operation of three fishwheels (FW3, FW5, and FW6) at Grease Harbour (upstream of Ts'im Anwiihlist), located approximately 16 km upstream of GW fishwheels. The GH fishwheels are used for in-season mark-recapture tag recoveries of salmon, abundance estimates passing upstream, additional tagging (adult Chinook and Chum salmon, and Pacific Lamprey), and for selective harvesting when permitted by Nisga'a Lisims Government. No harvesting from the fishwheels has been permitted to date. Genetic tissue is also being collected from Pacific Lamprey that are caught from the upper fishwheels for a collaborative study with the Columbia River Inter-Tribal Fish Commission. Of the 13,224 Sockeye caught at all fishwheels to date, all have been released, as have the other salmon, steelhead and other fish caught. The total Nass fishwheel catches this year are currently below average for all salmon species except Chum and below average for Pacific Lamprey. Total fishwheel catches of salmon, steelhead, and Pacific Lamprey to date are shown below including tagging results and jacks caught.

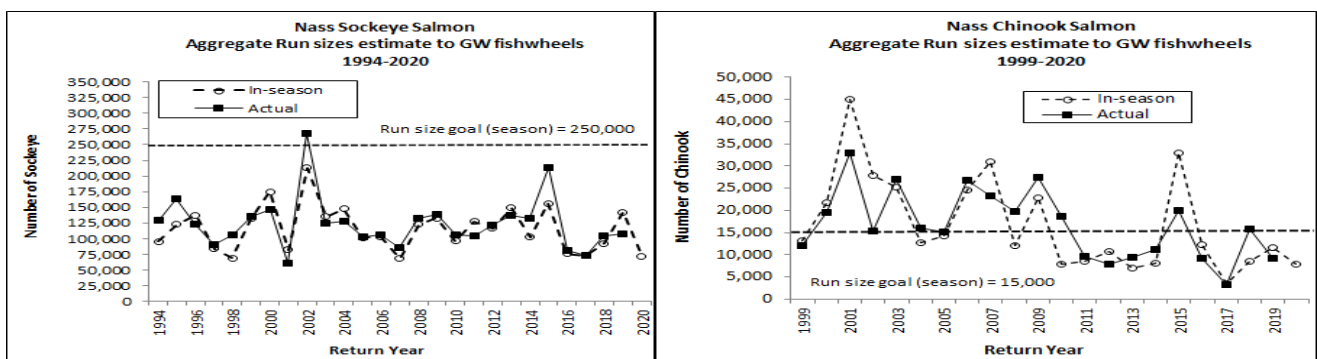
| FISHWHEEL CATCH SUMMARIES | SOCK | CHIN | COHO | STEEL | PINK-EVE | CHUM | LAMP |
|--|--------|-------|--------|-------|----------|------|------|
| FISHWHEEL TOTAL CATCH OF ADULTS | 13,224 | 2,189 | 1 | 4 | 22 | 3 | 159 |
| HISTORICAL AVG CUM CATCH (00-19) TO DATE | 15,800 | 3,600 | 3 | 10 | 40 | 2 | 210 |
| HISTORICAL AVG CUM TOTAL CATCH (00-19) | 42,000 | 4,000 | 14,000 | 1,000 | 12,000 | 130 | 700 |
| AVERAGE DAILY CATCH (5 D) OF ADULTS - GW | 296 | 25 | 0 | 0 | 4 | 0 | 0 |
| AVERAGE DAILY CATCH (5 D) OF ADULTS - GH | 741 | 111 | 0 | 0 | 0 | 0 | 5 |
| FISHWHEEL TOTAL TAGGED (OR ADIPOSE FIN MARKED) | 3,114 | 1,991 | 1 | 2 | 0 | 2 | 105 |
| FISHWHEEL TOTAL JACKS | 1,213 | 1,551 | 0 | NA | NA | NA | NA |
| HISTORICAL MEAN JACKS (00-19) TO DATE | 810 | 495 | 1 | NA | NA | NA | NA |

Other adult species and juvenile salmon catches at the fishwheels to date include: 68 Rainbow Trout, 17 Whitefish, 11 Cutthroat Trout, 10 Dolly Varden (7 tagged), 6 Sculpin, 2 Suckers, 2 Redside Shiner, 104 salmon smolts (33 Coho, 0 Chinook, 71 Sockeye), and 1 baby duck.

RUN SIZE AND ESCAPEMENT ESTIMATES FOR NASS SALMON & SUMMER-RUN STEELHEAD

In-season estimates of run size and projected forecasts to Gitwinksihlkw fishwheels for adult Nass salmon and summer-run steelhead are shown below and are a combination of historical catch index and in-season mark-recapture methods. The current run sizes for 2020 are below average for Nass Sockeye, Chinook, Coho, and summer-run steelhead when compared to means to date from 1994 to 2019. Summer-run steelhead estimates began on 1 July and the run size target is based on a minimum return goal as steelhead will continue to enter the Nass River after the fishwheels shutdown in mid-September. Of note, by 15 July, in-season run size estimates for Nass Sockeye are performing well (mean absolute percent accuracy 85%; range=66–99%) when comparing returns from 1994 to 2019. Mean percent accuracy for Nass Chinook in-season estimates are reliable (71%; range: 20–95%); but more uncertain than for Sockeye.

| IN-SEASON RUN SIZE SUMMARIES | SOCK | CHIN | COHO | STEEL | 15-Jul-20 |
|---|---------|--------|--------|-------|-----------|
| IN-SEASON RUN SIZE ESTIMATE TO DATE | 71,908 | 7,993 | 13 | 12 | |
| HISTORICAL MEAN RUN SIZE TO GW FOR DATE (94-19) | 123,000 | 17,400 | 34 | 80 | |
| RUN SIZE TARGET 2020 (MIN. FOR STEELHEAD) | 230,000 | 15,000 | 65,000 | 4,200 | |



In-season preliminary forecast projections above Gitwinksihlkw are shown below. Estimates to Gitwinksihlkw are based on two methods, mean run timing and linear-regression of the in-season to final estimates to date. The current run size projection for Nass Sockeye is ranging between 140,000 and 308,000 to reach the run size goal (~230,000 for 2020) based on the in-season to final method with a point estimate of 224,000 based on mean-run timing (43%; range: 27–60%) of the run passing Gitwinksihlkw to date. The current run size projection for Nass Chinook is ranging between 8,000 and 11,000 and is tracking below the run size goal (15,000) based on in-season to final method with a point estimate of 10,000 based on mean-run timing (90%; range: 68–96%) of the run passed Gitwinksihlkw to date.

| IN-SEASON FORECASTS TO GW - METHODS: | SOCK | CHIN | COHO | STEEL | | 15-Jul-20 |
|--|----------------|---------------|---------------|--------------|--|----------------------------|
| 1. RUN TIMING METHOD (94-19) - Mean Run timing | 166,000 | 9,000 | 34,000 | 2,000 | | |
| Lower (-2 S.D.) | 115,000 | 8,000 | 10,000 | 1,000 | | |
| Upper (+2 S.D.) | 333,000 | 10,000 | 68,000 | 4,000 | | In-season/Final |
| 2. IN-SEASON TO FINAL (regression): | 224,000 | 10,000 | 82,000 | 10,000 | | r ² (CH) = 0.99 |
| 95% CI - lower | 140,000 | 8,000 | 49,000 | 7,000 | | r ² (SO) = 0.57 |
| 95% CI - upper | 308,000 | 11,000 | 102,000 | 14,000 | | r ² (CO) = 0.19 |
| <i>GW RUN SIZE TARGET (DEPENDING ON HARVESTS ABOVE GW)</i> | <i>230,000</i> | <i>15,000</i> | <i>65,000</i> | <i>4,200</i> | | r ² (ST) = 0.18 |
| Mean Run Timing % Return Estimate to GW fishwheels (94-19) | 43% | 90% | 0.0% | 0.6% | | |
| Late run | 27% | 68% | 0.0% | 0.0% | | |
| Early run | 60% | 96% | 0.2% | 3.0% | | |

Net Escapement Estimates for adult Nass salmon to date are shown below and relative to the Upper Nass net aggregate escapement goals.

| IN-SEASON NET ESCAPEMENT ESTIMATES | SOCK | CHIN | COHO | STEEL | | 15-Jul-20 |
|---|----------------|---------------|---------------|--------------|--|-----------|
| HARVEST ESTIMATES ABOVE GW TO DATE | 6,819 | 1,505 | - | - | | |
| NET ESCAPEMENT (ABOVE GW): | 65,089 | 6,488 | 13 | 12 | | |
| <i>NET ESCAPEMENT TARGET (UPPER RIVER ONLY)</i> | <i>200,000</i> | <i>13,000</i> | <i>60,000</i> | <i>4,000</i> | | |

The NFWD program carefully tracks Nass salmon and steelhead runs each year to ensure adequate numbers reach their spawning grounds (escapement). The current return estimates suggest that Nass Sockeye and Chinook numbers are well below historical averages and there is a very real danger of not reaching the escapement goal for either of these species. On 9 July, the Nisga'a Lisims Government publicly announced the closure of the Nisga'a food fishery for Chinook Salmon for the rest of season starting on 10 July with no directed harvests permitted, and a one-week closure of the Sockeye food fishery from 13 July to 19 July. An announcement will be made by the Nisga'a Lisims Government before 19 July to update on the status of re-opening the Sockeye food fishery.

HARVEST ESTIMATES FOR ADULT NASS SALMON & STEELHEAD

ALASKAN FISHERIES IN SE ALASKA (information courtesy from ADFG's website):

The 2020 Alaskan Southeast fisheries started on 21 June for gillnet fisheries in District 101 (Tree Point) and District 106 (Sumner and Upper Clarence) and seine fisheries in District 102 (Middle Clarence). District 101 (Lower Clarence/Revilla) opened on 5 July 2020. District 103 (Cordova), and District 104 (Noyes/Dall) seine fisheries have not opened to date.

The table below shows the current estimates of catches of salmon in Alaskan net fisheries in Districts 101–106 (and mean catch comparisons from 2000 to 2019) to **16 July 2020** based on data from ADFG. Current catches are below average for all salmon with limited Alaskan fisheries occurring due to low return status for Nass and Skeena sockeye to date.

Of the total in-season Sockeye catch reported in the SE Alaskan fisheries shown to date (13,800), approximately 36% (5,000) are estimated as Nass origin based on mean stock composition estimates from 1982 to 2019 and are currently below average (40,000) to date.

The average total mean harvest of Nass salmon in Alaskan net fisheries from 2000 to 2019 is 112,000 Sockeye (range: 22,000–300,000), 64,000 Pink (range: 4,000–192,000), 147,000 Coho (range: 59,000–530,000), and 6,000 Chum (<1,000–24,000).

| IN-SEASON SE ALASKAN CUM. SALMON CATCH ESTIMATES (ADFG WEBSITE) - 2020 | | | | | | | | | WEEK END: | | 18-Jul-20 |
|--|------------|---------------|----------------|--------------|--------------|----------------|-----------------|----------------|----------------|---------------|---------------|
| DISTRICTS | AREA | SOCK CATCH | AVG (00-19) | CHIN CATCH | AVG (00-19) | PINK CATCH | AVG EVE (00-18) | CHUM CATCH | AVG (00-19) | COHO CATCH | AVG (00-19) |
| DIST 101 GN | TREE PT | 5,800 | 40,000 | 1,400 | 1,300 | 26,200 | 62,700 | 51,000 | 120,000 | 3,600 | 5,000 |
| DIST 106 GN | UPP. CLAR | 5,300 | 48,000 | 800 | 1,200 | 16,400 | 24,000 | 50,600 | 79,000 | 3,500 | 31,000 |
| DIST 101 SN | LOW CLAR | 1,600 | 7,400 | 0 | 200 | 155,000 | 230,000 | 9,000 | 68,000 | 2,000 | 4,000 |
| DIST 102 SN | MID CLAR. | 1,100 | 10,000 | 0 | 500 | 25,500 | 121,800 | 51,000 | 255,000 | 2,600 | 13,700 |
| DIST 103 SN | CORDOVA | 0 | 0 | 0 | 0 | 0 | 2,000 | 0 | 0 | 0 | 0 |
| DIST 104 SN | NOYES/DALL | 0 | 29,000 | 0 | 500 | 0 | 203,000 | 0 | 37,000 | 0 | 14,000 |
| CUMULATIVE TOTAL | | 13,800 | 134,000 | 2,200 | 3,700 | 223,000 | 644,000 | 162,000 | 559,000 | 11,700 | 68,000 |

Green - opened; Red - closed.

| Total Run estimates for Nass Salmon including 2020 pre-season forecast: | | | | | | |
|--|-----------|-----------|---------|-----------|---------|-----------|
| Year | Sockeye | Pink | Chinook | Coho | Chum | Total |
| 1992 | 1,960,000 | 392,000 | 37,000 | 305,000 | 67,000 | 2,761,000 |
| 1993 | 2,151,000 | 1,205,000 | 48,000 | 119,000 | 323,000 | 3,846,000 |
| 1994 | 837,000 | 222,000 | 45,000 | 759,000 | 149,000 | 2,012,000 |
| 1995 | 1,169,000 | 1,010,000 | 23,000 | 151,000 | 113,000 | 2,466,000 |
| 1996 | 1,055,000 | 570,000 | 44,000 | 208,000 | 61,000 | 1,938,000 |
| 1997 | 995,000 | 475,000 | 38,000 | 61,000 | 53,000 | 1,622,000 |
| 1998 | 712,000 | 167,000 | 48,000 | 134,000 | 290,000 | 1,351,000 |
| 1999 | 843,000 | 1,454,000 | 30,000 | 207,000 | 89,000 | 2,623,000 |
| 2000 | 626,000 | 324,000 | 34,000 | 227,000 | 30,000 | 1,241,000 |
| 2001 | 582,000 | 1,187,000 | 50,000 | 423,000 | 54,000 | 2,296,000 |
| 2002 | 1,404,000 | 406,000 | 30,000 | 381,000 | 19,000 | 2,240,000 |
| 2003 | 1,176,000 | 1,155,000 | 46,000 | 265,000 | 87,000 | 2,729,000 |
| 2004 | 985,000 | 783,000 | 34,000 | 227,000 | 82,000 | 2,111,000 |
| 2005 | 666,000 | 1,523,000 | 28,000 | 379,000 | 42,000 | 2,638,000 |
| 2006 | 775,000 | 141,000 | 45,000 | 199,000 | 73,000 | 1,233,000 |
| 2007 | 603,000 | 1,015,000 | 41,000 | 286,000 | 21,000 | 1,966,000 |
| 2008 | 380,000 | 55,000 | 31,000 | 200,000 | 4,000 | 670,000 |
| 2009 | 576,000 | 912,000 | 40,000 | 486,000 | 29,000 | 2,043,000 |
| 2010 | 439,000 | 202,000 | 28,000 | 281,000 | 10,000 | 960,000 |
| 2011 | 557,000 | 180,000 | 20,000 | 207,000 | 8,000 | 972,000 |
| 2012 | 477,000 | 303,000 | 17,000 | 260,000 | 19,000 | 1,076,000 |
| 2013 | 505,000 | 1,115,000 | 17,000 | 1,041,000 | 18,000 | 2,696,000 |
| 2014 | 553,000 | 461,000 | 24,000 | 405,000 | 24,000 | 1,467,000 |
| 2015 | 870,000 | 457,000 | 35,000 | 462,000 | 55,000 | 1,879,000 |
| 2016 | 442,000 | 387,000 | 19,000 | 618,000 | 29,000 | 1,495,000 |
| 2017 | 369,000 | 963,000 | 12,000 | 454,000 | 26,000 | 1,824,000 |
| 2018 | 316,000 | 266,000 | 24,000 | 148,000 | 53,000 | 807,000 |
| 2019 | 378,000 | 191,000 | 21,000 | 283,000 | 30,000 | 903,000 |
| 2020 | 494,000 | 321,000 | 24,000 | 504,000 | 33,000 | 1,376,000 |
| Average: | | | | | | |
| 92-19 | 800,000 | 626,000 | 32,000 | 328,000 | 66,000 | 1,852,000 |
| * Color coding from mean averages from 1992-2019: Green - above average; Yellow - below average but higher than 1 SD; and Red - below average and lower than 1 SD. | | | | | | |

CANADIAN COMMERCIAL NET FISHERIES IN AREA 3 (information courtesy from DFO Prince Rupert):

Area 3 commercial net fisheries continue to be closed due to poor return status of Nass Sockeye and Chinook. A seine fishery occurred in outside Area 3 (Areas 3-3 and 3-7) on **6 July 2020** to target Nass Area Pink Salmon with retention of Chum Salmon and non-retention of other species. Catches are shown below.

| GEAR | DATE | Vessel | | | | | | | | | | | |
|-----------------|------------|-----------|----------|------------|----------|-----------|--------------|----------|--------------|----------|----------|------------|-----------|
| | | days | SO-harv | SO-Rel | CO-HARV | CO-Rel | PK-HARV | PK-Rel | Chum-harv | Chum-Rel | CH-harv | CH-Rel | STEEL-Rel |
| SN | 2020-07-06 | 13 | 0 | 212 | 0 | 94 | 2,753 | 0 | 2,728 | 0 | 0 | 161 | 0 |
| SN Total | | 13 | 0 | 212 | 0 | 94 | 2,753 | 0 | 2,728 | 0 | 0 | 161 | 0 |

LABELS: SO=SOCKEYE, PK=PINK, CO=COHO, CH=CHINOOK; HARV=HARVESTED, REL=RELEASED.

