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## **2018 NASS RIVER SALMON STOCK ASSESSMENT UPDATE – MONDAY, 16 JULY**

The following is the fifth general public update for 2018 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 2018**

1. **Fishwheel Assessment data:** 1 June to 15 July. Data summary below.
2. **Meziadin Fishway data:** Operations began on June 30.
  - Water temperature is 16.0°C (98-17 mean=15.0°C).
  - Counts to date: 7,105 Sockeye (7,020 large (65 tagged) and 85 small) and 0 Chinook. The average (94-17) large counts for date: 20,000 Sockeye and 19 Chinook.
  - Projection to fishway based on counts and regression of in-season to final counts to date from 1994 to 2017 ( $r^2=0.58$ ): 145,000 large Sockeye (95% CI: 125,000, 165,000).
3. **Kwinageese Weir data:** Video-weir operations began on 6 July.
  - Water temperature is 12.0°C (98-16 mean=14.5°C).
  - Counts to date: 6 large Chinook (0 tags) and 10 Bull Trout. The average (09-17) large counts for date: 15 Chinook and 0 Sockeye.

#### **GITWINKSIHLKW (GW) FISHWHEELS (NASS TEST FISHERY –STARTED IN 1994 [25th year]):**

The Nass River test fishery fishwheels began operation on 1 June 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 at 1.7 m lower than average water levels (1.0 m vs. 2.6 m) based on 1994–2017 operations and are at record low water levels like the 1–17 June period (up to 2.4 m lower than historical averages). A chart of the water levels at the test fishery follows the text summary that compares current levels to historical levels. The Nass River water temperature is 1.1°C above average (10.9°C vs. 9.8°C) based on the 1994–2017 operations.

#### **GREASE HARBOUR (GH) FISHWHEELS:**

Start-up dates of the GH fishwheels were on 5 June (FW5), 6 June (FW6), 7 June (FW3), and 15 June (FW4) for operating four fishwheels at Grease Harbour (upstream of Ts'im Anwiihlist). The GH fishwheels are used for in-season mark-recapture tag recoveries, 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.

Of the 6,193 Sockeye caught at all fishwheels to date, all have been released. The Nass fishwheel catches are currently below average for Sockeye and Chinook, average for Coho, and above average for Pink, Chum, steelhead, and Pacific Lamprey. Weekly comparisons of salmon and steelhead catches at the fishwheels to historical levels since 1994 follow the text summary as well as a catch summary of all fish species to date. Total fishwheel catches of salmon, steelhead, and Pacific Lamprey to date are shown below including tagging results and jacks caught.

<b>FISHWHEEL CATCH SUMMARIES</b>	<b>SOCK</b>	<b>CHIN</b>	<b>COHO</b>	<b>STEEL</b>	<b>PINK-EVE</b>	<b>CHUM</b>	<b>LAMP</b>
FISHWHEEL TOTAL CATCH OF ADULTS	6,193	719	1	19	28	3	352
HISTORICAL AVG CUM CATCH (00-17) TO DATE	17,000	3,900	0	10	0	0	160
HISTORICAL AVG CUM TOTAL CATCH (00-17)	43,000	5,000	14,000	1,000	13,000	130	600
AVERAGE DAILY CATCH (5 D) OF ADULTS - GW	95	2	0	1	3	0	1
AVERAGE DAILY CATCH (5 D) OF ADULTS - GH	155	10	0	1	1	0	3
FISHWHEEL TOTAL TAGGED (OR ADIPOSE FIN MARKED)	1,861	671	1	12	16	1	299
FISHWHEEL TOTAL JACKS - GW ONLY	1,326	284	0	NA	NA	NA	NA
HISTORICAL MEAN JACKS AT GW (94-17) TO DATE	509	144	0	NA	NA	NA	NA

Other adult species and juvenile salmon catches at the fishwheels to date include: 68 Whitefish, 56 Rainbow Trout, 25 Peamouth Chub, 23 Pikeminnow, 21 Redside Shiner, 21 Dolly Varden, 13 Cutthroat Trout, 3 Seals, 1 Frog, and 37 salmon smolts (3 Coho, 3 Chinook, 31 Sockeye).

### **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 based on historical catch index and mark-recapture methods. The current run sizes for 2018 are currently below average for Nass Sockeye and Chinook, average for Coho, and above average for summer-run steelhead when compared to means to date from 1994 to 2017. Summer-run steelhead estimates began on 1 July and the run size target is based on a minimum return goal as steelhead will enter the Nass River after the fishwheels shutdown in mid-September.

	<b>SOCK</b>	<b>CHIN</b>	<b>COHO</b>	<b>STEEL</b>
<b>IN-SEASON RUN SIZE ESTIMATE TO DATE</b>	<b>88,690</b>	<b>7,932</b>	<b>27</b>	<b>253</b>
HISTORICAL MEAN RUN SIZE TO GW FOR DATE (94-17)	125,000	18,000	30	70
<b>RUN SIZE TARGET 2018 (MIN. FOR STEELHEAD)</b>	<b>250,000</b>	<b>15,000</b>	<b>65,000</b>	<b>4,200</b>

In-season forecast projections above Gitwinksihlkw are shown below. Estimates to Gitwinksihlkw are based on two methods, mean run timing and log-regression of the in-season to final estimates to date.

The current run size projection for Nass Sockeye is ranging between 146,000 and 343,000 to reach the run size goal (250,000) based on the in-season to final method with a point estimate of 244,000 based on 44% of the run entered to date based on mean-run timing. The current run size projection for Nass Chinook is ranging between 8,000 and 11,000 to reach the run size goal (15,000) based on in-season to final method with a point estimate of 10,000 based on 90% of the run entered to date based on mean-run timing. Of note, by 15 July, in-season run size forecasts for Nass Sockeye are performing well (mean absolute percent accuracy 86%; range=66–99% from 1994 to 2017). For in-season Chinook estimates to 15 July, mean percent accuracy is poorer (72%; range: 20–95% from 1999 to 2017) than Sockeye but a reasonable indicator of abundance to date.

<b>IN-SEASON FORECASTS TO GW - METHODS:</b>	<b>SOCK</b>	<b>CHIN</b>	<b>COHO</b>	<b>STEEL</b>	<b>15-Jul-18</b>
1. RUN TIMING METHOD (94-17) - Mean Run timing	203,000	9,000	Too Early	Too Early	
Lower (-2 S.D.)	140,000	7,000	Too Early	Too Early	
Upper (+2 S.D.)	407,000	11,000	Too Early	Too Early	In-season to Final
2. IN-SEASON TO FINAL (regression):	244,000	10,000	Too Early	Too Early	$r^2$ (CH) = 0.99
95% CI - lower	146,000	8,000	Too Early	Too Early	$r^2$ (SO) = 0.57
95% CI - upper	343,000	11,000	Too Early	Too Early	$r^2$ (CO) =
<b>GW RUN SIZE TARGET (DEPENDING ON HARVESTS ABOVE GW)</b>	<b>250,000</b>	<b>15,000</b>	<b>65,000</b>	<b>4,200</b>	$r^2$ (ST) =
Run Timing % Return Estimate to GW	44%	90%	0%	1%	

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

IN-SEASON NET ESCAPEMENT ESTIMATES	SOCK	CHIN	COHO	STEEL
HARVEST ESTIMATES ABOVE GW TO DATE	5,412	1,140	-	-
<b>NET ESCAPEMENT (ABOVE GW):</b>	<b>83,278</b>	<b>6,792</b>	<b>27</b>	<b>253</b>
<i>NET ESCAPEMENT TARGET (UPPER RIVER ONLY)</i>	<i>200,000</i>	<i>13,000</i>	<i>60,000</i>	<i>4,000</i>

### HARVEST ESTIMATES FOR ADULT NASS SALMON & STEELHEAD

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

Alaskan gillnet fisheries start dates in 2018: District 101 (Tree Point) and District 106 (Sumner and Upper Clarence) opened on 17 June. Alaskan seine fisheries start dates in 2018: District 101 (Lower Clarence/Revilla) on 1 July; District 102 (Middle Clarence) on 17 June; District 103 (Cordova) – not open yet, and District 104 (Noyes/Dall) on 15 July. 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 2017) to week ending **14 JULY 2018** based on data from ADFG. Current salmon catches are below average for all salmon species except for Chinook which is average. Of the total in-season Sockeye catch reported in Alaskan fisheries to date (15,560), approximately 5,000 (32%) are estimated as Nass origin based on mean stock composition estimates from 1982 to 2017 and are currently below average (34,000) to date. The average total mean harvest of Nass Sockeye in Alaskan fisheries from 2000 to 2017 was 120,000 (range: 28,000–300,000).