NISGA'A DOMESTIC AND SALE FISHERIES:

Nisga'a domestic and sale fisheries are monitored by the Nisga'a Fisheries and Wildlife Department and began on 19 May 2020. Cumulative harvests to week ending **11 July** are shown in the table below for Food, Social, and Ceremonial (FSC) catches. Due to low Nass salmon returns to date no sale fisheries have been permitted. The current harvests of Nass salmon and steelhead estimated in 2020 are above average for food fishing (with a one-week Sockeye fishing closure after July 13); but well below average compared to all harvests from 2000 to 2019 (27,000 vs. 59,000).

| Reported Week Ending Period | | DOMESTIC (FSC) HARVESTS TO WK END - 2020 | | TOTAL HARVESTS TO DATE INCLUDING SALE FISHERIES AND ESTIMATED RELEASE MORTALITIES 2020 | |
|---|-----------|--|---------------|---|---------------|
| CHINOOK | 11-Jul-20 | 4,889 | 4,500 | 5,031 | 5,000 |
| SOCKEYE | 11-Jul-20 | 21,377 | 14,900 | 21,378 | 50,500 |
| PINK | 11-Jul-20 | 525 | 1,037 | 557 | 3,000 |
| COHO | 11-Jul-20 | 2 | 53 | 2 | 69 |
| CHUM | 11-Jul-20 | 28 | 197 | 28 | 197 |
| STEELHEAD | 11-Jul-20 | 23 | 76 | 34 | 76 |
| TOTAL | | 26,800 | 20,800 | 27,000 | 58,800 |
| * Mean harvests from 2000-2019 for week end periods. Total harvests include all gear types estimates (net, angling, seine, etc.) and release mortality (60% of releases). | | | | | |

Nisga'a fisheries information for 2020:

- No sale fisheries have been permitted to date with Food, Social and Ceremonial fisheries continuing as the highest priority fisheries.
- NLG announced the closing of the Chinook food fishery for the rest of the season starting on 10 July with no directed fisheries, and a one-week Sockeye food fishing closure from 13 July to 19 July.

The total harvest summary of Nass salmon and steelhead to date in all Nisga'a fisheries is as follows:

| NISGA'A TOTAL HARVEST SUMMARY | SOCK | CHIN | COHO | PINK-EVE | CHUM | STEEL |
|---|---------------|---------------|---------------|---------------|---------------|---------------|
| MARINE SALE FISHERY TOTAL | CLOSED | CLOSED | CLOSED | CLOSED | CLOSED | CLOSED |
| IN-RIVER SALE FISHERY TOTAL | CLOSED | CLOSED | CLOSED | CLOSED | CLOSED | CLOSED |
| INDIVIDUAL SALE (IS) FISHERY TOTAL | CLOSED | CLOSED | CLOSED | CLOSED | CLOSED | CLOSED |
| NLG COMMUNAL SELECTIVE TREATY FISHERY - GH FISHWHEELS | CLOSED | CLOSED | CLOSED | CLOSED | CLOSED | CLOSED |
| NLG COMMUNAL SELECTIVE TREATY FISHERY - SEINE | CLOSED | CLOSED | CLOSED | CLOSED | CLOSED | CLOSED |
| DOMESTIC (FSC) GILLNET FISHERY - WK END: 11 JULY | 21,378 | 5,031 | 2 | 557 | 28 | 34 |
| SUB TOTAL (NLG TREATY FISHERIES) | 21,378 | 5,031 | 2 | 557 | 28 | 34 |
| NLG SOCK DEMONSTRATION FISHERY HARVEST - DFO INVENTORY | CLOSED | CLOSED | CLOSED | CLOSED | CLOSED | CLOSED |
| GRAND TOTAL | 21,378 | 5,031 | 2 | 557 | 28 | 34 |

TOTAL RETURN TO CANADA (TRTC) AND NISGA'A ENTITLEMENT ESTIMATES FOR NASS SALMON

Pre-season TRTC and Nisga'a entitlement forecasts:

Based on the preliminary Nass salmon return and age information from 2019, preliminary forecasts for Nass salmon and Nisga'a entitlement allocations for 2020 were calculated using pre-season forecast models. The pre-season forecasts were used for general planning purposes until in-season forecasts were available. Forecast models used were a combination of sibling (Sockeye and Chinook only) and brood year mean returns that project 25%, 50%, and 75% probability point estimates.

Pre-season TRTC forecasts (50% probability estimates) for 2020 predicted below average return forecasts for Nass Sockeye (386,000 vs. 550,000), Nass Chinook (23,000 vs. 30,000), Nass Pink (291,000 vs. 540,000); and Nass Chum (29,000 vs. 42,000; below the 45,000 escapement goal), and above average return forecast for Nass Coho (290,000 vs. 194,000) based on mean TRTC estimates from 1994 to 2019. When reviewing Nass salmon returns over a 36-year period (1985–2019), the forecasted returns in 2020 were projected to be poor for Sockeye (8th worst), Chinook (9th worst), Pink (10th worst), and Chum (14th worst); and good for Coho (5th best).

| PRE-SEASON TRTC & ENTITLEMENT FORECASTS | SOCK | CHIN | COHO | PINK-EVE | CHUM |
|---|---------|---------|---------|----------|-------------|
| HISTORICAL MEAN TRTC (1994-2019) | 548,000 | 30,000 | 194,000 | 540,000 | 42,000 |
| PRE-SEASON TRTC FORECAST (50% PROBABILITY) | 386,000 | 23,000 | 290,000 | 291,000 | 29,000 |
| PRE-SEASON NISGA'A ENTITLEMENT | 59,000 | 4,800 | 19,200 | 11,000 | 500 |
| CUM UNDERAGE (+)/OVERAGE (-) AVAILABLE OR OWED: 2000-19 | -1,828 | rebuild | 2,067 | -2,886 | < esc. goal |
| TOTAL PRE-SEASON NISGA'A CATCH POTENTIAL | 57,000 | 4,800 | 21,000 | 8,000 | 500 |

| Total Return to Canada estimates for Nass Salmon | | | | | | | Ranking - Poorest return from 1 to 29 | | | | | |
|--|-----------|-----------|---------|---------|---------|-----------|---------------------------------------|------|---------|------|------|-------|
| Year | Sockeye | Pink | Chinook | Coho | Chum | Total | Sockeye | Pink | Chinook | Coho | Chum | Total |
| 1992 | 1,572,000 | 328,000 | 35,000 | 160,000 | 54,000 | 2,149,000 | 28 | 12 | 19 | 13 | 21 | 27 |
| 1993 | 1,586,000 | 874,000 | 45,000 | 62,000 | 239,000 | 2,806,000 | 29 | 22 | 27 | 2 | 29 | 29 |
| 1994 | 590,000 | 184,000 | 43,000 | 351,000 | 105,000 | 1,273,000 | 19 | 6 | 24 | 27 | 27 | 14 |
| 1995 | 855,000 | 829,000 | 22,000 | 68,000 | 83,000 | 1,857,000 | 25 | 21 | 7 | 3 | 26 | 22 |
| 1996 | 694,000 | 465,000 | 42,000 | 126,000 | 40,000 | 1,367,000 | 23 | 18 | 23 | 8 | 18 | 15 |
| 1997 | 574,000 | 416,000 | 36,000 | 33,000 | 31,000 | 1,090,000 | 18 | 16 | 20 | 1 | 15 | 12 |
| 1998 | 446,000 | 143,000 | 46,000 | 72,000 | 182,000 | 889,000 | 13 | 3 | 28 | 4 | 28 | 7 |
| 1999 | 645,000 | 1,259,000 | 29,000 | 107,000 | 68,000 | 2,108,000 | 21 | 28 | 14 | 6 | 24 | 25 |
| 2000 | 539,000 | 292,000 | 33,000 | 134,000 | 26,000 | 1,024,000 | 17 | 11 | 16 | 10 | 12 | 10 |
| 2001 | 380,000 | 995,000 | 48,000 | 247,000 | 36,000 | 1,706,000 | 7 | 26 | 29 | 21 | 17 | 21 |
| 2002 | 1,279,000 | 365,000 | 28,000 | 319,000 | 18,000 | 2,009,000 | 27 | 14 | 12 | 26 | 7 | 24 |
| 2003 | 1,024,000 | 1,019,000 | 44,000 | 176,000 | 76,000 | 2,339,000 | 26 | 27 | 25 | 16 | 25 | 28 |
| 2004 | 681,000 | 696,000 | 33,000 | 136,000 | 58,000 | 1,604,000 | 22 | 19 | 16 | 11 | 22 | 19 |
| 2005 | 522,000 | 1,348,000 | 28,000 | 216,000 | 33,000 | 2,147,000 | 16 | 29 | 12 | 20 | 16 | 26 |
| 2006 | 637,000 | 136,000 | 44,000 | 130,000 | 60,000 | 1,007,000 | 20 | 2 | 25 | 9 | 23 | 8 |
| 2007 | 351,000 | 896,000 | 40,000 | 179,000 | 13,000 | 1,479,000 | 5 | 23 | 22 | 17 | 4 | 17 |
| 2008 | 333,000 | 51,000 | 30,000 | 139,000 | 4,000 | 557,000 | 3 | 1 | 15 | 12 | 1 | 1 |
| 2009 | 425,000 | 810,000 | 39,000 | 362,000 | 22,000 | 1,658,000 | 11 | 20 | 21 | 28 | 8 | 20 |
| 2010 | 392,000 | 185,000 | 27,000 | 184,000 | 9,000 | 797,000 | 9 | 7 | 11 | 19 | 3 | 5 |
| 2011 | 458,000 | 174,000 | 18,000 | 121,000 | 7,000 | 778,000 | 14 | 4 | 4 | 7 | 2 | 4 |
| 2012 | 419,000 | 270,000 | 16,000 | 161,000 | 16,000 | 882,000 | 10 | 9 | 2 | 14 | 6 | 6 |
| 2013 | 437,000 | 976,000 | 16,000 | 511,000 | 15,000 | 1,955,000 | 12 | 25 | 2 | 29 | 5 | 23 |
| 2014 | 487,000 | 399,000 | 23,000 | 267,000 | 22,000 | 1,198,000 | 15 | 15 | 9 | 22 | 8 | 13 |
| 2015 | 753,000 | 422,000 | 33,000 | 181,000 | 48,000 | 1,437,000 | 24 | 17 | 16 | 18 | 19 | 16 |
| 2016 | 362,000 | 349,000 | 18,000 | 277,000 | 24,000 | 1,030,000 | 6 | 13 | 4 | 23 | 10 | 11 |
| 2017 | 341,000 | 926,000 | 11,000 | 288,000 | 24,000 | 1,590,000 | 4 | 24 | 1 | 24 | 10 | 18 |
| 2018 | 294,000 | 256,000 | 22,000 | 89,000 | 50,000 | 711,000 | 1 | 8 | 7 | 5 | 20 | 2 |
| 2019 | 326,000 | 175,000 | 20,000 | 175,000 | 26,000 | 722,000 | 2 | 5 | 6 | 15 | 12 | 3 |
| 2020 | 386,000 | 291,000 | 23,000 | 290,000 | 29,000 | 1,019,000 | 8 | 10 | 9 | 25 | 14 | 9 |

* Color coding from mean averages from 1992-2019: Green - above average; Yellow - below average but higher than 1 SD; and Red - below average and lower than 1 SD.

| Average: | Sockeye | Pink | Chinook | Coho | Chum | Total |
|----------|---------|---------|---------|---------|--------|-----------|
| 94-19 | 548,000 | 540,000 | 30,000 | 194,000 | 42,000 | 1,354,000 |

In-season Total Return to Canada (TRTC) and Nisga'a entitlement estimates for Nass salmon:

Current in-season TRTC estimates estimated by NFWD for Nass Sockeye (261,000; range: 169,000–353,000) and Chinook (19,000; range: 17,000–20,000) are based on run size and harvest projections from in-season to final regression methods and run timing ranges to Area 3 to date for Nass Sockeye (49%; range: 34–65%) and Chinook (87%; range: 62–95%, including lower/coastal stocks). Insufficient in-season data are available for the other Nass salmon species so pre-season Nisga'a entitlements are considered as preliminary harvest targets. The current in-season TRTC estimates for Nass Sockeye and Chinook are tracking below pre-season forecasts with estimated run-timing ranges.

Nisga'a harvest entitlement ranges for 2020 to date:

- Nass Sockeye is between 18,000 and 52,000 with a current harvest estimate of 21,378 to date;
- Nass Chinook, between 3,600 and 4,200 with a current harvest of 5,031 (including release mortalities);
- Nass Coho, between 17,000 and 19,200 based on pre-season with a current harvest of 2;
- Nass Pink, between 3,000 and 21,000 based on pre-season with current harvest of 557 (including release mortalities);
- Nass Chum, between <500 and 2,900 based on pre-season with current harvest of 28; and
- Nass steelhead, upper limit is 1,000 summer-run with current harvest of 34.

| IN-SEASON TRTC & ENTITLEMENT ESTIMATES | SOCK | CHIN | COHO | PINK-EVE | CHUM |
|--|---------|--------|------------|------------|------------|
| PROJECTED TRTC BASED ON INSEASON TO FINAL REGRESSION | 261,000 | 19,000 | Pre-season | Pre-season | Pre-season |
| ESTIMATED %TRTC TO DATE: MEAN. RUN TIMING | 49% | 87% | 0% | 0% | 1% |
| Lower (95% CI) | 169,000 | 17,000 | Pre-season | Pre-season | Pre-season |
| Upper (95% ci.) | 353,000 | 20,000 | Pre-season | Pre-season | Pre-season |
| IN-SEASON NISGA'A ENTITLEMENT TARGET | 26,000 | 4,000 | Pre-season | Pre-season | Pre-season |
| MINIMUM | 18,000 | 3,600 | | | |
| MAXIMUM | 52,000 | 4,200 | | | |

The next Nass River general stock assessment update from the Nisga'a Fisheries and Wildlife Department is planned for: **Thursday, 23 July 2020.**

Nass stock assessment updates are available at the following links (no passwords are required):

Weekly email updates are posted after each update to DFO and NLG's websites:

- DFO: <http://www.pac.dfo-mpo.gc.ca/fm-gp/northcoast-cotenord/nass-eng.html>
- NLG: <http://www.nisgaanation.ca/stock-assessments>

Daily and weekly run size information are also posted on Mondays, Wednesdays, and Fridays to the following site:

- <ftp://ftp.lgl.com/Nass%20Stock%20Assessment%20Updates/>



Photo 1. Sockeye Salmon caught and spaghetti tagged at Gitwinksihlkw fishwheels on 6 July 2020.



Photo 2. Chinook Salmon caught and operculum tagged at Gitwinksihlkw fishwheels on 10 July 2020.



Photo 3. Chinook Salmon caught and operculum tagged at Gitwinksihlkw fishwheels on 10 July 2020.



Photo 4. Pink Salmon caught and adipose hole-punched at Gitwinksihlkw fishwheels on 11 July 2020.



Photo 5. Chum Salmon caught and operculum tagged at Gitwinksihlkw fishwheels on 11 July 2020.



Photo 6. Dolly Varden caught and anchor tagged at Gitwinksihlkw fishwheels on 11 July 2020.

Photos courtesy of NFWD's senior crew leader, Ben Guno Jr, and fishwheels crews.