IN-SEASON SE ALASKAN CUM. SALMON CATCH ESTIMATES (ADFG WEBSITE) - 2018									WEEK END: 14-Jul-18		
DISTRICTS	AREA	SOCK CATCH	AVG (00-17)	CHIN CATCH	AVG (00-17)	PINK CATCH	AVG EVE (00-16)	CHUM CATCH	AVG (00-17)	COHO CATCH	AVG (00-17)
DIST 101 GN	TREE PT	6,000	37,000	1,300	1,200	10,500	50,900	63,000	91,000	480	3,700
DIST 106 GN	UPP. CLAR	7,000	38,000	1,400	1,000	8,000	32,000	38,000	54,000	6,700	24,000
DIST 101 SN	LOW CLAR	700	3,200	0	100	14,500	142,600	19,000	34,600	0	1,700
DIST 102 SN	MID CLAR.	1,860	7,600	0	500	7,100	77,200	122,000	205,000	2,500	10,200
DIST 103 SN	CORDOVA	0	0	0	0	0	0	0	0	0	0
DIST 104 SN	NOYES/DALL	0	12,000	0	200	0	58,000	0	20,000	0	7,000
<b>CUMULATIVE TOTAL</b>		<b>15,560</b>	<b>97,800</b>	<b>2,700</b>	<b>3,000</b>	<b>40,100</b>	<b>360,700</b>	<b>242,000</b>	<b>404,600</b>	<b>9,680</b>	<b>46,600</b>

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

Area 3 commercial net fisheries started on 25 June 2018 for gillnets. Total net fisheries conducted in Area 3 to date are four gillnet and two seine fisheries. Next commercial net fishery in Area 3: 16 July (seine) with non-retention of Sockeye, Chinook, and steelhead. Commercial net harvest and release data to **15 JULY 2018** for salmon and steelhead in Area 3 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
GN	6/25/2018	120	3,521	0	8	1	0	0	1,254	36	0	169	4
	6/26/2018	57	1,285	0	0	0	9	0	364	8	0	38	4
	7/2/2018	103	3,770	0	36	2	306	1	5,119	455	0	84	8
	7/3/2018	99	3,051	0	49	2	503	6	1,769	25	0	50	11
<b>GN Total</b>		<b>379</b>	<b>11,627</b>	<b>0</b>	<b>93</b>	<b>5</b>	<b>818</b>	<b>7</b>	<b>8,506</b>	<b>524</b>	<b>0</b>	<b>341</b>	<b>27</b>
SN	7/5/2018	21	141	0	9	1	285	0	1,237	0	0	95	50
	7/11/2018	27	0	529	273	0	6,798	0	7,617	0	0	221	12
<b>SN Total</b>		<b>48</b>	<b>141</b>	<b>529</b>	<b>282</b>	<b>1</b>	<b>7,083</b>	<b>0</b>	<b>8,854</b>	<b>0</b>	<b>0</b>	<b>316</b>	<b>62</b>
<b>Grand Total</b>		<b>427</b>	<b>11,768</b>	<b>529</b>	<b>375</b>	<b>6</b>	<b>7,901</b>	<b>7</b>	<b>17,360</b>	<b>524</b>	<b>0</b>	<b>657</b>	<b>89</b>

Of the total commercial catch (11,768) of sockeye in Area 3 to date, NFWD is estimating approximately 10,118 are of Nass origin (86%) based on stock composition modeling. The average total mean harvest of Nass Sockeye in Canadian commercial net fisheries in Areas 3–5 from 2000 to 2017 was 84,000 (range: 11,000–280,000). DFO plan to implement management actions in Area 3 to reduce harvest impacts on the Kwinageese Sockeye stock during their migration through Area 3 in mid-July. The Nass Sockeye stock requires rebuilding from a past spawning barrier detected in 2011 that resulted in extreme poor returns in 2013 (only 397 spawners) and 2014 (only 498 spawners). Sockeye retention will not be permitted in commercial fisheries in Area 3 from approximately **9 July to 22 July** (Weeks 28 and 29), the anticipated peak of the Kwinageese Sockeye migration, as documented in DFO's 2018 Integrated Fisheries Management Plan (IFMP).

## 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 6 May 2018. Cumulative harvests to week ending **7 JULY** are shown in the table below for Food, Social, and Ceremonial (FSC) catches. For the same week ending period, mean cumulative harvests from 2000 to 2017 are shown for comparison. The current total harvests estimated in 2018 to date, including Nisga'a sale fisheries in the marine and in-river that occurred in June and July, are below average for all Nass salmon and steelhead (see table below). Salmon and steelhead harvests (20,000) in the Nisga'a fisheries to date are currently 32% of average harvests (63,000) from 2000 to 2017.

FSC Reported Week Ending Period		DOMESTIC (FSC) HARVESTS TO WK END - 2018		TOTAL HARVESTS TO DATE INCLUDING SALE FISHERIES - 2018	
NASS SPECIES	Wk end	Harvest	Mean*	Harvest	Mean*
CHINOOK	7-Jul-18	<b>3,189</b>	3,800	<b>3,189</b>	5,100
SOCKEYE	7-Jul-18	<b>6,266</b>	10,800	<b>16,641</b>	54,000
PINK	7-Jul-18	<b>34</b>	470	<b>303</b>	3,500
COHO	7-Jul-18	<b>0</b>	16	<b>0</b>	100
CHUM	7-Jul-18	<b>48</b>	140	<b>48</b>	200
STEELHEAD	7-Jul-18	<b>33</b>	70	<b>33</b>	80

\* Mean harvests from 2000-2017 for week end periods. Harvests include all gear types estimates (net, angling, seine, etc.).

### Nisga'a Sale fishery information to date:

- Total Individual-sale (IS) fisher permits issued in 2018 to date are 123 (including 47 elder permits). Of the permits issued, 53 fishers have participated in IS fisheries to date.
- Summary of permits issued by community are: 42 Gitlaxt'aamiks, 21 Gingolx, 16 Laxgalts'ap, 15 Gitwinksihlkw, 13 Prince Rupert, 9 Terrace, and 5 other areas.
- Next sale fisheries: To be assessed after closure periods. Sale fisheries will be closed to allow passage of the Kwinageese sockeye stock in the marine (9-22 July) and in-river (12-25 July) Nass areas.
- Individual-sale fishery data to date is as follows:

<b>NISGA'A MARINE SALE FISHERY:</b>						
NUMBER OF NISGA'A MARINE FISHERIES (16 HR OPENINGS):		4		JUNE 28, JUNE 29, JULY 5, JULY 6		
DATA FROM JUNE 28 FISHERY (21 BOATS; 12 FISHERS SOLD) - REVIEWED				809 SOCKEYE		
DATA FROM JUNE 29 FISHERY (17 BOATS; 21 FISHERS SOLD) - REVIEWED				2,147 SOCKEYE		
DATA FROM JULY 5 FISHERY (18 BOATS; 8 FISHERS SOLD) - REVIEWED				617 SOCKEYE AND 24 PINK		
DATA FROM JULY 6 FISHERY (17 BOATS; 19 FISHERS SOLD) - REVIEWED				1,811 SOCKEYE AND 245 PINK		
NEXT NISGA'A MARINE SALE FISHERY PLANNED:				<b>CLOSED FROM JULY 9 TO JULY 22 &amp; THEN ASSESSED</b>		
<b>NISGA'A IN-RIVER SALE FISHERY:</b>						
NUMBER OF NISGA'A IN-RIVER FISHERIES (10 HR OPENINGS):		2		JULY 9, JULY 10		
DATA FROM JULY 9 FISHERY (30 FISHERS SOLD) - REVIEWED				2,778 SOCKEYE		
DATA FROM JULY 10 FISHERY (27 FISHERS SOLD) - REVIEWED				2,213 SOCKEYE		
NEXT NISGA'A IN-RIVER SALE FISHERY PLANNED:				<b>CLOSED FROM JULY 12 TO JULY 25 &amp; THEN ASSESSED</b>		

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

NISGA'A TOTAL HARVEST SUMMARY	SOCK	CHIN	COHO	PINK-EVE	CHUM	STEEL
MARINE SALE FISHERY TOTAL	5,384	CLOSED	0	284	CLOSED	CLOSED
IN-RIVER SALE FISHERY TOTAL	4,991	CLOSED	0	CLOSED	CLOSED	CLOSED
<b>INDIVIDUAL SALE (IS) FISHERY TOTAL</b>	<b>10,375</b>	<b>CLOSED</b>	<b>0</b>	<b>284</b>	<b>CLOSED</b>	<b>CLOSED</b>
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
<b>DOMESTIC (FSC) GILLNET FISHERY - WK END: JULY 7</b>	<b>6,266</b>	<b>3,189</b>	<b>0</b>	<b>19</b>	<b>48</b>	<b>33</b>
<b>SUB TOTAL (NLG TREATY FISHERIES)</b>	<b>16,641</b>	<b>3,189</b>	<b>0</b>	<b>303</b>	<b>48</b>	<b>33</b>
NLG SOCK DEMONSTRATION FISHERY HARVEST - DFO INVENTORY	CLOSED	CLOSED	CLOSED	CLOSED	CLOSED	CLOSED
<b>GRAND TOTAL</b>	<b>16,641</b>	<b>3,189</b>	<b>0</b>	<b>303</b>	<b>48</b>	<b>33</b>



## 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 2017, preliminary forecasts for Nass salmon and Nisga'a entitlement allocations for 2018 were calculated using pre-season forecast models. 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 2018 predict a below average return forecast for Nass Sockeye (377,000 vs. 570,000), Nass Area even-year Pink (635,000 vs. 740,000), Nass Chinook (19,000 vs. 31,000), Nass Chum (33,000 vs. 52,000; well below the 45,000 escapement goal), and above average return forecast for Nass Coho (223,000 vs. 200,000) based on mean TRTC estimates from 1994 to 2017. When reviewing Nass salmon returns over a 34-year period (1985–2017), the forecasted returns in 2018 are projected to be poor for Chinook (28<sup>th</sup>), Sockeye (27<sup>th</sup>) and Chum (22<sup>nd</sup>); fair for Pink (17<sup>th</sup>); and good for Coho (10<sup>th</sup>) with caution for Coastal Nass Coho salmon returns that returned in low numbers in 2015.

PRE-SEASON TRTC & ENTITLEMENT FORECASTS	SOCK	CHIN	COHO	PINK-EVE	CHUM
HISTORICAL MEAN TRTC (1994-2017)	570,000	31,000	200,000	740,000	52,000
PRE-SEASON TRTC FORECAST (50% PROBABILITY)	377,000	19,000	223,000	635,000	33,000
PRE-SEASON NISGA'A ENTITLEMENT	57,000	4,000	17,800	65,000	2,640
CUM NISGA'A UNDERAGE (+)/OVERAGE (-) AVAILABLE OR OWED: 2000-17	4,109	no surplus	3,988	16,356	-1,198
TOTAL PRE-SEASON NISGA'A CATCH POTENTIAL	61,000	4,000	22,000	81,000	1,400

### In-season TRTC and Nisga'a entitlement estimates for Nass salmon:

Preliminary in-season TRTC estimates estimated by NFWF for Nass Sockeye and Chinook are 229,000 (170,000–360,000) and 12,000 (10,000–14,000), respectively, based on preliminary harvest and run size data and mean run timing to date (Sockeye 49% and Chinook 87%) to Area 3 with standard deviation range estimates from 1994 to 2017 returns. The current in-season TRTC estimates are currently tracking below pre-season forecasts for Nass Sockeye and Chinook salmon with ranges indicating returns that are early or late.

Current Nisga'a entitlement ranges for: Nass Sockeye is between 22,000 and 63,000 with a current harvest estimate of 16,641 to date, and for Nass Chinook, between 2,000 and 3,500, with a current harvest of 3,189. The Nisga'a Lisims Government also has an underage of 5,700 Nass Chinook accumulated from 2000 to 2017 fisheries.

IN-SEASON TRTC & ENTITLEMENT ESTIMATES	SOCK	CHIN	COHO	PINK-EVE	CHUM
PROJECTED TRTC BASED ON MEAN RUN % & MR EST.	229,000	12,000	Pre-season	Pre-season	Pre-season
ESTIMATED %TRTC TO DATE: MEAN. RUN TIMING	49%	87%	0%	0%	1%
Lower (-2 S.D.)	170,000	10,000	Pre-season	Pre-season	Pre-season
Upper (+2 S.D.)	360,000	14,000	Pre-season	Pre-season	Pre-season
IN-SEASON NISGA'A ENTITLEMENT TARGET	28,000	2,500	18,000	65,000	2,600
IN-SEASON UNDERAGE (+)/OVERAGE (-) AVAILABLE OR OWED	4,109	no surplus	3,988	16,356	-1,198
TOTAL IN-SEASON NISGA'A TREATY CATCH POTENTIAL	32,000	2,500	22,000	81,000	1,400
MINIMUM ENTITLEMENT FORECAST	22,000	2,000	Pre-season	Pre-season	Pre-season
MAXIMUM ENTITLEMENT FORECAST	63,000	3,500	Pre-season	Pre-season	Pre-season

The next Nass River general stock assessment update from the Nisga'a Fisheries and Wildlife Department is planned for: **Monday, 23 July 2018.**

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

Weekly updates are posted after each Monday's 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 tagged at Gitwinksihlkw fishwheels on 6 July 2018.



Photo 2. Sockeye Salmon caught and tagged at Gitwinksihlkw fishwheels on 13 July 2018.