Nisga'a Lisims Government

NISGA'A FISHERIES & WILDLIFE
 T 250 633 2617 / F 250 633 2971
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 PO Box 228 / 5101 Gitzyon St
 New Aiyansh BC / Canada V0J 1A0
 NISGAANATION.CA

2020 NASS STOCK ASSESSMENT UPDATE

| FISHWHEEL OPERATIONAL DATA TO: | 15-Jul-20 |
|---|-----------|
| WATER LEVEL FOR DATE AT GITWINKSIHLKW (m) | 2.4 |
| HISTORICAL LEVEL FOR DATE - MEAN 94-19 (m) | 2.5 |
| WATER TEMPERATURE FOR DATE AT GITWINKSIHLKW (m) | 8.2 |
| HISTORICAL WATER TEMP FOR DATE - MEAN 94-19 (m) | 9.9 |

| FISHWHEEL CATCH SUMMARIES | SOCK | CHIN | COHO | STEEL | PINK-EVE | CHUM | LAMP |
|--|--------|-------|--------|-------|----------|------|------|
| FISHWHEEL TOTAL CATCH OF ADULTS | 13,224 | 2,189 | 1 | 4 | 22 | 3 | 159 |
| HISTORICAL AVG CUM CATCH (00-19) TO DATE | 15,800 | 3,600 | 3 | 10 | 40 | 2 | 210 |
| HISTORICAL AVG CUM TOTAL CATCH (00-19) | 42,000 | 4,000 | 14,000 | 1,000 | 12,000 | 130 | 700 |
| AVERAGE DAILY CATCH (5 D) OF ADULTS - GW | 296 | 25 | 0 | 0 | 4 | 0 | 0 |
| AVERAGE DAILY CATCH (5 D) OF ADULTS - GH | 741 | 111 | 0 | 0 | 0 | 0 | 5 |
| FISHWHEEL TOTAL TAGGED (OR ADIPOSE FIN MARKED) | 3,114 | 1,991 | 1 | 2 | 0 | 2 | 105 |
| FISHWHEEL TOTAL JACKS | 1,213 | 1,551 | 0 | NA | NA | NA | NA |
| HISTORICAL MEAN JACKS (00-19) TO DATE | 810 | 495 | 1 | NA | NA | NA | NA |

| IN-SEASON RUN SIZE SUMMARIES | SOCK | CHIN | COHO | STEEL | 15-Jul-20 |
|---|---------|--------|--------|-------|-----------|
| IN-SEASON RUN SIZE ESTIMATE TO DATE | 71,908 | 7,993 | 13 | 12 | |
| HISTORICAL MEAN RUN SIZE TO GW FOR DATE (94-19) | 123,000 | 17,400 | 34 | 80 | |
| RUN SIZE TARGET 2020 (MIN. FOR STEELHEAD) | 230,000 | 15,000 | 65,000 | 4,200 | |

| IN-SEASON FORECASTS TO GW - METHODS: | SOCK | CHIN | COHO | STEEL | 15-Jul-20 |
|--|---------|--------|---------|--------|----------------------------|
| 1. RUN TIMING METHOD (94-19) - Mean Run timing | 166,000 | 9,000 | 34,000 | 2,000 | |
| Lower (-2 S.D.) | 115,000 | 8,000 | 10,000 | 1,000 | |
| Upper (+2 S.D.) | 333,000 | 10,000 | 68,000 | 4,000 | In-season/Final |
| 2. IN-SEASON TO FINAL (regression): | 224,000 | 10,000 | 82,000 | 10,000 | r ² (CH) = 0.99 |
| 95% CI - lower | 140,000 | 8,000 | 49,000 | 7,000 | r ² (SO) = 0.57 |
| 95% CI - upper | 308,000 | 11,000 | 102,000 | 14,000 | r ² (CO) = 0.19 |
| GW RUN SIZE TARGET (DEPENDING ON HARVESTS ABOVE GW) | 230,000 | 15,000 | 65,000 | 4,200 | r ² (ST) = 0.18 |
| Mean Run Timing % Return Estimate to GW fishwheels (94-19) | 43% | 90% | 0.0% | 0.6% | |
| Late run | 27% | 68% | 0.0% | 0.0% | |
| Early run | 60% | 96% | 0.2% | 3.0% | |

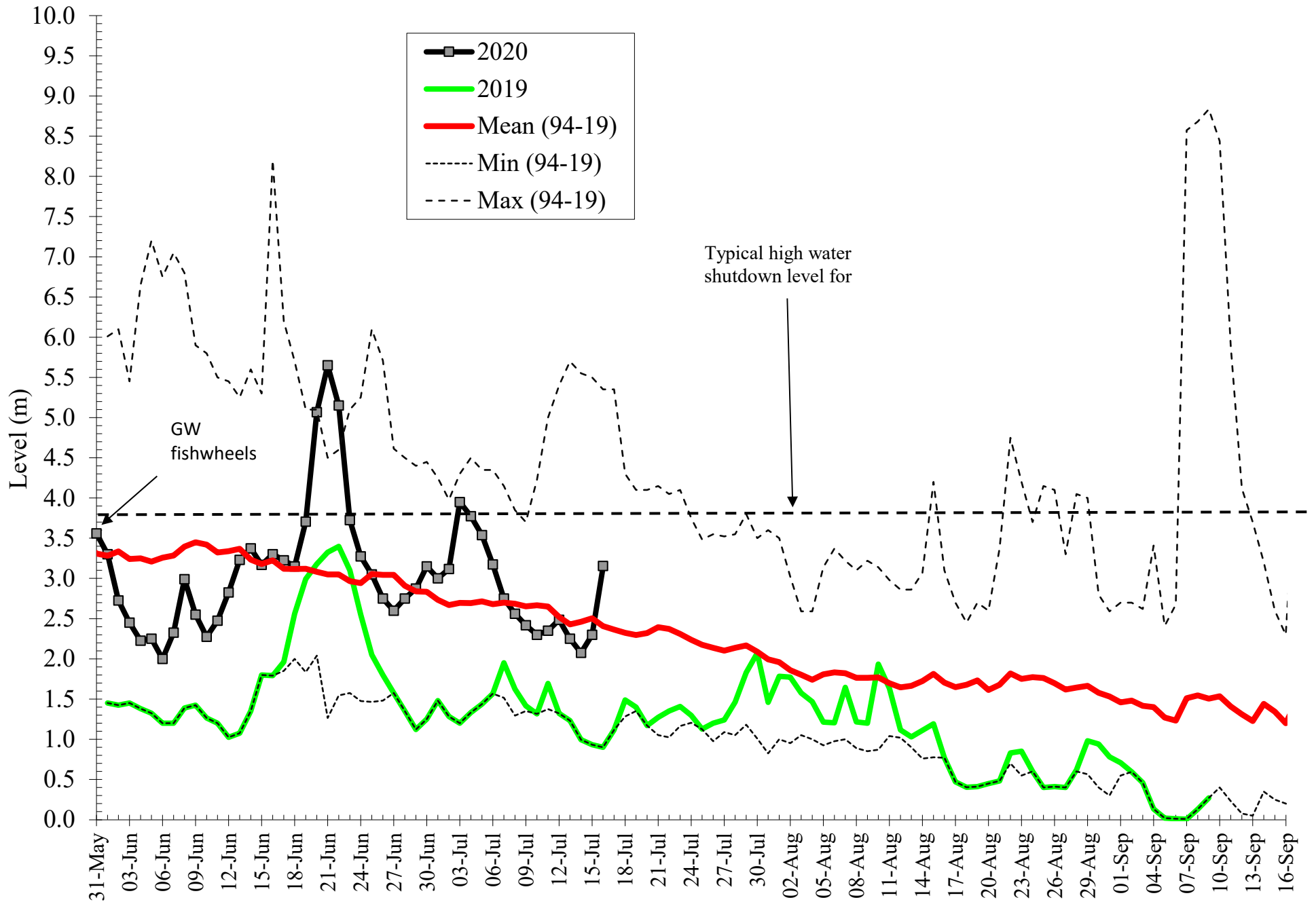
| IN-SEASON NET ESCAPEMENT ESTIMATES | SOCK | CHIN | COHO | STEEL | 15-Jul-20 |
|--|---------|--------|--------|-------|-----------|
| HARVEST ESTIMATES ABOVE GW TO DATE | 6,819 | 1,505 | - | - | |
| NET ESCAPEMENT (ABOVE GW): | 65,089 | 6,488 | 13 | 12 | |
| NET ESCAPEMENT TARGET (UPPER RIVER ONLY) | 200,000 | 13,000 | 60,000 | 4,000 | |

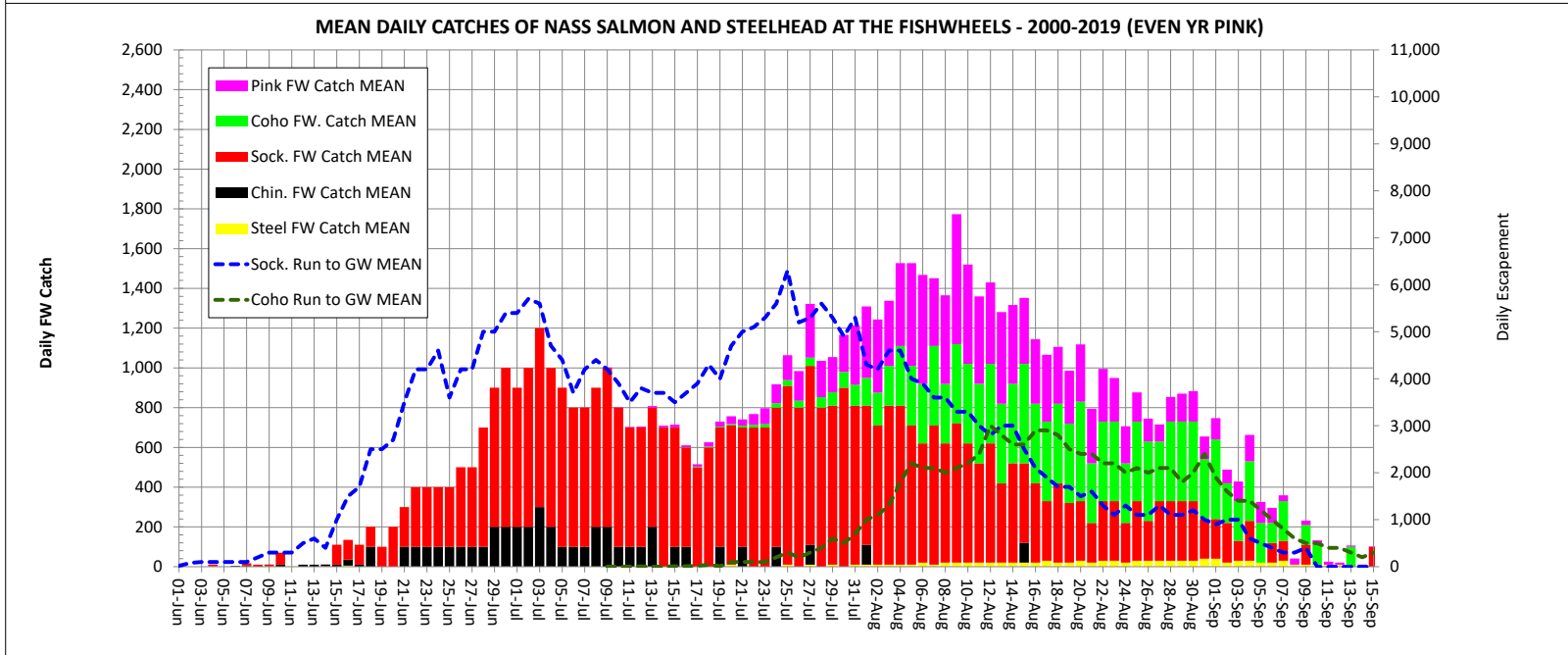
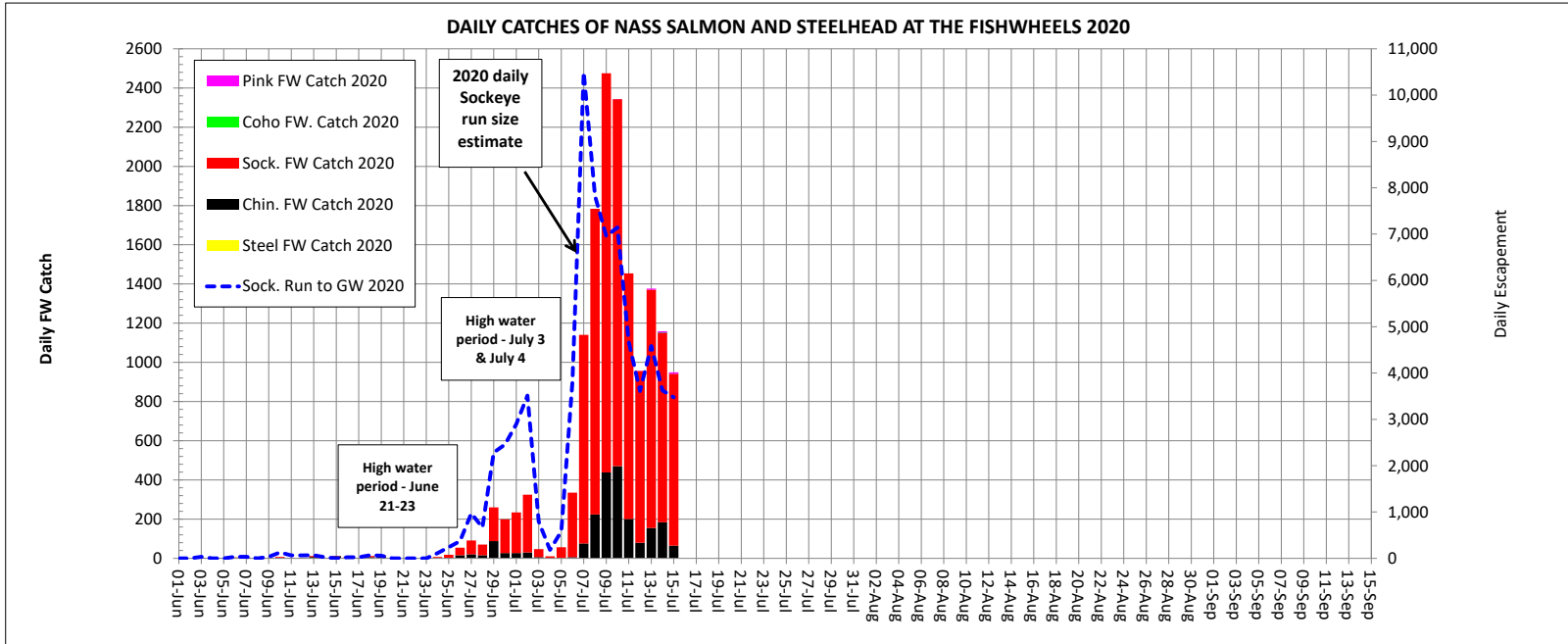
| NISGA'A TOTAL HARVEST SUMMARY | SOCK | CHIN | COHO | PINK-EVE | CHUM | STEEL |
|--|--------|--------|--------|----------|--------|--------|
| MARINE SALE FISHERY TOTAL | CLOSED | CLOSED | CLOSED | CLOSED | CLOSED | CLOSED |
| IN-RIVER SALE FISHERY TOTAL | CLOSED | CLOSED | CLOSED | CLOSED | CLOSED | CLOSED |
| INDIVIDUAL SALE (IS) FISHERY TOTAL | CLOSED | CLOSED | CLOSED | CLOSED | CLOSED | CLOSED |
| NLG COMMUNAL SELECTIVE TREATY FISHERY - GH FISHWHEELS | CLOSED | CLOSED | CLOSED | CLOSED | CLOSED | CLOSED |
| NLG COMMUNAL SELECTIVE TREATY FISHERY - SEINE | CLOSED | CLOSED | CLOSED | CLOSED | CLOSED | CLOSED |
| DOMESTIC (FSC) GILLNET FISHERY - WK END: 11 JULY | 21,378 | 5,031 | 2 | 557 | 28 | 34 |
| SUB TOTAL (NLG TREATY FISHERIES) | 21,378 | 5,031 | 2 | 557 | 28 | 34 |
| NLG SOCK DEMONSTRATION FISHERY HARVEST - DFO INVENTORY | CLOSED | CLOSED | CLOSED | CLOSED | CLOSED | CLOSED |
| GRAND TOTAL | 21,378 | 5,031 | 2 | 557 | 28 | 34 |

| PRE-SEASON TRTC & ENTITLEMENT FORECASTS | SOCK | CHIN | COHO | PINK-EVE | CHUM |
|---|---------|---------|---------|----------|-------------|
| HISTORICAL MEAN TRTC (1994-2019) | 548,000 | 30,000 | 194,000 | 540,000 | 42,000 |
| PRE-SEASON TRTC FORECAST (50% PROBABILITY) | 386,000 | 23,000 | 290,000 | 291,000 | 29,000 |
| PRE-SEASON NISGA'A ENTITLEMENT | 59,000 | 4,800 | 19,200 | 11,000 | 500 |
| CUM UNDERAGE (+)/OVERAGE (-) AVAILABLE OR OWED: 2000-19 | -1,828 | rebuild | 2,067 | -2,886 | < esc. goal |
| TOTAL PRE-SEASON NISGA'A CATCH POTENTIAL | 57,000 | 4,800 | 21,000 | 8,000 | 500 |

| IN-SEASON TRTC & ENTITLEMENT ESTIMATES | SOCK | CHIN | COHO | PINK-EVE | CHUM |
|--|---------|--------|------------|------------|------------|
| PROJECTED TRTC BASED ON INSEASON TO FINAL REGRESSION | 261,000 | 19,000 | Pre-season | Pre-season | Pre-season |
| ESTIMATED %TRTC TO DATE: MEAN. RUN TIMING | 49% | 87% | 0% | 0% | 1% |
| Lower (95% CI) | 169,000 | 17,000 | Pre-season | Pre-season | Pre-season |
| Upper (95% ci.) | 353,000 | 20,000 | Pre-season | Pre-season | Pre-season |
| IN-SEASON NISGA'A ENTITLEMENT TARGET | 26,000 | 4,000 | Pre-season | Pre-season | Pre-season |
| MINIMUM | 18,000 | 3,600 | | | |
| MAXIMUM | 52,000 | 4,200 | | | |