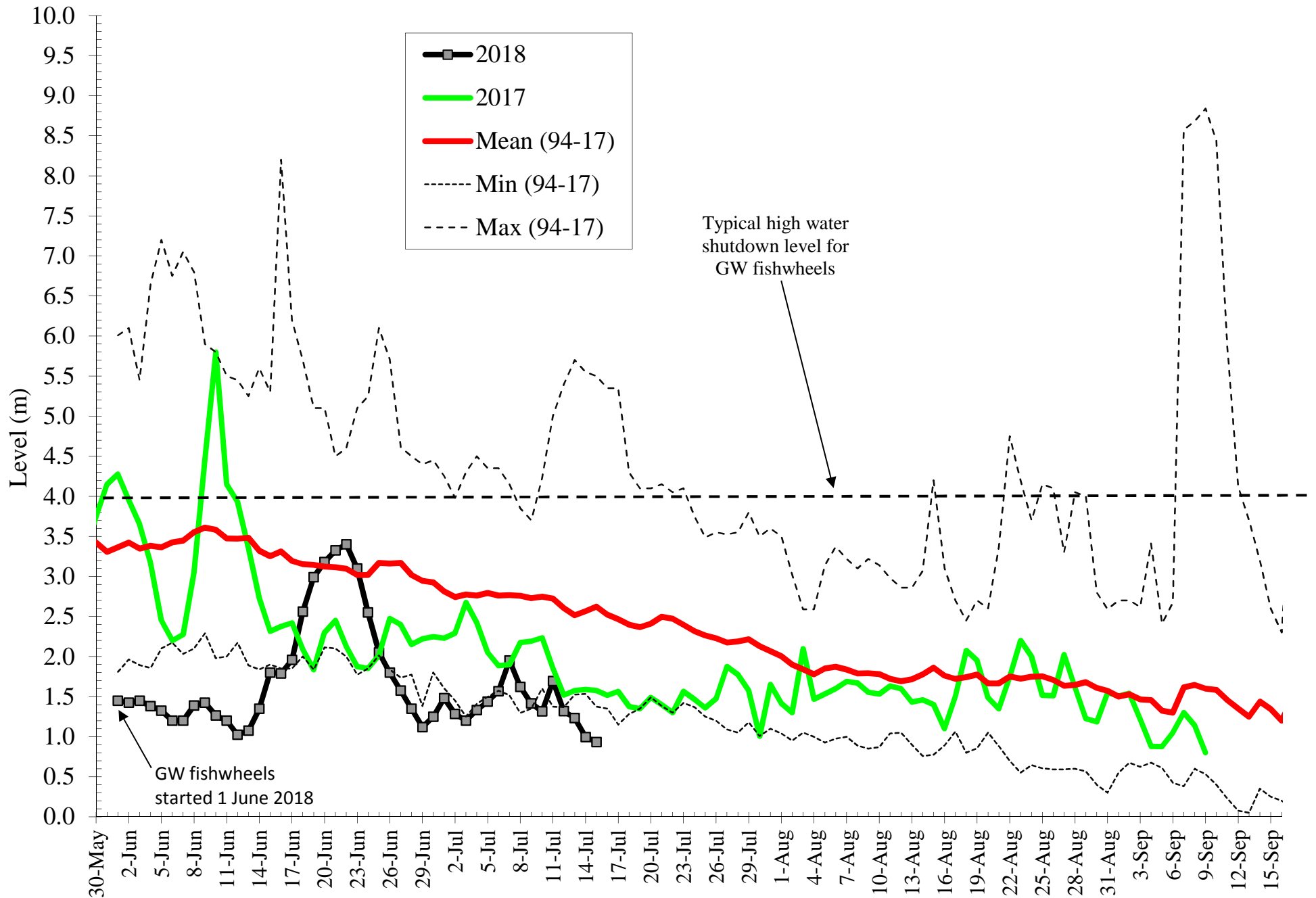
Photo 3. Summer-run steelhead caught and adipose fin marked at Gitwinksihlkw fishwheels on 14 July 2018.



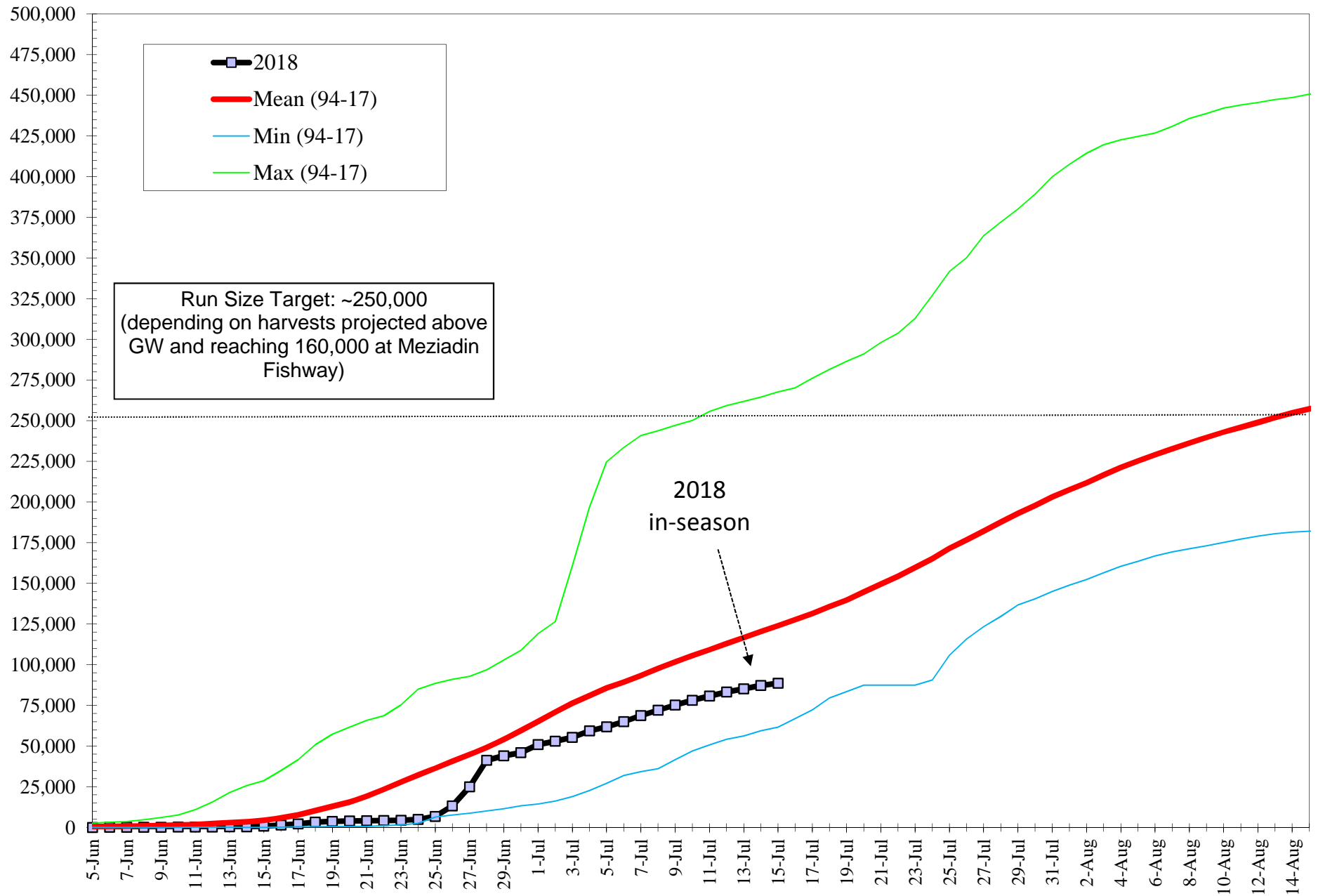
Photo 4. Chinook Salmon caught and tagged at Gitwinksihlkw fishwheels on 13 July 2018.

*Photos courtesy of NFWD's senior crew leader, Ben Guno Jr and fishwheel crew.*

# Daily Water Level at Gitwinksihlkw Fishwheels 2018

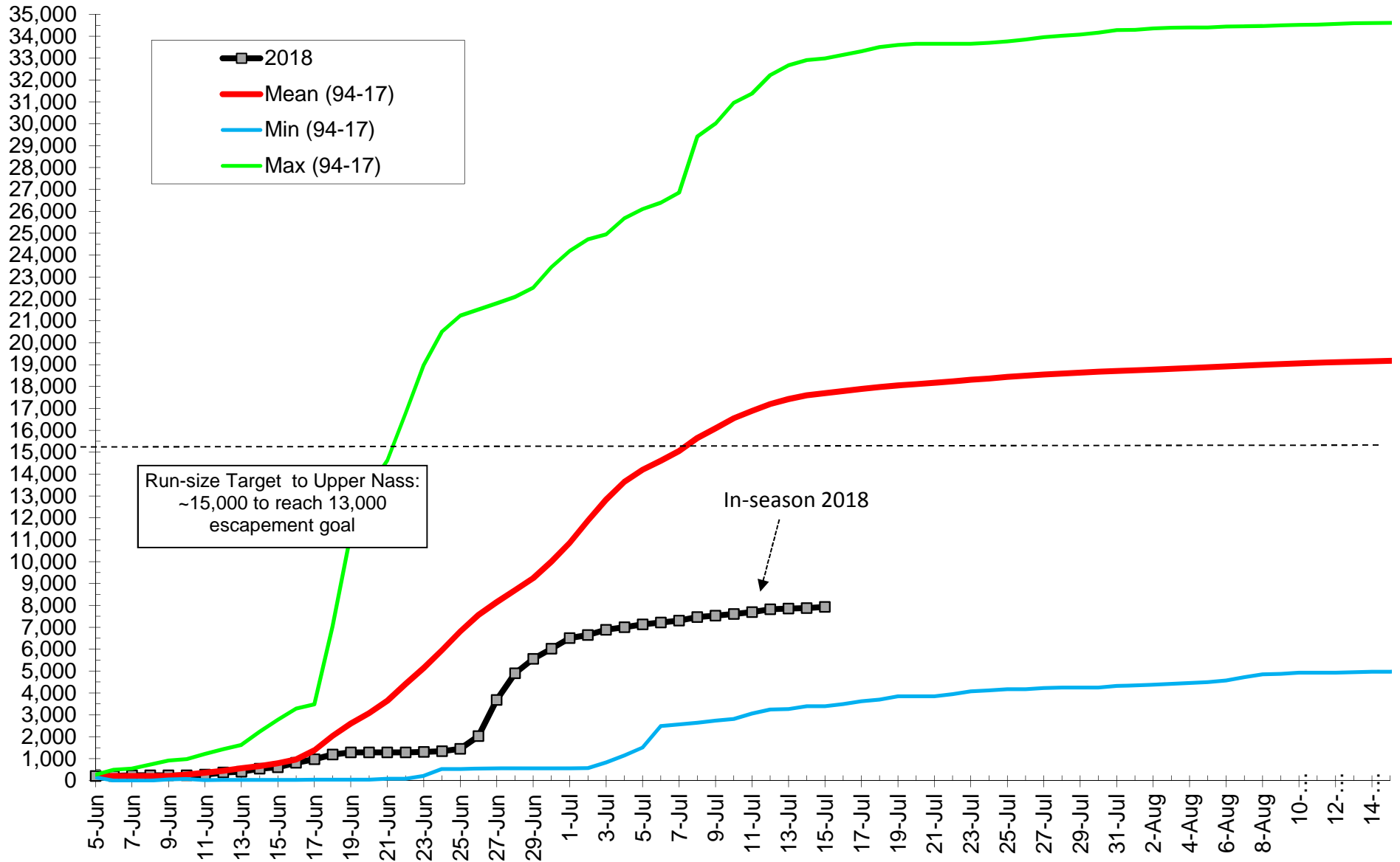


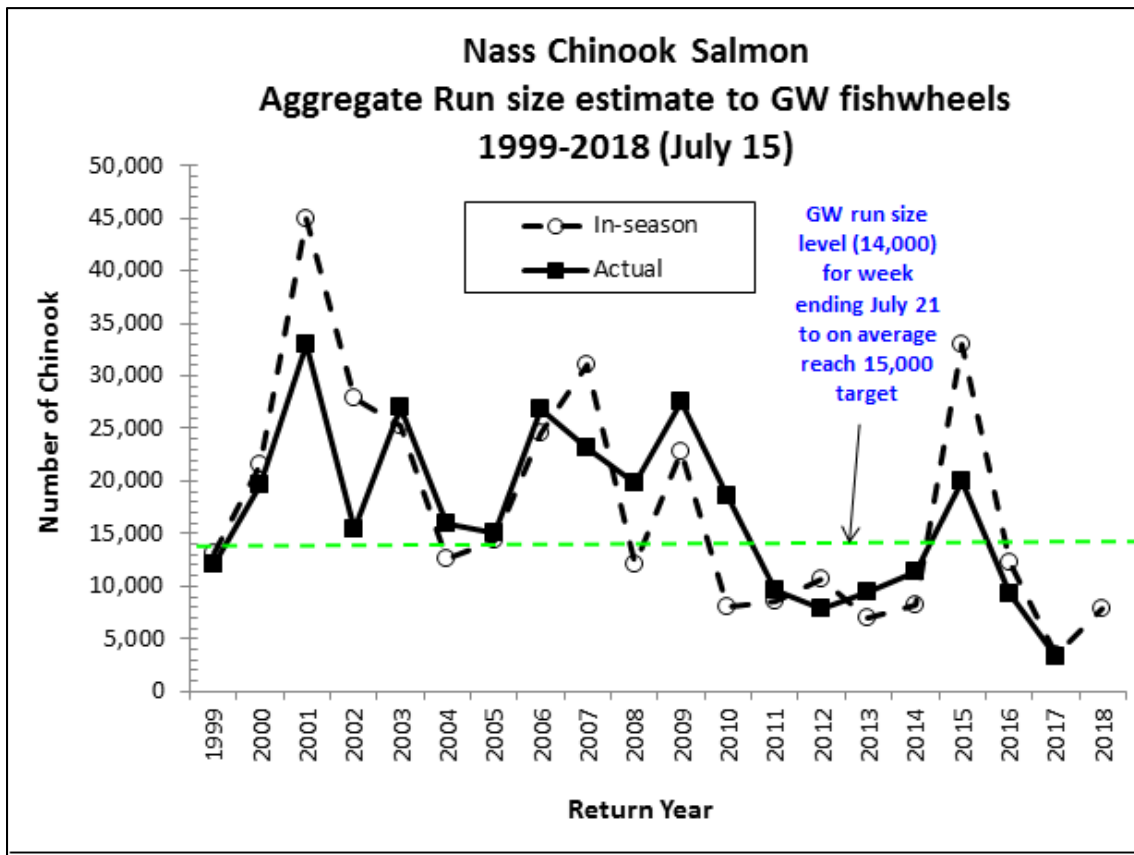
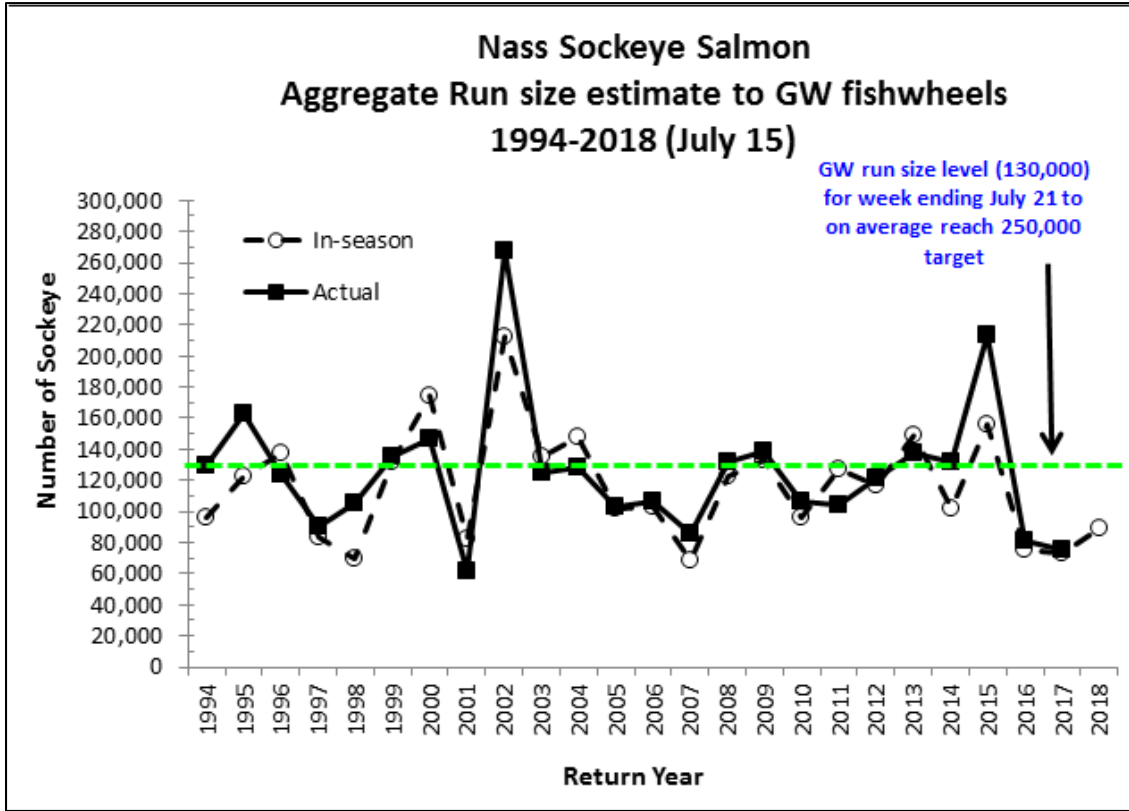
## Nass Sockeye Cum. Run Size to Gitwinksilhkw Fishwheels 2018 versus 94-17 Mean, Min, Max returns (before upriver harvests)