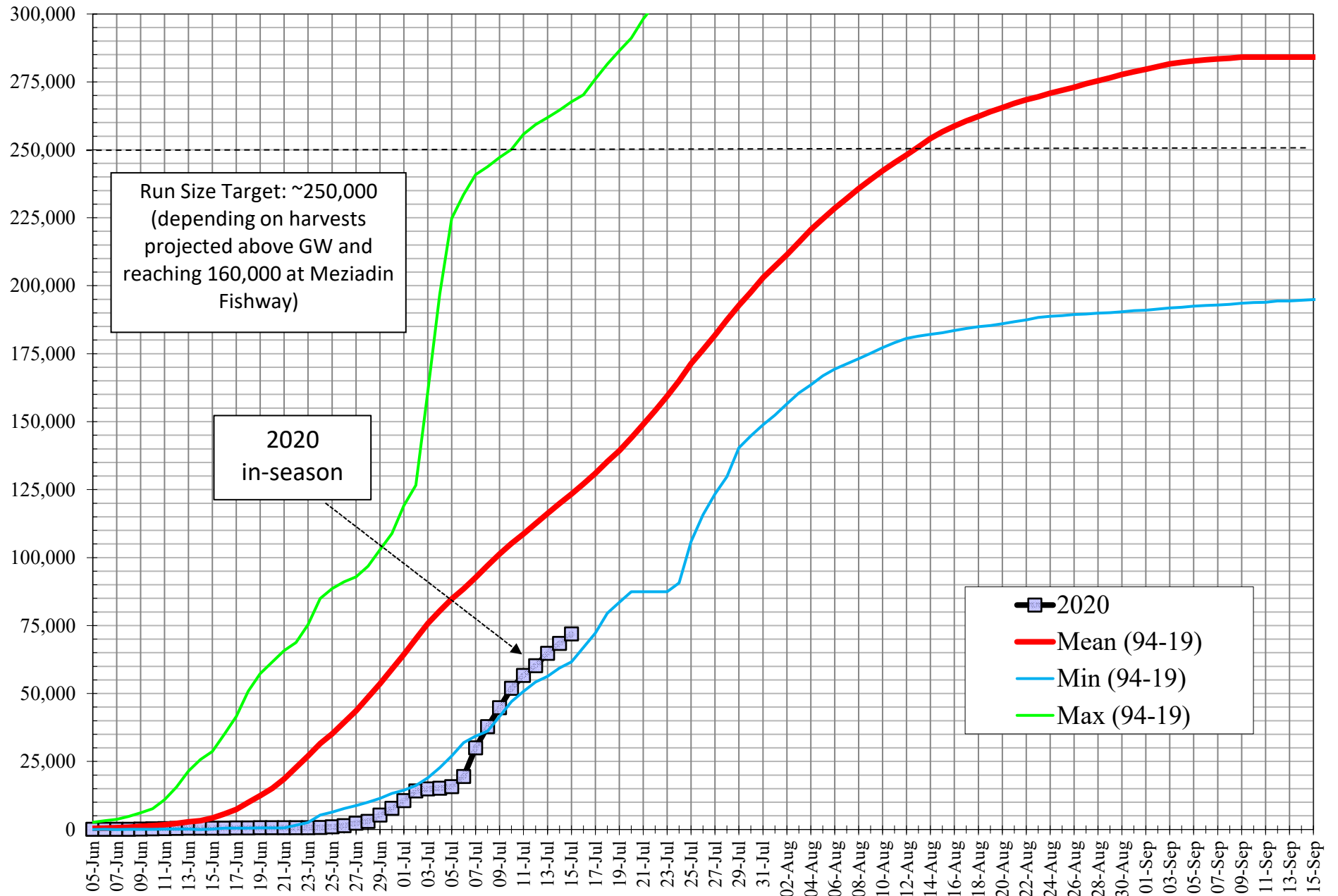
Daily Water Level at Gitwinksihlkw Fishwheels 2020





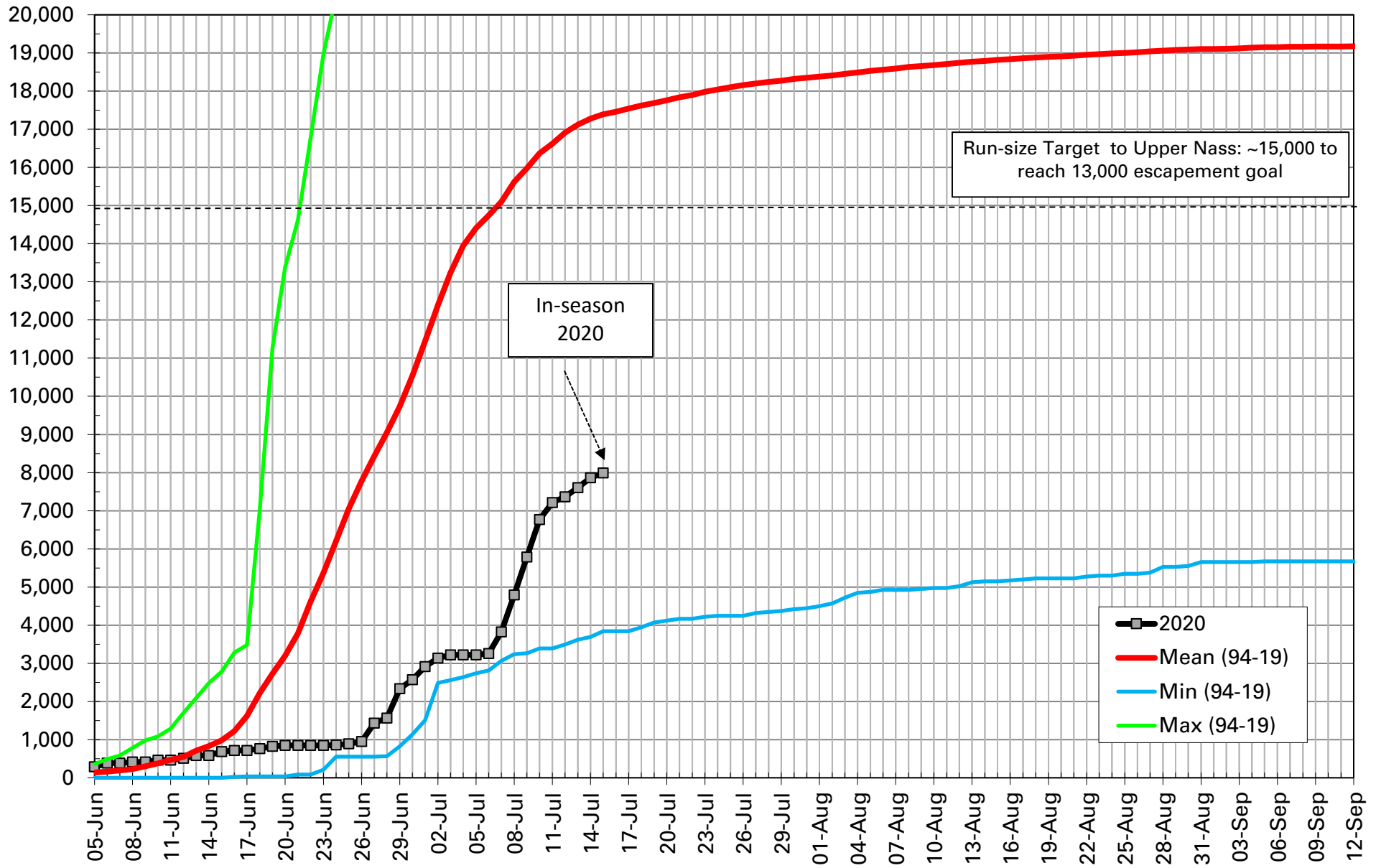
| Cumulative Daily Run Sizes of Adult Nass River Sockeye Salmon (≥ 45 cm NFL) to Gitwinksihlkw Fishwheels, 2000-2020. | | | | | | | | | | | | | | | | | | | | | IN-SEASON (FW-MR) | | |
|--|---------|--------|---------|---------|---------|---------|---------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|---------|---------|-------------------|---------|--------|
| Note: In-season cum. values with yellow shading are preliminary and will change as these fish pass the upper fishwheels to finalize mark-recapture data over a 5-d period. | | | | | | | | | | | | | | | | | | | | | 2020 | Mean | 2020 |
| Date | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | Cum | (94-19) | Daily |
| 01-Jun | | | | | | | | | | 0 | 0 | 0 | 216 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 0 |
| 02-Jun | | | | | | | | | | 175 | 119 | 0 | 809 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 0 |
| 03-Jun | | | | | | | | | | 175 | 119 | 0 | 1,173 | 93 | 275 | 0 | 0 | 0 | 0 | 36 | 32 | 200 | 32 |
| 04-Jun | | | | | | | | | | 175 | 158 | 0 | 1,609 | 278 | 687 | 0 | 127 | 14 | 34 | 72 | 32 | 300 | 0 |
| 05-Jun | | | | | | | | | | 175 | 238 | 0 | 2,646 | 432 | 824 | 283 | 190 | 58 | 34 | 107 | 32 | 400 | 0 |
| 06-Jun | | | | | | 40 | | | 207 | 175 | 360 | 25 | 3,245 | 494 | 1,510 | 534 | 318 | 101 | 67 | 143 | 66 | 500 | 34 |
| 07-Jun | | 0 | | | | 121 | | | 326 | 175 | 401 | 75 | 3,682 | 572 | 2,060 | 1,069 | 445 | 173 | 67 | 197 | 98 | 600 | 32 |
| 08-Jun | | 864 | | | | 229 | 52 | | 533 | 175 | 441 | 275 | 4,754 | 788 | 3,444 | 1,699 | 604 | 216 | 135 | 286 | 98 | 800 | 0 |
| 09-Jun | | 1,326 | | | | 229 | 234 | | 741 | 175 | 645 | 524 | 6,136 | 1,070 | 5,060 | 1,983 | 732 | 245 | 135 | 483 | 131 | 1,100 | 32 |
| 10-Jun | | 1,505 | | | | 229 | 468 | | 1,127 | 175 | 645 | 699 | 7,027 | 1,523 | 7,644 | 2,141 | 987 | 245 | 232 | 662 | 260 | 1,400 | 129 |
| 11-Jun | | 1,521 | | | 174 | 364 | 469 | | 1,542 | 175 | 849 | 1,024 | 7,398 | 2,071 | 10,921 | 2,487 | 1,210 | 245 | 264 | 822 | 325 | 1,700 | 65 |
| 12-Jun | 111 | 1,814 | | | 1,059 | 836 | 469 | | 1,928 | 175 | 1,134 | 1,322 | 7,413 | 3,136 | 15,583 | 3,811 | 1,784 | 245 | 296 | 1,180 | 389 | 2,200 | 65 |
| 13-Jun | 111 | 2,577 | | | 1,783 | 1,196 | 469 | | 2,314 | 175 | 1,294 | 1,620 | 7,413 | 4,137 | 21,491 | 5,102 | 2,263 | 245 | 361 | 1,412 | 455 | 2,800 | 66 |
| 14-Jun | 111 | 2,756 | | 1,511 | 2,375 | 1,723 | 469 | 0 | 2,551 | 175 | 1,414 | 2,366 | 8,430 | 5,436 | 25,737 | 7,208 | 2,773 | 282 | 393 | 1,680 | 477 | 3,200 | 22 |
| 15-Jun | 111 | 3,032 | | 5,204 | 3,328 | 2,250 | 469 | 154 | 2,758 | 175 | 1,733 | 3,484 | 10,465 | 7,174 | 28,694 | 9,911 | 2,933 | 505 | 715 | 2,234 | 477 | 4,200 | 0 |
| 16-Jun | 553 | 3,877 | | 10,343 | 4,973 | 3,776 | 469 | 488 | 3,466 | 1,773 | 2,092 | 5,671 | 12,009 | 8,441 | 34,958 | 14,815 | 3,188 | 703 | 1,425 | 3,341 | 499 | 5,700 | 22 |
| 17-Jun | 2,517 | 4,832 | | 15,268 | 8,689 | 6,161 | 469 | 561 | 4,587 | 4,447 | 2,691 | 6,690 | 12,082 | 9,108 | 41,540 | 20,661 | 3,411 | 826 | 2,160 | 4,804 | 521 | 7,400 | 22 |
| 18-Jun | 4,342 | 6,216 | | 20,996 | 17,734 | 9,656 | 469 | 561 | 6,210 | 8,336 | 4,327 | 9,126 | 12,446 | 10,816 | 50,857 | 26,413 | 3,762 | 1,378 | 3,279 | 5,785 | 586 | 9,900 | 66 |
| 19-Jun | 7,799 | 6,687 | | 27,393 | 23,851 | 11,760 | 667 | 561 | 9,868 | 13,233 | 6,282 | 10,577 | 13,478 | 12,777 | 57,344 | 34,868 | 4,271 | 2,018 | 3,855 | 8,408 | 643 | 12,400 | 57 |
| 20-Jun | 11,781 | 7,033 | | 39,866 | 24,670 | 13,426 | 2,818 | 659 | 13,792 | 17,748 | 9,109 | 12,107 | 13,711 | 13,684 | 61,573 | 40,714 | 5,161 | 2,431 | 4,302 | 11,352 | 643 | 15,100 | 0 |
| 21-Jun | 17,506 | 7,075 | 29,917 | 49,020 | 24,670 | 15,863 | 5,018 | 1,077 | 19,605 | 23,523 | 12,059 | 13,836 | 14,572 | 15,845 | 65,738 | 46,705 | 6,528 | 2,883 | 4,526 | 15,830 | 643 | 18,600 | 0 |
| 22-Jun | 24,476 | 7,075 | 53,842 | 52,179 | 24,670 | 21,386 | 8,356 | 1,616 | 23,216 | 31,305 | 16,811 | 16,598 | 17,368 | 18,620 | 68,743 | 56,095 | 8,816 | 3,422 | 4,814 | 19,845 | 643 | 22,800 | 0 |
| 23-Jun | 32,662 | 7,075 | 75,318 | 55,636 | 24,670 | 26,505 | 13,795 | 2,573 | 24,852 | 40,581 | 23,210 | 19,996 | 17,866 | 24,605 | 70,093 | 65,771 | 11,582 | 4,463 | 4,974 | 22,952 | 643 | 27,000 | 0 |
| 24-Jun | 42,231 | 7,741 | 84,932 | 63,106 | 24,670 | 31,011 | 18,170 | 7,209 | 30,400 | 53,871 | 28,552 | 24,229 | 17,866 | 32,181 | 73,868 | 75,066 | 13,807 | 5,303 | 5,750 | 26,176 | 753 | 31,600 | 110 |
| 25-Jun | 55,229 | 10,934 | 88,616 | 70,810 | 24,670 | 33,641 | 20,639 | 10,058 | 36,366 | 65,154 | 33,615 | 26,911 | 17,866 | 34,456 | 75,537 | 82,174 | 16,858 | 6,401 | 7,692 | 28,449 | 994 | 35,200 | 241 |
| 26-Jun | 72,182 | 16,443 | 91,072 | 76,530 | 26,511 | 35,773 | 22,750 | 15,416 | 40,975 | 72,579 | 39,888 | 30,271 | 17,866 | 44,050 | 78,019 | 88,498 | 19,816 | 7,698 | 14,586 | 30,954 | 1,366 | 39,400 | 372 |
| 27-Jun | 79,898 | 22,058 | 91,072 | 80,990 | 29,568 | 38,720 | 24,384 | 22,065 | 45,804 | 79,358 | 45,962 | 35,037 | 17,888 | 51,420 | 87,281 | 92,872 | 23,117 | 8,782 | 25,913 | 33,053 | 2,336 | 43,600 | 970 |