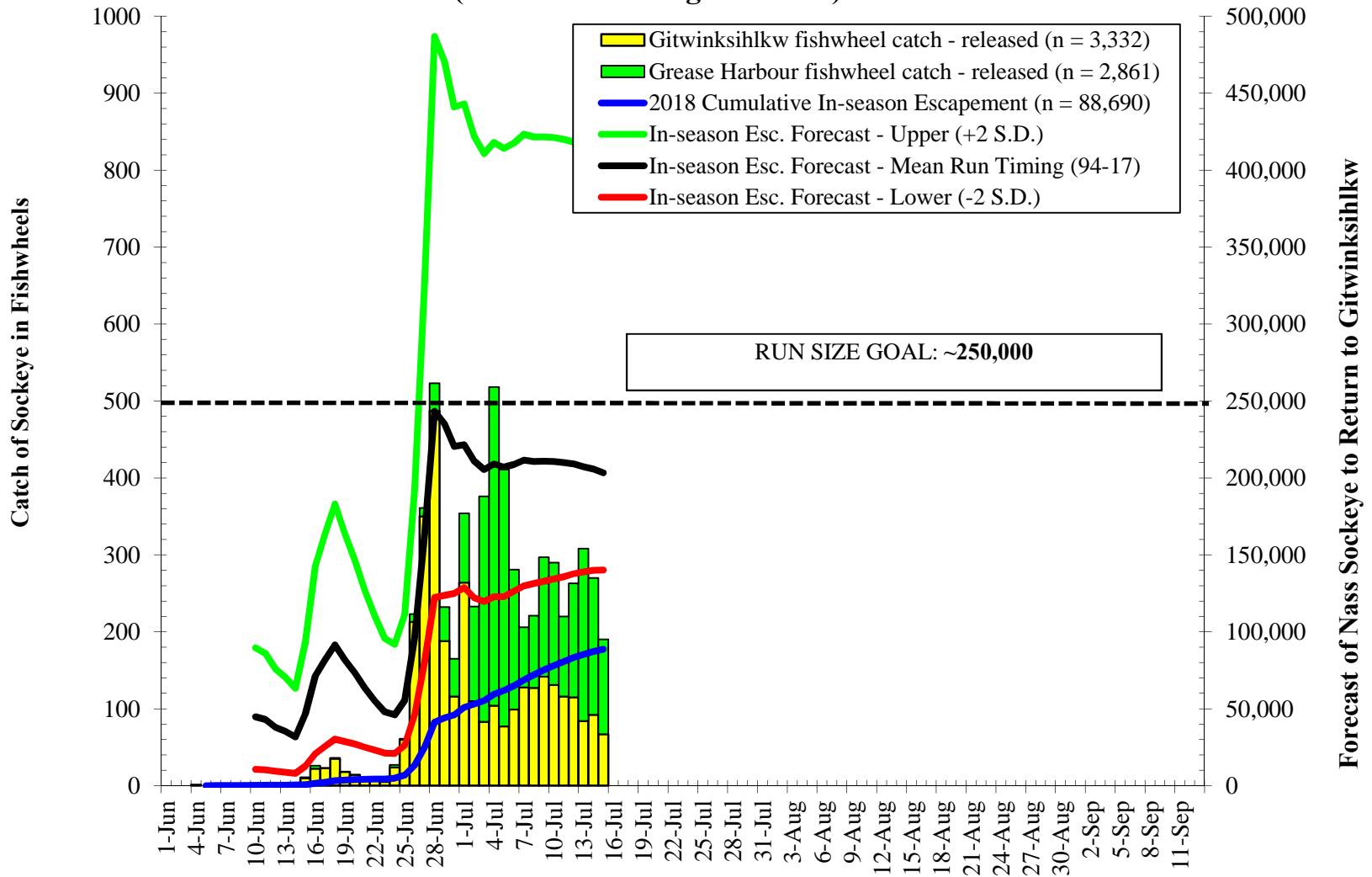


## Cumulative Nass Adult Chinook Run Size to Gitwinksihlkw 2018 vs 94-17 Mean, Minimum and Maximum returns (before up river harvests)