| 28-Jun | 79,898 | 25,084 | 91,072 | 84,831 | 35,665 | 42,868 | 26,461 | 29,196 | 50,633 | 86,952 | 51,354 | 39,940 | 18,832 | 77,165 | 91,753 | 96,785 | 26,471 | 10,051 | 41,674 | 35,117 | 3,003 | 48,600 | 666 |
| 29-Jun | 79,898 | 26,779 | 98,717 | 86,967 | 41,467 | 48,063 | 31,347 | 36,770 | 54,242 | 91,203 | 55,440 | 43,995 | 31,382 | 91,289 | 94,676 | 102,875 | 31,119 | 11,449 | 47,758 | 36,392 | 5,287 | 53,600 | 2,285 |
| 30-Jun | 79,898 | 30,487 | 102,127 | 89,504 | 48,006 | 54,382 | 37,066 | 43,172 | 58,643 | 94,237 | 58,436 | 48,384 | 42,726 | 96,013 | 97,207 | 108,877 | 34,394 | 13,232 | 51,512 | 39,234 | 7,744 | 59,000 | 2,456 |
| 01-Jul | 85,966 | 33,888 | 108,610 | 92,742 | 51,160 | 58,517 | 41,833 | 45,336 | 67,993 | 97,871 | 61,322 | 52,772 | 55,482 | 100,305 | 98,557 | 119,099 | 36,586 | 14,430 | 56,874 | 43,247 | 10,640 | 64,400 | 2,896 |
| 02-Jul | 103,938 | 35,981 | 126,584 | 93,809 | 56,227 | 61,515 | 46,050 | 48,452 | 76,305 | 102,054 | 62,848 | 55,662 | 75,066 | 104,651 | 101,507 | 126,156 | 38,038 | 16,189 | 59,108 | 48,638 | 14,153 | 70,100 | 3,514 |
| 03-Jul | 112,961 | 37,197 | 140,994 | 96,534 | 62,259 | 63,453 | 52,191 | 53,305 | 76,305 | 105,208 | 63,774 | 58,654 | 88,722 | 108,543 | 103,801 | 132,554 | 40,013 | 18,975 | 60,793 | 55,451 | 14,945 | 75,700 | 792 |
| 04-Jul | 115,310 | 38,313 | 196,911 | 99,054 | 65,054 | 64,892 | 59,800 | 59,239 | 76,305 | 107,865 | 64,777 | 60,738 | 95,873 | 111,235 | 104,522 | 139,039 | 42,466 | 22,723 | 62,905 | 59,881 | 15,127 | 80,400 | 182 |
| 05-Jul | 117,760 | 39,513 | 224,762 | 101,438 | 69,166 | 67,550 | 66,871 | 62,785 | 76,305 | 110,495 | 66,514 | 62,650 | 98,807 | 112,684 | 106,109 | 145,982 | 44,770 | 27,040 | 64,469 | 63,162 | 15,707 | 84,800 | 580 |
| 06-Jul | 117,760 | 40,914 | 233,579 | 103,953 | 74,438 | 69,271 | 71,193 | 64,873 | 76,305 | 112,850 | 68,813 | 65,152 | 103,551 | 113,873 | 108,589 | 153,038 | 48,449 | 31,961 | 66,480 | 67,530 | 19,516 | 88,500 | 3,808 |
| 07-Jul | 117,958 | 42,161 | 240,891 | 106,318 | 79,176 | 72,042 | 74,310 | 71,881 | 86,686 | 115,714 | 73,241 | 69,761 | 105,938 | 116,880 | 110,309 | 159,675 | 52,159 | 34,307 | 69,079 | 72,318 | 30,013 | 92,700 | 10,497 |
| 08-Jul | 120,535 | 45,210 | 243,807 | 109,093 | 88,294 | 75,611 | 78,513 | 76,646 | 96,917 | 117,862 | 80,018 | 72,385 | 107,844 | 119,621 | 112,591 | 165,412 | 54,672 | 36,132 | 72,018 | 77,506 | 37,838 | 97,100 | 7,825 |
| 09-Jul | 126,179 | 46,974 | 247,158 | 111,492 | 94,159 | 77,789 | 81,699 | 81,381 | 105,678 | 122,393 | 83,125 | 73,734 | 109,302 | 122,422 | 114,737 | 171,704 | 57,634 | 41,552 | 75,304 | 85,327 | 44,792 | 101,300 | 6,954 |
| 10-Jul | 132,168 | 49,577 | 250,162 | 113,304 | 100,632 | 81,564 | 84,898 | 85,702 | 112,694 | 125,670 | 87,773 | 74,808 | 110,104 | 125,989 | 116,806 | 178,531 | 62,294 | 47,060 | 78,335 | 88,859 | 51,935 | 105,200 | 7,143 |
| 11-Jul | 135,632 | 50,732 | 255,678 | 115,573 | 104,618 | 85,967 | 89,194 | 86,278 | 117,038 | 129,196 | 93,589 | 76,521 | 110,617 | 128,878 | 118,206 | 184,230 | 66,419 | 54,638 | 81,019 | 91,253 | 56,611 | 108,700 | 4,677 |
| 12-Jul | 140,067 | 54,206 | 259,269 | 117,890 | 108,888 | 90,486 | 94,456 | 86,278 | 119,205 | 131,682 | 98,109 | 79,745 | 111,188 | 131,649 | 120,808 | 194,202 | 70,260 | 61,027 | 83,680 | 95,603 | 60,223 | 112,500 | 3,612 |
| 13-Jul | 142,248 | 56,301 | 261,891 | 119,333 | 115,590 | 95,442 | 99,692 | 86,278 | 122,817 | 134,647 | 101,199 | 85,035 | 113,917 | 132,769 | 123,616 | 200,631 | 73,850 | 66,447 | 85,624 | 100,551 | 64,805 | 116,200 | 4,582 |
| 14-Jul | 145,873 | 59,389 | 264,572 | 122,672 | 121,616 | 100,230 | 103,675 | 86,278 | 126,974 | 137,077 | 103,602 | 95,295 | 117,312 | 134,614 | 127,659 | 207,687 | 76,967 | 70,941 | 87,753 | 104,421 | 68,431 | 119,900 | 3,625 |
| 15-Jul | 147,184 | 61,634 | 267,697 | 124,472 | 128,259 | 102,695 | 105,908 | 86,278 | 131,854 | 139,073 | 106,100 | 104,110 | 120,872 | 137,242 | 132,123 | 212,945 | 82,257 | 75,436 | 89,803 | 107,735 | 71,908 | 123,400 | 3,477 |
| 16-Jul | 149,032 | 66,920 | 270,225 | 127,797 | 130,229 | 104,339 | 109,428 | 86,278 | 137,633 | 141,826 | 106,863 | 112,758 | 124,421 | 141,659 | 136,082 | 218,285 | 88,208 | 80,836 | 91,976 | 111,470 | | 127,100 | |
| 17-Jul | 150,546 | 72,272 | 276,077 | 130,616 | 133,526 | 108,093 | 112,389 | 86,278 | 142,705 | 144,324 | 107,740 | 117,770 | 126,835 | 147,866 | 141,276 | 221,173 | 92,180 | 85,383 | 94,792 | 115,570 | | 131,000 | |
| 18-Jul | 151,917 | 79,555 | 281,561 | 134,275 | 137,506 | 115,877 | 115,909 | 90,356 | 145,257 | 146,419 | 110,337 | 124,416 | 131,634 | 155,582 | 146,751 | 226,540 | 97,518 | 89,456 | 99,139 | 118,788 | | 135,300 | |
| 19-Jul | 153,443 | 83,510 | 286,433 | 136,231 | 141,050 | 123,640 | 118,705 | 93,290 | 147,135 | 147,982 | 113,473 | 133,203 | 137,302 | 162,850 | 150,907 | 229,559 | 102,793 | 94,098 | 103,148 | 120,972 | | 139,300 | |
| 20-Jul | 154,540 | 87,412 | 291,060 | 142,802 | 146,018 | 133,291 | 122,554 | 96,029 | 150,432 | 150,540 | 118,716 | 142,564 | 145,152 | 170,566 | 157,059 | 232,455 | 109,879 | 99,309 | 106,576 | 122,466 | | 144,000 | |
| 21-Jul | 155,565 | 87,412 | 298,1 | | | | | | | | | | | | | | | | | | | | |

Nass Sockeye Cum. Run Size to Gitwinksilkw Fishwheels 2020 versus 94-19 Mean, Min, Max returns (before upriver harvests)



| Cumulative Daily Run Sizes of Adult Nass River Chinook Salmon (≥ 50 cm NFL) to Gitwinksihkw Fishwheels, 2000-2020. | | | | | | | | | | | | | | | | | | | | IN-SEASON | | | | |
|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|--------|--------|-------|-------|--------|-----------|-------|--------------|------------|----|
| Date | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | Mean (94-19) | 2020 Daily | |
| 01-Jun-20 | | | | | | | | | | | 0 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 48 | 0 | 0 | 10 | | |
| 02-Jun-20 | | | | | | | | | | | 0 | 0 | 24 | 0 | 0 | 0 | 0 | 0 | 144 | 40 | 48 | 20 | 48 | |
| 03-Jun-20 | | | | | | | | | | | 0 | 0 | 24 | 17 | 97 | 0 | 46 | 0 | 240 | 100 | 144 | 50 | 96 | |
| 04-Jun-20 | | | | | | | | | | | 0 | 122 | 0 | 24 | 50 | 97 | 0 | 68 | 25 | 288 | 181 | 192 | 80 | 48 |
| 05-Jun-20 | | | | | | | | | | | 0 | 244 | 0 | 47 | 67 | 161 | 59 | 91 | 50 | 288 | 361 | 288 | 140 | 96 |
| 06-Jun-20 | | | | | | 14 | | | 23 | 0 | 488 | 0 | 71 | 67 | 290 | 88 | 114 | 151 | 288 | 442 | 384 | 160 | 96 | |
| 07-Jun-20 | | 23 | | | | 72 | | | 69 | 0 | 548 | 21 | 71 | 84 | 483 | 133 | 228 | 201 | 336 | 582 | 384 | 190 | 0 | |
| 08-Jun-20 | | 168 | | | | 72 | 47 | | 115 | 0 | 731 | 106 | 95 | 134 | 772 | 177 | 319 | 226 | 336 | 783 | 414 | 230 | 30 | |
| 09-Jun-20 | | 306 | | | | 72 | 141 | | 138 | 0 | 914 | 212 | 102 | 167 | 901 | 177 | 410 | 251 | 336 | 984 | 414 | 300 | 0 | |
| 10-Jun-20 | | 345 | | | | 72 | 157 | | 208 | 0 | 975 | 212 | 126 | 301 | 1,030 | 177 | 547 | 251 | 336 | 1,084 | 462 | 380 | 48 | |
| 11-Jun-20 | | 352 | | | 16 | 101 | 157 | | 600 | 0 | 1,219 | 212 | 134 | 318 | 1,287 | 251 | 707 | 251 | 384 | 1,144 | 462 | 470 | 0 | |
| 12-Jun-20 | 32 | 559 | | | 49 | 174 | 157 | | 669 | 0 | 1,280 | 276 | 142 | 318 | 1,706 | 487 | 912 | 251 | 529 | 1,184 | 510 | 550 | 48 | |
| 13-Jun-20 | 32 | 1,248 | | | 98 | 405 | 157 | | 669 | 0 | 1,524 | 467 | 142 | 351 | 2,092 | 811 | 1,322 | 301 | 577 | 1,204 | 584 | 710 | 74 | |
| 14-Jun-20 | 32 | 1,409 | | 31 | 147 | 506 | 157 | 0 | 715 | 0 | 1,645 | 616 | 142 | 485 | 2,478 | 1,976 | 1,527 | 352 | 769 | 1,224 | 584 | 830 | 0 | |
| 15-Jun-20 | 32 | 1,471 | | 279 | 245 | 550 | 157 | 0 | 738 | 0 | 1,828 | 722 | 300 | 619 | 2,768 | 2,403 | 1,573 | 553 | 865 | 1,245 | 688 | 980 | 104 | |
| 16-Jun-20 | 162 | 1,731 | | 1,164 | 636 | 665 | 157 | 25 | 853 | 159 | 2,499 | 892 | 457 | 686 | 2,929 | 2,624 | 1,687 | 653 | 1,153 | 1,365 | 718 | 1,220 | 30 | |
| 17-Jun-20 | 851 | 2,252 | | 2,513 | 1,908 | 1,143 | 157 | 37 | 1,222 | 319 | 2,742 | 977 | 457 | 686 | 3,315 | 3,170 | 1,801 | 754 | 1,393 | 1,606 | 718 | 1,620 | 0 | |
| 18-Jun-20 | 1,411 | 2,903 | | 5,042 | 3,946 | 2,068 | 157 | 37 | 1,315 | 546 | 3,352 | 1,253 | 489 | 719 | 3,701 | 3,361 | 2,006 | 904 | 1,730 | 1,766 | 762 | 2,220 | 44 | |
| 19-Jun-20 | 2,014 | 3,209 | | 6,035 | 4,386 | 2,633 | 173 | 37 | 1,730 | 865 | 4,083 | 1,401 | 505 | 803 | 3,991 | 3,730 | 2,165 | 1,181 | 1,874 | 1,807 | 823 | 2,730 | 61 | |
| 20-Jun-20 | 2,930 | 3,278 | | 7,059 | 4,418 | 2,864 | 361 | 37 | 2,168 | 1,275 | 5,058 | 1,593 | 520 | 837 | 4,592 | 4,172 | 2,553 | 1,281 | 1,874 | 2,168 | 846 | 3,200 | 23 | |
| 21-Jun-20 | 4,190 | 3,278 | 866 | 11,838 | 4,418 | 3,153 | 896 | 86 | 2,629 | 2,345 | 6,643 | 1,869 | 528 | 937 | 4,474 | 5,086 | 2,826 | 1,306 | 1,874 | 3,473 | 846 | 3,790 | 0 | |
| 22-Jun-20 | 5,482 | 3,278 | 2,553 | 16,771 | 4,418 | 3,732 | 1,760 | 86 | 2,883 | 4,484 | 8,471 | 2,187 | 544 | 1,054 | 4,860 | 6,767 | 3,100 | 1,331 | 1,874 | 4,717 | 846 | 4,620 | 0 | |
| 23-Jun-20 | 7,453 | 3,278 | 4,421 | 18,974 | 4,418 | 4,600 | 3,284 | 210 | 2,883 | 6,738 | 9,933 | 2,718 | 552 | 1,104 | 4,924 | 7,976 | 3,373 | 1,482 | 1,922 | 5,761 | 846 | 5,370 | 0 | |
| 24-Jun-20 | 9,457 | 3,286 | 5,816 | 20,510 | 4,418 | 6,133 | 5,357 | 1,479 | 3,114 | 11,109 | 11,335 | 3,164 | 552 | 1,221 | 5,600 | 9,259 | 3,738 | 1,784 | 1,970 | 6,403 | 861 | 6,210 | 15 | |
| 25-Jun-20 | 11,665 | 3,692 | 6,144 | 21,240 | 4,418 | 7,840 | 9,662 | 1,886 | 3,483 | 15,388 | 12,615 | 3,461 | 552 | 1,238 | 5,697 | 10,615 | 4,331 | 1,859 | 2,162 | 6,945 | 891 | 7,050 | 30 | |
| 26-Jun-20 | 12,752 | 6,380 | 6,354 | 21,519 | 4,418 | 9,286 | 12,553 | 2,613 | 4,475 | 15,912 | 13,834 | 3,843 | 552 | 1,389 | 5,561 | 11,676 | 4,923 | 2,035 | 3,123 | 7,327 | 950 | 7,780 | 59 | |
| 27-Jun-20 | 12,979 | 9,827 | 6,354 | 21,798 | 4,484 | 9,966 | 13,024 | 3,919 | 5,766 | 16,686 | 14,992 | 4,311 | 552 | 1,506 | 6,276 | 12,148 | 5,334 | 2,085 | 5,670 | 8,029 | 1,431 | 8,430 | 481 | |
| 28-Jun-20 | 12,979 | 10,546 | 6,354 | 22,093 | 4,516 | 10,472 | 13,134 | 5,201 | 6,873 | 20,100 | 15,845 | 4,757 | 568 | 3,079 | 6,855 | 12,826 | 5,676 | 2,135 | 7,496 | 8,390 | 1,564 | 9,050 | 133 | |
| 29-Jun-20 | 12,979 | 10,738 | 8,168 | 22,512 | 4,908 | 11,022 | 13,590 | 5,571 | 7,289 | 22,172 | 16,454 | 5,181 | 828 | 2,587 | 7,531 | 14,168 | 6,542 | 2,236 | 8,553 | 8,611 | 2,335 | 9,740 | 771 | |
| 30-Jun-20 | 12,979 | 11,067 | 9,864 | 22,776 | 5,658 | 11,268 | 16,292 | 6,076 | 7,496 | 23,447 | 16,637 | 5,861 | 1,135 | 6,592 | 8,143 | 14,890 | 7,020 | 2,286 | 9,322 | 8,712 | 2,572 | 10,540 | 237 | |
| 01-Jul-20 | 13,140 | 13,495 | 10,821 | 22,900 | 6,130 | 11,514 | 19,340 | 6,187 | 8,027 | 24,198 | 16,759 | 6,901 | 1,506 | 7,061 | 8,625 | 15,849 | 7,431 | 2,437 | 10,187 | 8,977 | 2,913 | 11,440 | 341 | |
| 02-Jul-20 | 13,754 | 19,538 | 11,933 | 22,915 | 7,370 | 11,731 | 21,414 | 6,434 | 8,811 | 24,721 | 16,820 | 7,475 | 2,578 | 7,479 | 9,108 | 16,999 | 7,750 | 2,487 | 10,427 | 9,089 | 3,136 | 12,390 | 222 | |
| 03-Jul-20 | 14,734 | 24,501 | 12,544 | 23,117 | 9,163 | 12,049 | 22,419 | 7,679 | 8,811 | 24,949 | 17,003 | 8,324 | 4,233 | 7,646 | 9,526 | 17,765 | 7,864 | 2,562 | 10,859 | 9,138 | 3,223 | 13,240 | 87 | |
| 04-Jul-20 | 15,251 | 25,688 | 13,291 | 23,427 | 10,761 | 12,382 | 23,001 | 11,968 | 8,811 | 25,382 | 17,124 | 8,515 | 5,574 | 8,115 | 9,526 | 18,620 | 7,909 | 2,638 | 11,052 | 9,198 | 3,223 | 13,950 | 0 | |
| 05-Jul-20 | 15,413 | 26,110 | 13,829 | 23,877 | 12,408 | 12,657 | 23,535 | 13,287 | 8,811 | 25,837 | 17,124 | 8,685 | 6,062 | 8,684 | 9,687 | 19,078 | 8,046 | 2,738 | 11,292 | 9,313 | 3,223 | 14,410 | 0 | |
| 06-Jul-20 | 15,413 | 26,393 | 14,385 | 24,637 | 13,337 | 12,671 | 23,786 | 13,521 | 8,811 | 26,087 | 17,246 | 8,812 | 6,819 | 8,935 | 10,234 | 19,387 | 8,183 | 2,814 | 11,436 | 9,693 | 3,257 | 14,740 | 34 | |
| 07-Jul-20 | 15,424 | 26,860 | 14,786 | 25,211 | 13,386 | 12,729 | 24,053 | 15,924 | 8,857 | 26,224 | 17,307 | 9,046 | 7,434 | 9,219 | 10,428 | 19,579 | 8,570 | 3,065 | 11,580 | 10,375 | 3,826 | 15,100 | 569 | |
| 08-Jul-20 | 15,553 | 29,418 | 15,051 | 25,956 | 13,467 | 13,033 | 24,116 | 19,807 | 9,872 | 26,338 | 17,734 | 9,195 | 7,671 | 9,286 | 10,653 | 19,741 | 8,753 | 3,241 | 11,868 | 10,907 | 4,791 | 15,620 | 965 | |
| 09-Jul-20 | 15,919 | 30,008 | 15,124 | 26,189 | 13,630 | 13,510 | 24,242 | 21,878 | 12,224 | 26,543 | 17,917 | 9,301 | 7,789 | 9,387 | 10,975 | 19,756 | 8,981 | 3,266 | 11,964 | 11,049 | 5,785 | 15,980 | 994 | |
| 10-Jul-20 | 16,414 | 30,958 | 15,224 | 26,406 | 13,859 | 14,103 | 24,367 | 23,110 | 15,799 | 26,747 | 18,039 | 9,471 | 7,797 | 9,420 | 11,168 | 19,770 | 9,163 | 3,391 | 12,109 | 11,172 | 6,768 | 16,370 | 984 | |
| 11-Jul-20 | 16,835 | 31,379 | 15,279 | 26,530 | 14,169 | 14,551 | 24,587 | 23,172 | 18,152 | 26,952 | 18,160 | 9,556 | 7,797 | 9,504 | 11,297 | 19,829 | 9,231 | 3,391 | 12,253 | 11,239 | 7,212 | 16,620 | 444 | |
| 12-Jul-20 | 18,170 | 32,221 | 15,306 | 26,654 | 14,690 | 14,754 | 25,137 | 23,172 | 19,190 | 26,998 | 18,282 | 9,640 | 7,797 | 9,520 | 11,747 | 20,051 | 9,322 | 3,492 | 12,493 | 11,335 | 7,366 | 16,910 | 154 | |
| 13-Jul-20 | 18,762 | 32,681 | 15,370 | 26,732 | 15,342 | 14,884 | 26,064 | 23,172 | 19,351 | 27,066 | 18,404 | 9,768 | 7,805 | 9,537 | 11,876 | 20,286 | 9,414 | 3,617 | 12,541 | 11,456 | 7,608 | 17,120 | 241 | |
| 14-Jul-20 | 19,355 | 32,911 | 15,406 | 26,840 | 15,783 | 15,043 | 26,661 | 23,172 | 19,513 | 27,294 | 18,465 | 9,895 | 7,915 | 9,587 | 12,005 | 20,493 | 9,482 | 3,693 | 12,589 | 11,560 | 7,868 | 17,280 | 260 | |
| 15-Jul-20 | 19,592 | 32,987 | 15,443 | 26,996 | 15,946 | 15,130 | 26,834 | 23,172 | 19,836 | 27,521 | 18,587 | 10,023 | 7,994 | 9,604 | 12,069 | 20,581 | 9,505 | 3,843 | 12,685 | 11,688 | 7,993 | 17,390 | 125 | |
| 16-Jul-20 | 19,786 | 33,148 | 15,452 | 27,058 | 16,027 | 15,159 | 26,944 | 23,172 | 20,043 | 27,544 | 18,587 | 10,108 | 8,018 | 9,604 | 12,101 | 20,655 | 9,550 | 3,843 | 13,022 | 11,726 | | 17,460 | | |
| 17-Jul-20 | 19,980 | 33,317 | 15,507 | 27,213 | 16,027 | 15,246 | 27,148 | 23,172 | 20,159 | 27,749 | 18,648 | 10,235 | 8,025 | 9,621 | 12,101 | 20,714 | 9,550 | 3,843 | 13,166 | 11,792 | | 17,540 | | |
| 18-Jul-20 | 20,023 | 33,508 | 15,534 | 27,476 | 16,092 | 15,304 | 27,227 | 23,283 | 20,228 | 27,863 | 18,648 | 10,362 | 8,120 | 9,704 | 12,165 | 20,788 | 9,550 | 3,944 | 13,166 | 11,864 | | 17,620 | | |
| 19-Jul-20 | 20,087 | 33,608 | 15,543 | 27,709 | 16,174 | 15,390 | 27,352 | 23,369 | 20,274 | 27,954 | 18,770 | 10,426 | 8,286 | 9,738 | 12,230 | 20,802 | 9,573 | 4,070 | 13,214 | 11,907 | | 17,690 | | |
| 20-Jul-20 | 20,163 | 33,654 | 15,580 | 27,926 | 16,223 | 15,434 | 27,384 | 23,542 | 20,297 | 28,022 | 18,770 | 10,490 | 8,609 | 9,755 | 12,262 | 20,817 | 9,573 | 4,120 | 13,406 | 11,979 | | 17,760 | | |
| 21-Jul-20 | 20,173 | 33,654 | 15,607 | 28,082 | 16,272 | 15,506 | 27,478 | 23,862 | 20,343 | 28,159 | 18,953 | 10,554 | 9,082 | 9,771 | 12,294 | 20,832 | 9,596 | 4,170 | 13,502 | 12,052 | | 17,840 | | |
| 22-Jul-20 | 20,173 | 33,654 | 15,625 | 28,159 | 16,288 | 15,506 | 27,525 | 24,257 | 20,389 | 28,318 | 19,014 | 10,596 | 9,184 | 9,805 | 12,455 | 20,847 | 9,642 | 4,170 | 13,598 | 12,074 | | 17,900 | | |
| 23-Jul-20 | 20,249 | 33,654 | 15,671 | 28,268 | 16,304 | 15,622 | 27,525 | 24,700 | 20,412 | 28,432 | 19,014 | 10,660 | 9,271 | 9,838 | 12,584 | 20,935 | 9,687 | 4,220 | 13,935 | 12,114 | | 17,980 | | |
| 24-Jul-20 | 20,335 | 33,700 | 15,680 | | | | | | | | | | | | | | | | | | | | | |