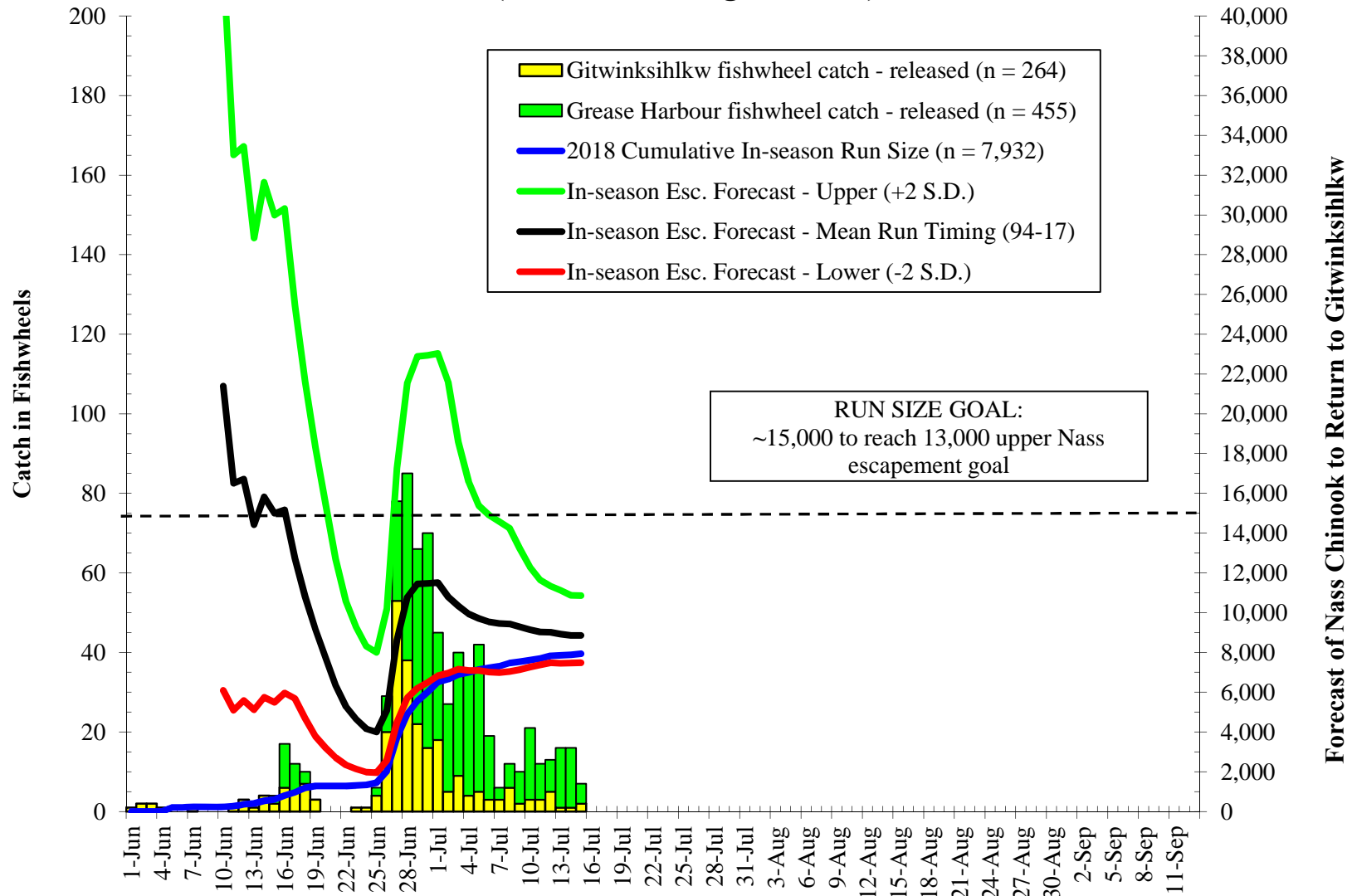


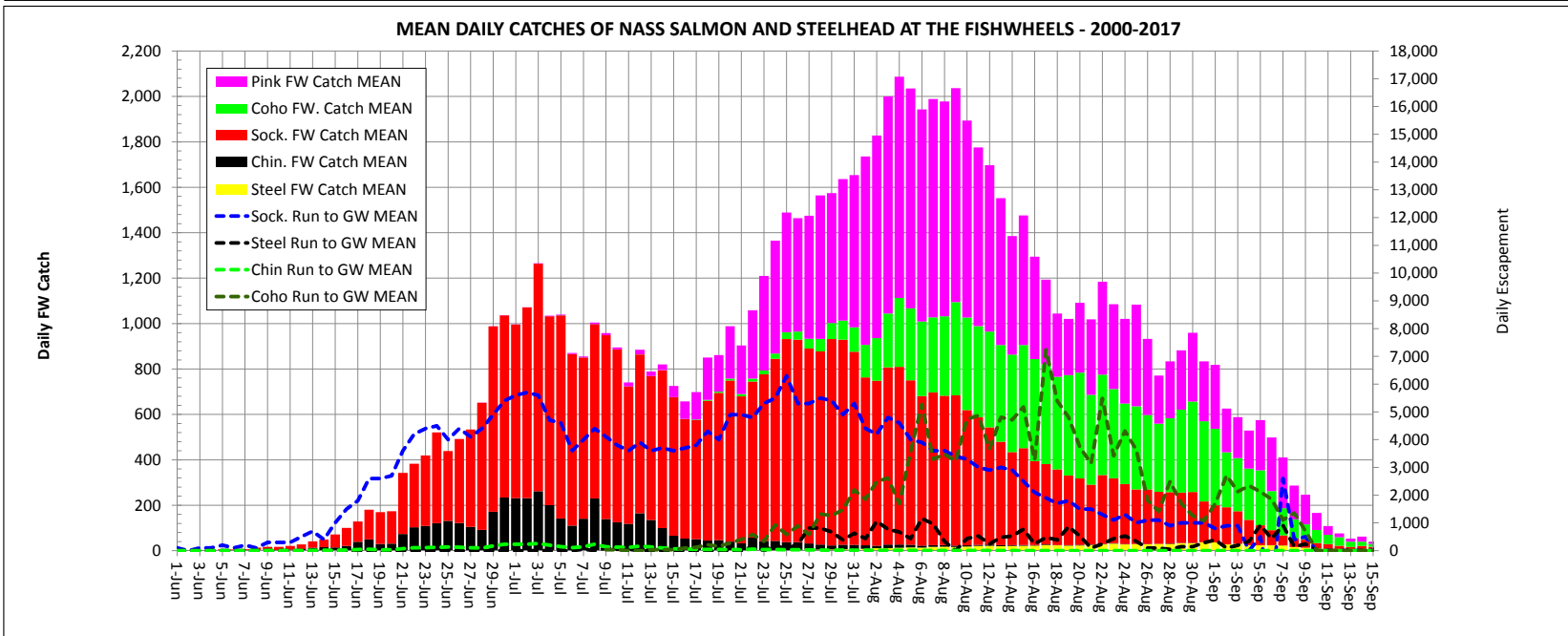
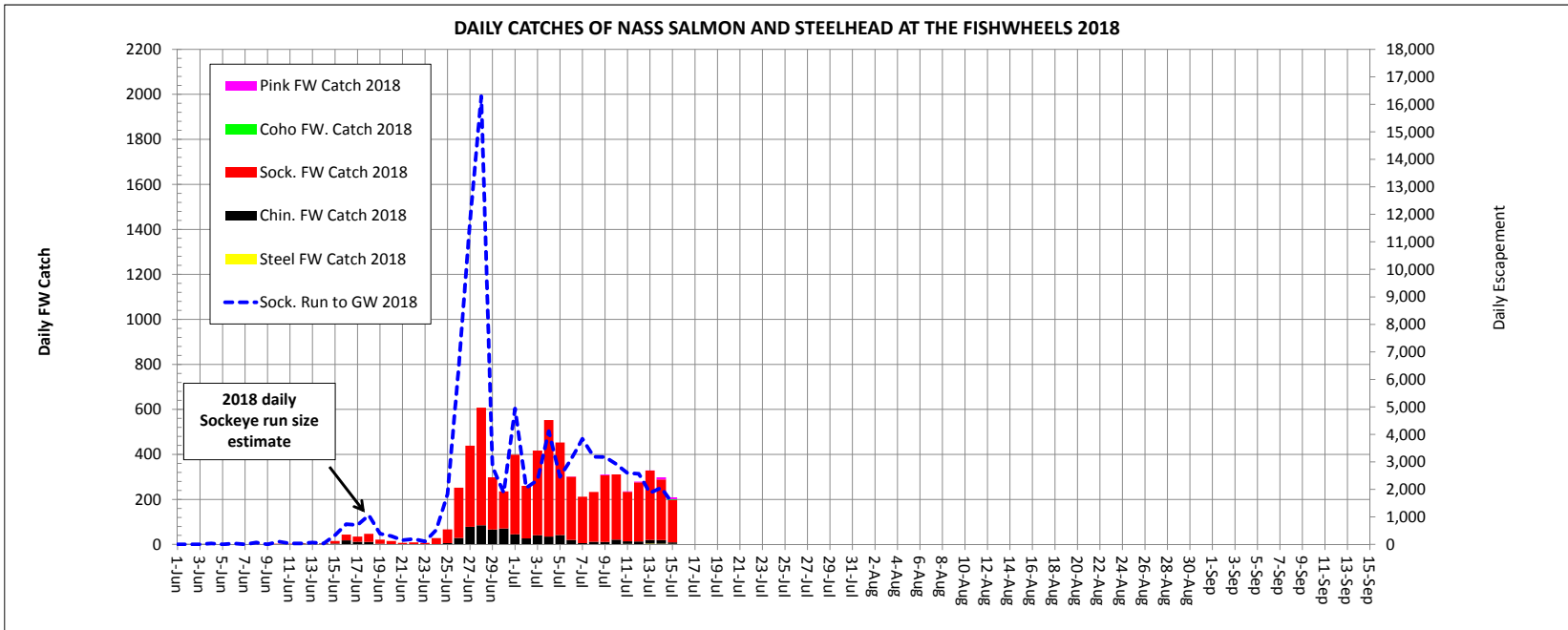