Cumulative Nass Adult Chinook Run Size to Gitwinksihlkw 2020 vs 94-19 Mean, Minimum and Maximum returns (before up river harvests)



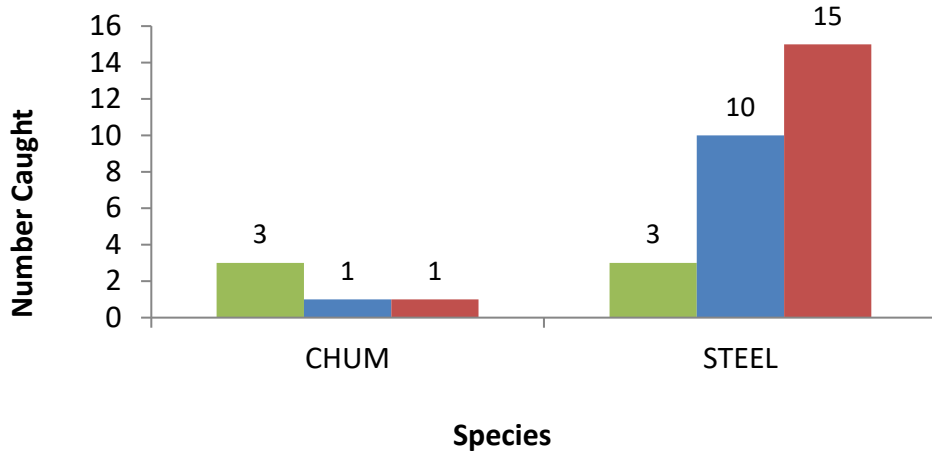
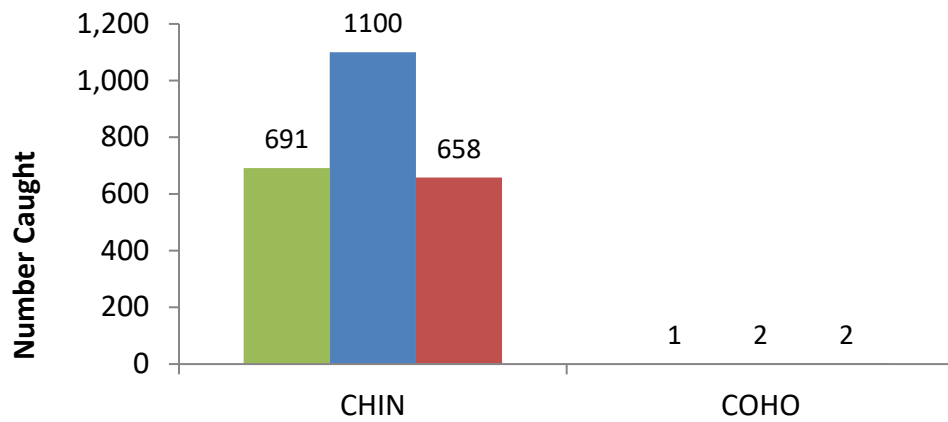
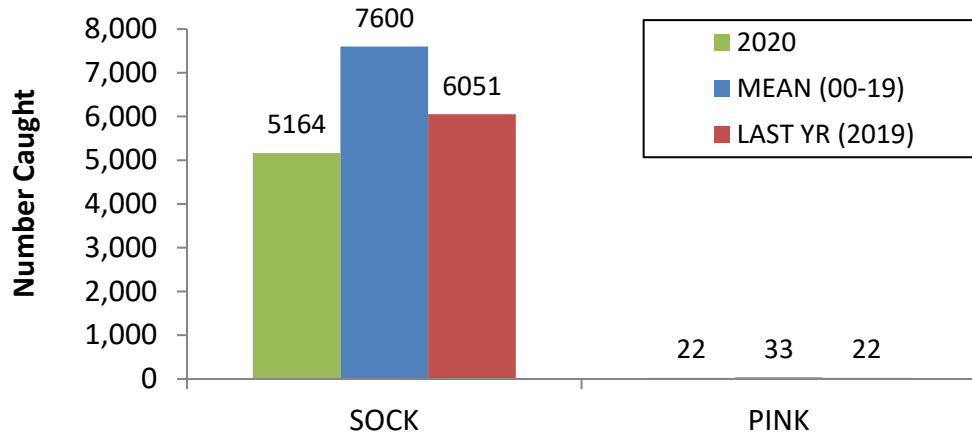
| Cumulative Daily Run Sizes of Adult Nass River Coho Salmon (≥ 40 cm NFL) to Gitwinksihkw Fishwheels, 2000-2020. | | | | | | | | | | | | | | | | | | | | | In-season 2020 | Mean Cum (94-19) | Daily 2020 |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|--------|--------|---------|--------|--------|---------|--------|--------|--------|-------------------|---------------------|---------------|
| Date | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | | | |
| 8-Jul-20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 31 | 21 | 0 | 0 | 0 | 0 | 2 |
| 9-Jul-20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 31 | 21 | 0 | 0 | 0 | 0 | 2 |
| 10-Jul-20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 62 | 21 | 0 | 0 | 0 | 0 | 3 |
| 11-Jul-20 | 0 | 0 | 0 | 0 | 0 | 19 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 | 0 | 0 | 62 | 21 | 0 | 0 | 0 | 0 | 10 |
| 12-Jul-20 | 0 | 0 | 0 | 32 | 0 | 39 | 0 | 0 | 16 | 32 | 0 | 0 | 0 | 30 | 0 | 0 | 62 | 42 | 0 | 0 | 0 | 0 | 10 |
| 13-Jul-20 | 0 | 0 | 0 | 32 | 16 | 39 | 0 | 0 | 33 | 32 | 0 | 0 | 0 | 30 | 0 | 0 | 92 | 42 | 0 | 19 | 0 | 0 | 10 |
| 14-Jul-20 | 0 | 0 | 33 | 63 | 16 | 39 | 0 | 0 | 33 | 64 | 0 | 0 | 0 | 119 | 0 | 0 | 123 | 42 | 0 | 19 | 0 | 0 | 13 |
| 15-Jul-20 | 0 | 0 | 33 | 127 | 32 | 39 | 29 | 0 | 49 | 64 | 47 | 0 | 0 | 119 | 0 | 23 | 154 | 84 | 39 | 19 | 0 | 0 | 13 |
| 16-Jul-20 | 0 | 0 | 33 | 190 | 65 | 39 | 29 | 0 | 66 | 64 | 71 | 0 | 0 | 238 | 0 | 45 | 246 | 105 | 39 | 19 | 0 | 0 | 30 |
| 17-Jul-20 | 0 | 0 | 66 | 190 | 113 | 96 | 72 | 0 | 99 | 159 | 95 | 0 | 0 | 565 | 19 | 113 | 370 | 189 | 39 | 19 | 0 | 0 | 50 |
| 18-Jul-20 | 25 | 0 | 66 | 190 | 161 | 116 | 173 | 0 | 99 | 222 | 142 | 239 | 26 | 891 | 37 | 227 | 585 | 231 | 39 | 19 | 0 | 0 | 90 |
| 19-Jul-20 | 51 | 0 | 66 | 317 | 210 | 154 | 288 | 0 | 165 | 318 | 284 | 342 | 38 | 1,337 | 74 | 294 | 739 | 357 | 39 | 57 | 0 | 0 | 100 |
| 20-Jul-20 | 51 | 0 | 66 | 412 | 403 | 193 | 447 | 25 | 329 | 477 | 332 | 512 | 64 | 1,723 | 148 | 317 | 1,016 | 588 | 116 | 113 | 0 | 0 | 200 |
| 21-Jul-20 | 101 | 0 | 265 | 508 | 500 | 193 | 562 | 25 | 379 | 699 | 474 | 649 | 103 | 2,110 | 333 | 385 | 1,416 | 945 | 154 | 170 | 0 | 0 | 300 |
| 22-Jul-20 | 127 | 0 | 563 | 698 | 629 | 251 | 634 | 25 | 461 | 1,048 | 616 | 820 | 115 | 2,912 | 500 | 521 | 2,002 | 1,366 | 309 | 264 | 0 | 0 | 400 |
| 23-Jul-20 | 152 | 0 | 629 | 1,301 | 742 | 771 | 778 | 25 | 692 | 1,557 | 711 | 1,195 | 205 | 3,536 | 870 | 634 | 2,340 | 1,660 | 309 | 434 | 0 | 0 | 500 |
| 24-Jul-20 | 202 | 0 | 795 | 1,777 | 1,161 | 1,041 | 908 | 99 | 972 | 2,065 | 876 | 1,400 | 231 | 4,398 | 1,314 | 702 | 3,264 | 1,849 | 463 | 585 | 0 | 0 | 700 |
| 25-Jul-20 | 228 | 49 | 894 | 2,411 | 1,629 | 1,368 | 1,124 | 669 | 1,334 | 2,383 | 1,066 | 1,571 | 384 | 5,259 | 1,684 | 997 | 3,849 | 2,437 | 733 | 830 | 0 | 0 | 1,200 |
| 26-Jul-20 | 329 | 81 | 1,060 | 2,982 | 2,000 | 1,657 | 1,427 | 818 | 1,647 | 3,145 | 1,350 | 1,912 | 449 | 6,091 | 2,332 | 1,404 | 4,742 | 2,920 | 1,081 | 1,132 | 0 | 0 | 1,500 |
| 27-Jul-20 | 405 | 146 | 1,226 | 3,427 | 2,807 | 1,869 | 1,657 | 1,065 | 2,009 | 4,670 | 1,918 | 2,356 | 564 | 7,102 | 2,924 | 1,654 | 5,327 | 3,635 | 1,312 | 1,396 | 0 | 0 | 1,900 |
| 28-Jul-20 | 658 | 211 | 1,755 | 4,347 | 3,404 | 2,197 | 2,118 | 1,462 | 2,503 | 6,259 | 2,416 | 2,698 | 730 | 8,439 | 4,183 | 2,084 | 6,651 | 3,971 | 2,007 | 1,717 | 0 | 0 | 2,500 |
| 29-Jul-20 | 759 | 454 | 2,451 | 5,172 | 3,968 | 2,525 | 2,997 | 1,635 | 2,767 | 7,816 | 3,363 | 3,074 | 987 | 10,014 | 5,275 | 2,311 | 7,914 | 5,484 | 2,741 | 2,170 | 0 | 0 | 3,000 |
| 30-Jul-20 | 1,088 | 908 | 3,875 | 6,123 | 4,662 | 2,737 | 3,703 | 2,478 | 3,508 | 8,673 | 4,216 | 4,098 | 1,333 | 11,707 | 6,219 | 2,945 | 9,392 | 6,513 | 2,856 | 2,698 | 0 | 0 | 3,700 |
| 31-Jul-20 | 1,493 | 1,557 | 4,736 | 7,361 | 5,711 | 3,373 | 4,640 | 2,998 | 4,249 | 10,897 | 6,111 | 5,225 | 1,833 | 14,144 | 7,477 | 3,285 | 11,578 | 8,068 | 4,014 | 3,396 | 0 | 0 | 4,700 |
| 1-Aug-20 | 2,100 | 2,432 | 5,664 | 8,122 | 6,904 | 4,221 | 5,879 | 3,791 | 5,188 | 12,708 | 7,437 | 6,352 | 2,755 | 15,957 | 9,513 | 3,624 | 13,426 | 11,640 | 5,134 | 4,585 | 0 | 0 | 5,800 |
| 2-Aug-20 | 2,733 | 3,713 | 6,790 | 9,233 | 7,840 | 4,741 | 7,537 | 4,683 | 5,912 | 15,155 | 9,877 | 8,708 | 3,742 | 18,512 | 12,289 | 4,213 | 15,920 | 15,065 | 6,137 | 5,622 | 0 | 0 | 7,100 |
| 3-Aug-20 | 5,365 | 4,945 | 8,678 | 11,295 | 8,421 | 5,338 | 8,891 | 5,426 | 7,049 | 23,225 | 13,074 | 10,587 | 4,793 | 23,415 | 17,675 | 5,391 | 18,537 | 18,678 | 6,330 | 6,604 | 0 | 0 | 8,900 |
| 4-Aug-20 | 12,830 | 6,275 | 11,394 | 13,104 | 9,824 | 5,705 | 10,606 | 6,169 | 8,762 | 30,310 | 16,461 | 12,328 | 5,754 | 27,872 | 22,135 | 7,000 | 20,231 | 23,742 | 8,376 | 7,453 | 0 | 0 | 11,100 |
| 5-Aug-20 | 16,778 | 7,459 | 13,315 | 14,309 | 11,308 | 6,379 | 12,047 | 7,433 | 11,298 | 40,159 | 20,061 | 13,285 | 6,831 | 32,924 | 24,985 | 7,702 | 23,803 | 28,595 | 10,537 | 8,566 | 0 | 0 | 13,200 |
| 6-Aug-20 | 20,296 | 8,237 | 14,607 | 16,879 | 13,776 | 6,957 | 13,949 | 8,399 | 13,982 | 46,989 | 23,330 | 14,275 | 8,676 | 35,954 | 28,076 | 8,630 | 29,069 | 31,285 | 13,008 | 9,773 | 0 | 0 | 15,300 |
| 7-Aug-20 | 26,218 | 9,761 | 15,865 | 19,290 | 14,373 | 8,210 | 15,505 | 9,192 | 16,897 | 53,280 | 26,006 | 15,641 | 11,201 | 38,956 | 30,704 | 9,423 | 32,363 | 34,037 | 15,015 | 11,434 | 0 | 0 | 17,300 |
| 8-Aug-20 | 30,520 | 12,809 | 17,886 | 21,892 | 16,922 | 9,540 | 16,990 | 10,282 | 19,137 | 57,093 | 28,588 | 16,632 | 14,405 | 42,818 | 33,295 | 10,443 | 35,843 | 36,306 | 16,868 | 13,132 | 0 | 0 | 19,400 |
| 9-Aug-20 | 33,202 | 17,285 | 18,648 | 24,272 | 20,261 | 11,236 | 18,820 | 11,620 | 22,069 | 60,301 | 33,348 | 17,485 | 16,814 | 46,860 | 35,349 | 11,598 | 39,076 | 39,038 | 19,029 | 13,943 | 0 | 0 | 21,600 |
| 10-Aug-20 | 36,745 | 20,998 | 20,238 | 26,461 | 23,262 | 12,835 | 21,024 | 12,883 | 24,589 | 63,606 | 36,546 | 18,305 | 18,916 | 52,565 | 37,552 | 12,459 | 43,818 | 42,946 | 20,033 | 16,283 | 0 | 0 | 24,000 |
| 11-Aug-20 | 39,301 | 24,370 | 23,715 | 29,538 | 26,133 | 14,839 | 22,538 | 14,692 | 28,591 | 66,910 | 40,075 | 18,988 | 24,183 | 57,111 | 38,403 | 13,184 | 48,684 | 45,866 | 22,156 | 18,245 | 0 | 0 | 27,000 |
| 12-Aug-20 | 41,047 | 29,689 | 28,021 | 32,553 | 27,537 | 16,593 | 24,411 | 16,699 | 31,802 | 69,166 | 43,533 | 19,910 | 29,232 | 62,192 | 39,810 | 13,523 | 52,348 | 48,156 | 24,510 | 20,226 | 0 | 0 | 29,800 |
| 13-Aug-20 | 42,363 | 35,331 | 31,797 | 34,837 | 30,037 | 18,597 | 26,803 | 18,929 | 33,680 | 74,249 | 47,322 | 20,969 | 32,308 | 64,480 | 41,549 | 14,180 | 57,152 | 51,350 | 27,521 | 21,999 | 0 | 0 | 32,400 |
| 14-Aug-20 | 43,452 | 38,963 | 35,142 | 38,327 | 32,957 | 21,970 | 29,195 | 20,737 | 34,684 | 78,538 | 51,538 | 21,754 | 35,666 | 67,689 | 45,029 | 15,630 | 61,863 | 53,808 | 29,335 | 23,697 | 0 | 0 | 35,000 |
| 15-Aug-20 | 44,287 | 43,503 | 42,429 | 41,373 | 35,441 | 26,114 | 32,668 | 22,447 | 35,771 | 83,780 | 54,215 | 22,847 | 38,280 | 70,928 | 50,544 | 17,963 | 67,036 | 56,813 | 32,616 | 25,547 | 0 | 0 | 37,900 |
| 16-Aug-20 | 45,071 | 47,168 | 52,598 | 44,958 | 37,344 | 27,944 | 35,593 | 24,553 | 37,912 | 89,976 | 56,891 | 23,120 | 41,035 | 73,276 | 56,818 | 20,047 | 70,300 | 59,607 | 35,009 | 27,433 | 0 | 0 | 40,800 |
| 17-Aug-20 | 45,982 | 49,778 | 60,150 | 46,957 | 39,248 | 32,589 | 37,582 | 25,643 | 39,279 | 96,393 | 61,320 | 24,384 | 42,676 | 76,782 | 62,814 | 21,814 | 77,537 | 61,351 | 35,820 | 29,395 | 0 | 0 | 43,600 |
| 18-Aug-20 | 47,323 | 52,243 | 66,641 | 49,114 | 40,764 | 36,867 | 39,498 | 26,931 | 41,832 | 102,938 | 64,778 | 26,125 | 44,662 | 79,664 | 66,738 | 22,811 | 82,925 | 61,897 | 36,939 | 30,301 | 0 | 0 | 46,100 |
| 19-Aug-20 | 48,589 | 55,486 | 71,842 | 51,843 | 42,716 | 41,242 | 41,905 | 27,625 | 44,697 | 108,308 | 68,141 | 27,252 | 46,610 | 81,417 | 72,994 | 23,604 | 87,729 | 62,738 | 38,367 | 30,773 | 0 | 0 | 48,500 |
| 20-Aug-20 | 49,525 | 57,594 | 76,015 | 54,952 | 45,588 | 42,822 | 44,427 | 29,607 | 47,629 | 113,073 | 71,173 | 28,106 | 48,366 | 83,884 | 78,065 | 24,283 | 91,455 | 64,628 | 40,452 | 31,810 | 0 | 0 | 50,900 |
| 21-Aug-20 | 49,981 | 58,988 | 79,592 | 58,125 | 48,637 | 43,497 | 46,386 | 31,540 | 51,153 | 117,553 | 72,689 | 28,721 | 50,006 | 89,203 | 81,452 | 25,710 | 94,596 | 67,633 | 42,227 | 32,188 | 0 | 0 | 53,100 |
| 22-Aug-20 | 50,132 | 60,237 | 80,652 | 60,536 | 51,121 | 45,520 | 47,712 | 33,299 | 57,922 | 123,907 | 73,399 | 28,721 | 52,133 | 92,441 | 84,098 | 27,545 | 100,077 | 72,150 | 44,389 | 32,188 | 0 | 0 | 55,300 |
| 23-Aug-20 | 50,132 | 62,426 | 82,606 | 62,757 | 52,186 | 51,745 | 48,519 | 34,736 | 61,644 | 129,594 | 73,968 | 28,721 | 53,915 | 96,483 | 86,800 | 29,108 | 103,495 | 73,726 | 45,508 | 32,999 | 0 | 0 | 57,300 |
| 24-Aug-20 | 50,487 | 63,820 | 83,931 | 65,232 | 53,363 | 57,527 | 49,052 | 36,123 | 64,444 | 136,044 | 74,773 | 29,131 | 55,094 | 100,108 | 89,373 | 30,467 | 107,806 | 75,869 | 47,245 | 35,320 | 0 | 0 | 59,400 |
| 25-Aug-20 | 51,550 | 65,506 | 87,608 | 66,914 | 54,170 | 60,977 | 49,686 | 36,991 | 64,741 | 140,682 | 76,241 | 30,599 | 56,260 | 103,106 | 91,316 | 32,143 | 111,440 | 79,924 | 48,596 | 39,791 | 0 | 0 | 61,400 |
| 26-Aug-20 | 51,980 | 67,112 | 94,431 | 68,817 | 54,734 | 63,848 | 50,248 | 38,229 | 65,613 | 149,388 | 77,189 | 33,980 | 57,016 | 105,605 | 93,796 | 33,503 | 113,257 | 82,824 | 49,985 | 45,546 | 0 | 0 | 63,500 |
| 27-Aug-20 | 52,638 | 67,112 | 98,041 | 69,928 | 55,363 | 68,377 | 50,767 | 39,468 | 68,413 | 155,932 | 77,970 | 37,942 | 57,862 | 107,536 | 95,536 | 34,930 | 114,673 | 85,429 | 50,680 | 54,187 | 0 | 0 | 65,600 |
| 28-Aug-20 | 54,080 | 67,339 | 99,134 | 70,975 | 55,863 | 72,771 | 51,171 | 40,781 | 72,086 | 161,079 | 78,515 | 42,894 | 58,554 | 110,092 | 97,738 | 35,632 | 117,167 | 90,093 | 51,414 | 58,904 | 0 | 0 | 67,400 |
| 29-Aug-20 | 58,129 | 70,079 | 99,962 | 72,434 | 56,718 | 75,431 | 51,603 | 41,450 | 74,523 | 166,925 | 79,155 | 46,138 | 59,323 | 112,350 | 9 | | | | | | | | |

| Nass Summer-run Steelhead Cumulative Daily Run Size Estimates to Gitwinksihkw Fishwheels, 2000-2020. | | | | | | | | | | | | | | | | | | | | IN-SEASON | Mean Cum | Daily | | |
|--|-------|-------|-------|--------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|--------|-------|--------|-------|--------|-----------|----------|---------|------|-------|
| Date | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | (94-19) | 2020 | |
| 1-Jul-20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2-Jul-20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3-Jul-20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 24 | 0 | 0 | 0 | 0 | 0 | 51 | 0 | 0 | 0 | 0 | 0 |
| 4-Jul-20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 115 | 47 | 0 | 0 | 0 | 0 | 0 | 51 | 0 | 0 | 0 | 0 | 10 |
| 5-Jul-20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 115 | 47 | 0 | 0 | 0 | 0 | 0 | 51 | 0 | 0 | 0 | 0 | 10 |
| 6-Jul-20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 115 | 47 | 0 | 0 | 0 | 0 | 0 | 51 | 0 | 0 | 0 | 0 | 10 |
| 7-Jul-20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 115 | 71 | 0 | 32 | 38 | 48 | 0 | 51 | 0 | 0 | 0 | 0 | 20 |
| 8-Jul-20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 66 | 0 | 0 | 0 | 115 | 71 | 0 | 32 | 38 | 48 | 0 | 51 | 0 | 0 | 0 | 0 | 20 |
| 9-Jul-20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 66 | 0 | 0 | 0 | 115 | 71 | 0 | 32 | 38 | 143 | 0 | 101 | 0 | 0 | 0 | 0 | 30 |
| 10-Jul-20 | 31 | 0 | 0 | 0 | 0 | 0 | 0 | 99 | 0 | 0 | 0 | 115 | 71 | 0 | 32 | 38 | 191 | 0 | 101 | 0 | 0 | 0 | 0 | 30 |
| 11-Jul-20 | 31 | 0 | 0 | 0 | 0 | 0 | 0 | 99 | 0 | 0 | 0 | 115 | 71 | 0 | 32 | 38 | 238 | 0 | 152 | 0 | 12 | 40 | 12 | 40 |
| 12-Jul-20 | 31 | 0 | 0 | 0 | 0 | 0 | 0 | 99 | 0 | 0 | 0 | 115 | 71 | 0 | 63 | 38 | 238 | 0 | 152 | 0 | 12 | 40 | 0 | 0 |
| 13-Jul-20 | 31 | 0 | 0 | 0 | 0 | 0 | 0 | 99 | 0 | 0 | 0 | 115 | 71 | 0 | 95 | 77 | 238 | 0 | 152 | 0 | 12 | 50 | 0 | 0 |
| 14-Jul-20 | 31 | 28 | 0 | 0 | 0 | 41 | 0 | 99 | 0 | 0 | 0 | 115 | 71 | 0 | 158 | 115 | 238 | 0 | 253 | 85 | 12 | 100 | 0 | 0 |
| 15-Jul-20 | 31 | 28 | 0 | 0 | 0 | 41 | 0 | 99 | 0 | 0 | 0 | 115 | 71 | 0 | 189 | 115 | 238 | 0 | 304 | 85 | 12 | 100 | 0 | 0 |
| 16-Jul-20 | 61 | 28 | 0 | 0 | 0 | 41 | 29 | 99 | 0 | 0 | 76 | 173 | 71 | 0 | 189 | 153 | 238 | 0 | 304 | 85 | | | | 100 |
| 17-Jul-20 | 154 | 56 | 51 | 0 | 0 | 41 | 29 | 99 | 0 | 0 | 76 | 173 | 71 | 0 | 189 | 230 | 238 | 0 | 405 | 85 | | | | 100 |
| 18-Jul-20 | 154 | 56 | 51 | 0 | 0 | 82 | 29 | 132 | 81 | 0 | 76 | 288 | 71 | 0 | 221 | 345 | 238 | 0 | 507 | 85 | | | | 100 |
| 19-Jul-20 | 154 | 56 | 51 | 0 | 17 | 82 | 29 | 132 | 122 | 0 | 152 | 403 | 71 | 0 | 221 | 345 | 238 | 0 | 557 | 85 | | | | 100 |
| 20-Jul-20 | 154 | 56 | 51 | 0 | 34 | 82 | 29 | 132 | 122 | 0 | 152 | 460 | 71 | 0 | 221 | 383 | 238 | 29 | 659 | 85 | | | | 100 |
| 21-Jul-20 | 154 | 56 | 51 | 0 | 51 | 82 | 58 | 132 | 122 | 0 | 303 | 460 | 71 | 0 | 252 | 383 | 238 | 57 | 1,115 | 85 | | | | 200 |
| 22-Jul-20 | 154 | 56 | 51 | 59 | 51 | 164 | 58 | 132 | 162 | 0 | 455 | 460 | 95 | 52 | 347 | 383 | 381 | 57 | 1,368 | 85 | | | | 200 |
| 23-Jul-20 | 184 | 56 | 103 | 59 | 51 | 246 | 58 | 132 | 244 | 51 | 531 | 633 | 95 | 104 | 568 | 383 | 381 | 57 | 1,926 | 85 | | | | 300 |
| 24-Jul-20 | 307 | 56 | 154 | 176 | 68 | 246 | 58 | 132 | 325 | 102 | 683 | 748 | 142 | 157 | 694 | 421 | 572 | 57 | 2,382 | 113 | | | | 300 |
| 25-Jul-20 | 307 | 83 | 206 | 411 | 68 | 287 | 88 | 132 | 487 | 102 | 683 | 863 | 166 | 261 | 884 | 421 | 619 | 114 | 2,483 | 113 | | | | 400 |
| 26-Jul-20 | 369 | 111 | 206 | 764 | 85 | 287 | 88 | 132 | 609 | 203 | 834 | 863 | 213 | 261 | 1,041 | 536 | 858 | 200 | 3,193 | 141 | | | | 500 |
| 27-Jul-20 | 369 | 167 | 257 | 823 | 169 | 328 | 88 | 132 | 731 | 305 | 1,062 | 1,093 | 237 | 313 | 1,199 | 575 | 1,668 | 257 | 3,852 | 141 | | | | 600 |
| 28-Jul-20 | 430 | 195 | 360 | 1,058 | 186 | 328 | 88 | 132 | 893 | 457 | 1,290 | 1,266 | 261 | 418 | 1,326 | 728 | 2,478 | 286 | 4,054 | 141 | | | | 700 |
| 29-Jul-20 | 461 | 278 | 565 | 1,352 | 254 | 328 | 146 | 132 | 974 | 660 | 1,365 | 1,381 | 261 | 679 | 1,420 | 766 | 3,145 | 286 | 4,308 | 141 | | | | 800 |
| 30-Jul-20 | 522 | 306 | 925 | 1,646 | 271 | 328 | 175 | 132 | 1,218 | 711 | 1,441 | 1,381 | 356 | 783 | 1,452 | 920 | 3,526 | 343 | 4,358 | 226 | | | | 1,000 |
| 31-Jul-20 | 676 | 390 | 1,285 | 1,940 | 305 | 369 | 234 | 198 | 1,421 | 711 | 1,669 | 1,438 | 403 | 836 | 1,578 | 996 | 4,146 | 372 | 4,409 | 254 | | | | 1,100 |
| 1-Aug-20 | 738 | 445 | 1,593 | 2,116 | 423 | 574 | 234 | 232 | 1,543 | 711 | 1,896 | 1,496 | 545 | 836 | 1,799 | 1,035 | 4,574 | 458 | 4,510 | 367 | | | | 1,200 |
| 2-Aug-20 | 830 | 918 | 2,004 | 2,762 | 525 | 656 | 263 | 232 | 1,746 | 711 | 2,124 | 1,553 | 711 | 836 | 2,241 | 1,035 | 5,623 | 658 | 4,713 | 509 | | | | 1,400 |
| 3-Aug-20 | 1,199 | 1,057 | 2,107 | 2,880 | 609 | 697 | 292 | 265 | 1,949 | 914 | 2,427 | 1,726 | 924 | 836 | 2,903 | 1,149 | 6,385 | 829 | 4,814 | 565 | | | | 1,500 |
| 4-Aug-20 | 1,813 | 1,197 | 2,313 | 3,056 | 745 | 697 | 322 | 364 | 1,989 | 1,321 | 2,427 | 1,841 | 1,090 | 836 | 3,156 | 1,494 | 7,052 | 972 | 5,423 | 593 | | | | 1,700 |
| 5-Aug-20 | 2,428 | 1,197 | 2,724 | 3,409 | 846 | 738 | 380 | 430 | 2,355 | 1,727 | 2,731 | 1,956 | 1,161 | 836 | 3,503 | 1,724 | 7,481 | 1,144 | 5,879 | 593 | | | | 1,900 |
| 6-Aug-20 | 2,735 | 1,224 | 2,827 | 3,585 | 931 | 861 | 556 | 562 | 2,476 | 1,879 | 2,807 | 2,014 | 1,327 | 888 | 3,977 | 1,916 | 8,625 | 1,201 | 6,943 | 593 | | | | 2,100 |
| 7-Aug-20 | 3,135 | 1,336 | 2,878 | 3,879 | 948 | 902 | 702 | 629 | 2,720 | 2,692 | 2,958 | 2,129 | 1,517 | 888 | 4,229 | 2,184 | 9,578 | 1,287 | 8,109 | 622 | | | | 2,400 |
| 8-Aug-20 | 3,381 | 1,558 | 3,135 | 4,232 | 1,049 | 1,066 | 789 | 662 | 2,842 | 3,200 | 2,958 | 2,531 | 1,849 | 992 | 4,545 | 2,529 | 9,911 | 1,430 | 9,122 | 622 | | | | 2,600 |
| 9-Aug-20 | 4,088 | 2,087 | 3,289 | 4,820 | 1,100 | 1,147 | 819 | 728 | 2,923 | 4,064 | 3,338 | 2,762 | 2,015 | 1,201 | 4,734 | 2,759 | 9,911 | 1,459 | 10,288 | 622 | | | | 2,800 |
| 10-Aug-20 | 4,610 | 2,282 | 3,289 | 5,407 | 1,371 | 1,229 | 936 | 827 | 3,004 | 4,521 | 3,793 | 2,992 | 2,275 | 1,410 | 5,144 | 2,950 | 10,340 | 1,659 | 10,643 | 706 | | | | 3,100 |
| 11-Aug-20 | 5,286 | 2,588 | 3,341 | 5,995 | 1,557 | 1,270 | 994 | 893 | 3,166 | 4,673 | 4,399 | 3,510 | 2,631 | 1,515 | 5,207 | 3,142 | 10,864 | 1,716 | 10,845 | 961 | | | | 3,300 |
| 12-Aug-20 | 5,655 | 3,033 | 3,546 | 6,465 | 1,659 | 1,352 | 1,082 | 1,092 | 3,248 | 4,673 | 4,627 | 3,797 | 3,200 | 1,619 | 5,302 | 3,257 | 11,103 | 1,859 | 11,251 | 989 | | | | 3,500 |
| 13-Aug-20 | 5,963 | 3,311 | 3,803 | 6,877 | 1,794 | 1,475 | 1,199 | 1,224 | 3,329 | 5,689 | 4,855 | 4,027 | 3,460 | 1,724 | 5,460 | 3,257 | 11,579 | 2,288 | 12,568 | 1,074 | | | | 3,800 |
| 14-Aug-20 | 6,331 | 3,423 | 3,906 | 7,406 | 2,099 | 1,598 | 1,257 | 1,323 | 3,329 | 6,654 | 5,765 | 4,315 | 3,934 | 1,724 | 5,681 | 3,525 | 12,103 | 2,345 | 13,075 | 1,187 | | | | 4,000 |
| 15-Aug-20 | 6,608 | 3,701 | 3,906 | 7,700 | 2,302 | 1,598 | 1,316 | 1,522 | 3,410 | 7,467 | 6,144 | 4,488 | 4,622 | 1,724 | 5,965 | 3,640 | 12,866 | 2,517 | 13,785 | 1,215 | | | | 4,300 |
| 16-Aug-20 | 6,946 | 3,896 | 4,317 | 7,935 | 2,336 | 1,639 | 1,403 | 1,820 | 3,532 | 7,873 | 6,751 | 4,545 | 5,120 | 1,776 | 6,186 | 3,985 | 13,104 | 3,003 | 14,595 | 1,271 | | | | 4,500 |
| 17-Aug-20 | 7,100 | 4,257 | 5,088 | 8,405 | 2,471 | 1,639 | 1,550 | 2,051 | 3,694 | 8,533 | 7,130 | 4,545 | 5,594 | 1,828 | 6,470 | 4,636 | 13,580 | 3,117 | 15,710 | 1,384 | | | | 4,800 |
| 18-Aug-20 | 7,315 | 4,369 | 5,705 | 8,522 | 2,589 | 1,926 | 1,667 | 2,183 | 3,816 | 9,651 | 7,358 | 4,545 | 5,996 | 2,089 | 6,817 | 4,943 | 13,962 | 3,117 | 17,281 | 1,441 | | | | 5,100 |
| 19-Aug-20 | 7,499 | 4,703 | 6,013 | 8,640 | 2,657 | 1,967 | 1,900 | 2,250 | 4,222 | 10,159 | 7,509 | 4,660 | 6,518 | 2,089 | 7,322 | 5,173 | 14,819 | 3,117 | 17,991 | 1,441 | | | | 5,400 |
| 20-Aug-20 | 7,807 | 4,897 | 6,270 | 9,169 | 2,742 | 1,967 | 2,076 | 2,283 | 4,912 | 10,464 | 7,661 | 4,775 | 6,850 | 2,194 | 7,606 | 5,249 | 15,343 | 3,146 | 19,106 | 1,441 | | | | 5,600 |
| 21-Aug-20 | 8,022 | 5,287 | 6,733 | 9,815 | 2,843 | 1,967 | 2,339 | 2,448 | 5,237 | 10,565 | 8,040 | 4,775 | 7,229 | 2,194 | 8,395 | 5,747 | 15,439 | 3,289 | 19,410 | 1,441 | | | | 5,900 |
| 22-Aug-20 | 8,052 | 5,565 | 7,041 | 10,286 | 3,046 | 1,967 | 2,456 | 2,514 | 6,008 | 11,276 | 8,344 | 4,775 | 7,513 | 2,455 | 9,058 | 6,705 | 15,677 | 3,575 | 19,765 | 1,441 | | | | 6,200 |
| 23-Aug-20 | 8,052 | 5,704 | 7,195 | 10,580 | 3,165 | 2,377 | 2,631 | 2,713 | 6,658 | 12,292 | 8,420 | 4,775 | 7,798 | 2,820 | 10,131 | 7,203 | 16,106 | 3,661 | 19,815 | 1,497 | | | | 6,500 |
| 24-Aug-20 | 8,052 | 6,205 | 7,195 | 11,344 | 3,216 | 2,828 | 2,865 | 2,845 | 7,429 | 12,648 | 8,875 | 4,890 | 8,082 | 3,238 | 11,298 | 7,586 | 16,630 | 3,889 | 20,069 | 1,526 | | | | 6,800 |
| 25-Aug-20 | 8,175 | 6,567 | 7,247 | 11,873 | 3,266 | 3,197 | 3,011 | 3,011 | 7,429 | 13,308 | 9,178 | 5,063 | 8,343 | 3,343 | 12,024 | 7,970 | 16,964 | 4,290 | 20,424 | 1,639 | | | | 7,100 |
| 26-Aug-20 | 8,206 | 6,957 | 7,658 | 12,166 | 3,419 | 3,320 | 3,099 | 3,143 | 7,429 | 13,664 | 9,482 | 5,178 | 8,485 | 3,447 | 13,066 | 8,813 | 17,059 | 4,547 | 20,829 | 1,949 | | | | 7,400 |

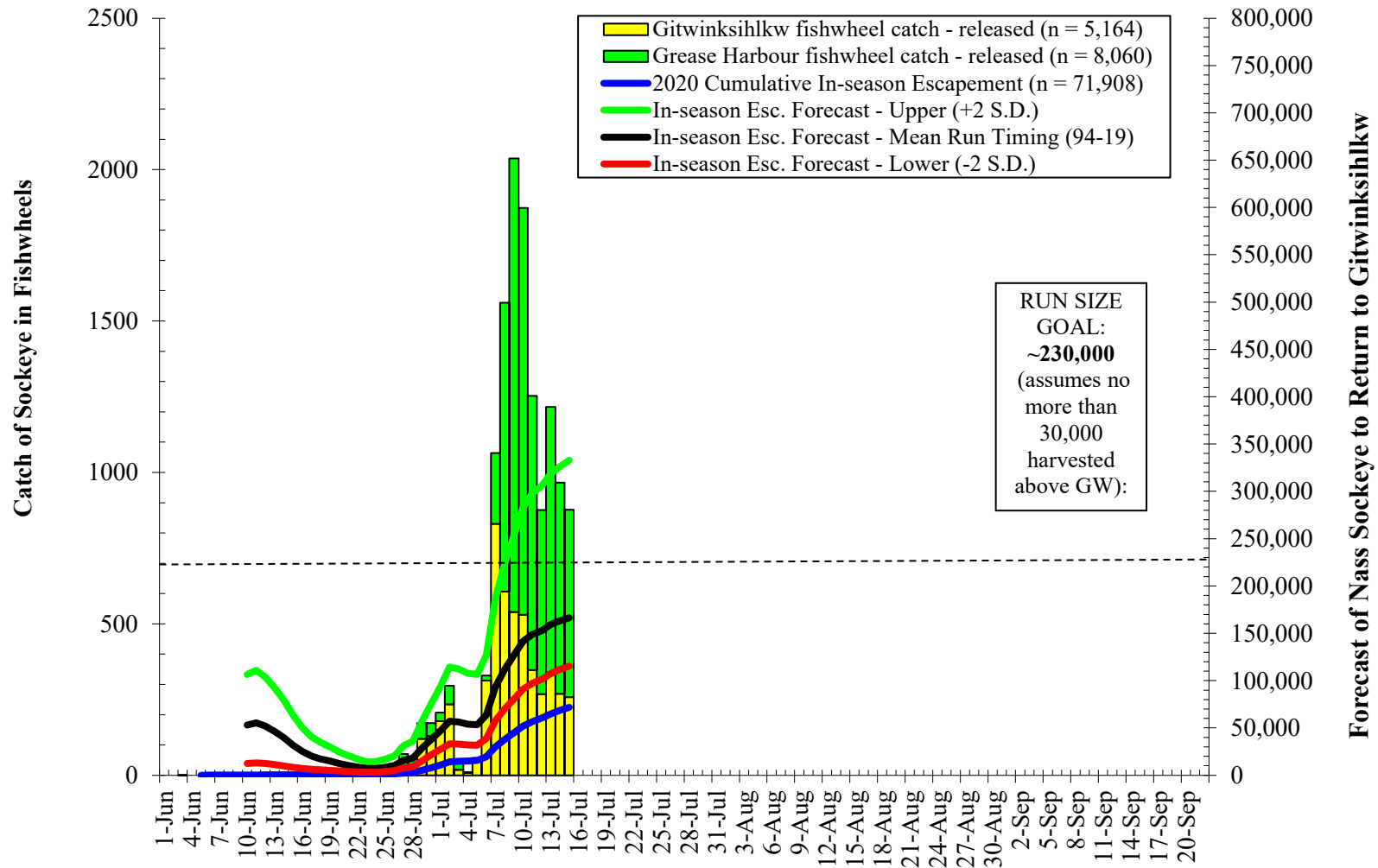
2020 Nass Fishwheel Catches

| | GW | | GW Total | GH | | | | GH Total | Grand Total |
|------------------------------|--------------|--------------|--------------|--------------|----------|--------------|--------------|--------------|---------------|
| Data | FW1 | FW2 | | FW3 | FW4 | FW5 | FW6 | | |
| Chin-adult catch | 145 | 546 | 691 | 383 | 0 | 659 | 456 | 1,498 | 2,189 |
| Chin-tagged | 130 | 504 | 634 | 348 | 0 | 606 | 403 | 1,357 | 1,991 |
| Chin-recaps | 12 | 13 | 25 | 39 | 0 | 76 | 87 | 202 | 227 |
| Chin-Jacks | 81 | 237 | 318 | 312 | 0 | 409 | 512 | 1233 | 1551 |
| Sum of CH Harv | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sockeye-adult catch | 1,554 | 3,610 | 5,164 | 1,649 | 0 | 4,229 | 2,182 | 8,060 | 13,224 |
| Sockeye-tagged | 1,009 | 2,105 | 3,114 | 0 | 0 | 0 | 0 | 0 | 3,114 |
| Sockeye-recaps | 120 | 65 | 185 | 41 | 0 | 110 | 58 | 209 | 394 |
| Sockeye_jacks | 168 | 724 | 892 | 75 | 0 | 138 | 108 | 321 | 1213 |
| Sum of sk_harvest_total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Coho-adult catch | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| Coho-tagged | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| Coho-recaps | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Coho-jack | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sum of co_harvest_total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Steel-adult catch | 1 | 2 | 3 | 0 | 0 | 0 | 1 | 1 | 4 |
| Steel-Adipose marked | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 2 |
| Steel-unmarked | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 2 |
| Steel-recap-total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pacific Lamprey-catch | 2 | 15 | 17 | 6 | 0 | 98 | 38 | 142 | 159 |
| Lamprey-tagged | 2 | 11 | 13 | 4 | 0 | 62 | 26 | 92 | 105 |
| Lamprey-released | 0 | 4 | 4 | 2 | 0 | 36 | 12 | 50 | 54 |
| Lamprey-recaps | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 2 |
| River Lamprey | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pink-adult-catch | 7 | 15 | 22 | 0 | 0 | 0 | 0 | 0 | 22 |
| Chum-adult-catch | 2 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 3 |
| Chum-tagged | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 2 |
| Chum-punched | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Chum-recaps | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Rainbow Trout | 9 | 17 | 26 | 11 | 0 | 13 | 18 | 42 | 68 |
| Whitefish | 2 | 5 | 7 | 1 | 0 | 4 | 5 | 10 | 17 |
| Cutthroat Trout | 4 | 4 | 8 | 0 | 0 | 0 | 3 | 3 | 11 |
| Dolly Varden | 0 | 9 | 9 | 0 | 0 | 0 | 1 | 1 | 10 |
| Dolly-tagged | 0 | 7 | 7 | 0 | 0 | 0 | 0 | 0 | 7 |
| Sculpin | 4 | 0 | 4 | 0 | 0 | 0 | 2 | 2 | 6 |
| Peamouth Chub | 0 | 1 | 1 | 1 | 0 | 1 | 3 | 5 | 6 |
| Suckers | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 2 |
| Redside Shiner | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 2 |
| Pikeminnow | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 2 |

Nass Fishwheel Catches 2020 - GW only (May 31 - July 15)



Nass Sockeye (≥ 45 cm NFL) Run Forecasts to Gitwinksihlkw Fishwheels 2020 (Mean Run timing - 1994-19)



Nass Chinook (≥ 50 cm NFL) Forecasts to Gitwinksihlkw Fishwheels 2020 (Mean Run timing - 1994-19)