### Nass Sockeye ( $\geq 45$ cm NFL) Run Forecasts to Gitwinksihlkw Fishwheels 2018 (Mean Run timing - 1994-17)



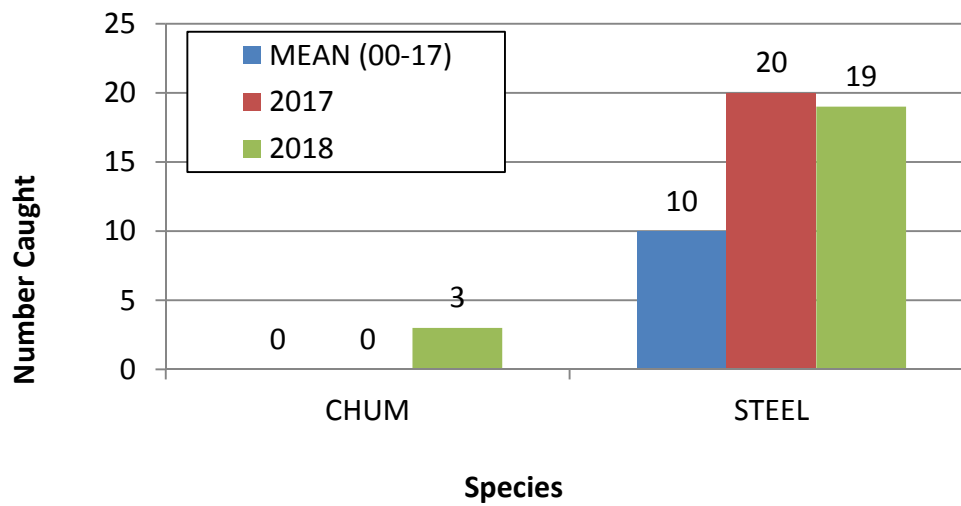
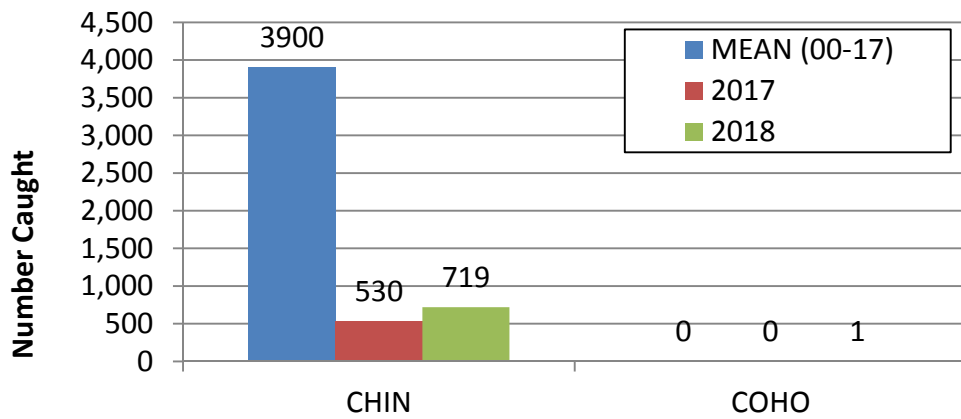
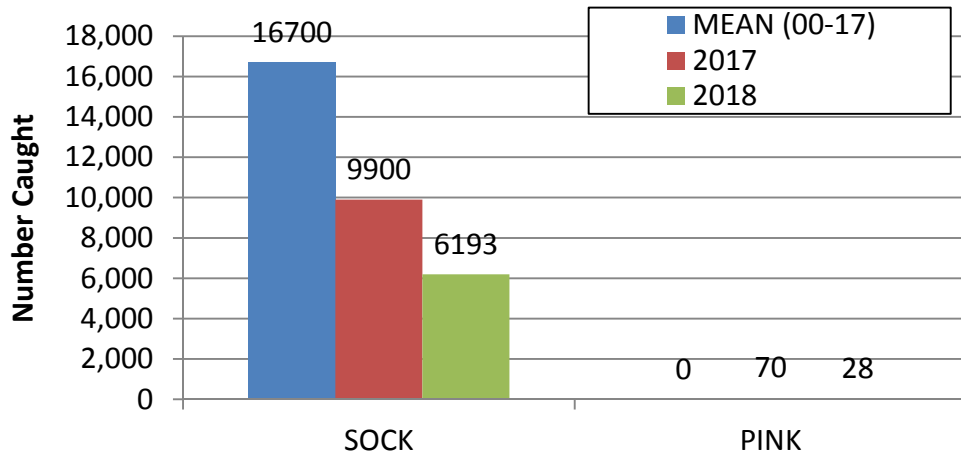
### Nass Chinook ( $\geq 50$ cm NFL) Forecasts to Gitwinksihlkw Fishwheels 2018 (Mean Run timing - 1994-17)







### Nass Fishwheel Catches 2018 - 15 JULY



**Cumulative Daily Run Sizes of Adult Nass River Sockeye Salmon (≥ 45 cm NFL) to Gitwinksihkw Fishwheels, 2000-2018.**

**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.**

Date	Cumulative run size																		IN-SEASON (FW-MR)		
	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018 Cum	Mean (94-17)	2018 Daily
1-Jun													216				0	0	0	100	0
2-Jun										175	119	0	809	0	0		0	0	0	100	0
3-Jun										175	119	0	1,173	93	275		0	0	0	200	0
4-Jun										175	158	0	1,609	278	687	0	128	14	34	300	34
5-Jun										175	238	0	2,646	432	824	283	193	58	34	500	0
6-Jun						40			207	175	360	25	3,245	494	1,510	534	324	101	67	600	34
7-Jun						121			326	175	401	75	3,682	572	2,060	1,069	455	173	67	800	0
8-Jun		864				229	47		533	175	441	275	4,754	788	3,444	1,699	618	216	134	900	67
9-Jun		1,326				229	209		741	175	645	524	6,136	1,070	5,060	1,983	749	245	134	1,200	0
10-Jun		1,505				229	419		1,127	175	645	699	7,027	1,523	7,644	2,141	1,010	245	235	1,500	101
11-Jun		1,521			174	364	419		1,542	175	849	1,024	7,398	2,071	10,921	2,487	1,239	245	268	1,800	34
12-Jun	111	1,814			1,059	836	419		1,928	175	1,134	1,322	7,413	3,136	15,583	3,811	1,827	245	302	2,300	34
13-Jun	111	2,577			1,783	1,196	419		2,314	175	1,294	1,620	7,413	4,137	21,491	5,102	2,317	245	369	3,000	67
14-Jun	111	2,756		1,511	2,375	1,723	419	0	2,551	175	1,414	2,366	8,430	5,436	25,737	7,208	2,839	282	402	3,400	34
15-Jun	111	3,032		5,204	3,328	2,250	419	0	2,758	175	1,733	3,484	10,465	7,174	28,694	9,911	3,002	505	738	4,400	335
16-Jun	553	3,877		10,343	4,973	3,776	419	154	3,466	1,773	2,092	5,671	12,009	8,441	34,958	14,815	3,263	703	1,476	5,900	738
17-Jun	2,517	4,832		15,268	8,689	6,161	419	488	4,587	4,447	2,691	6,690	12,082	9,108	41,540	20,661	3,492	826	2,175	7,700	700
18-Jun	4,342	6,216		20,996	17,734	9,656	419	561	6,210	8,336	4,327	9,126	12,446	10,816	50,857	26,413	3,851	1,378	3,240	10,300	1,065
19-Jun	7,799	6,687		27,393	23,851	11,760	605	561	9,868	13,233	6,282	10,577	13,478	12,777	57,344	34,868	4,373	2,018	3,632	12,900	392
20-Jun	11,781	7,033		39,866	24,670	13,426	2,630	561	13,792	17,748	9,109	12,107	13,711	13,684	61,573	40,714	5,287	2,431	3,937	15,600	305
21-Jun	17,506	7,075	29,917	49,020	24,670	15,863	4,702	659	19,605	23,523	12,059	13,836	14,572	15,845	65,738	46,705	6,691	2,883	4,089	19,200	152
22-Jun	24,476	7,075	53,842	52,179	24,670	21,386	7,844	1,077	23,216	31,305	16,811	16,598	17,368	18,620	68,743	56,095	9,042	3,422	4,285	23,400	196
23-Jun	32,662	7,075	75,318	55,636	24,670	26,505	12,966	1,616	24,852	40,581	23,210	19,996	17,866	24,605	70,093	65,771	11,883	4,463	4,394	27,800	109
24-Jun	42,231	7,741	84,932	63,106	24,670	31,011	17,086	2,573	30,400	53,871	28,552	24,229	17,866	32,181	73,868	75,066	14,169	5,303	4,916	32,300	522
25-Jun	55,229	10,934	88,616	70,810	24,670	33,641	20,461	7,209	36,366	65,154	33,615	26,911	17,866	34,456	75,537	82,174	17,303	6,401	6,741	36,300	1,825
26-Jun	72,182	16,443	91,072	76,530	26,511	35,773	23,347	10,058	40,975	72,579	39,888	30,271	17,866	44,050	78,019	88,498	20,960	7,698	13,221	40,700	6,479
27-Jun	79,898	22,058	91,072	80,990	29,568	38,720	25,582	15,416	45,804	79,358	45,962	35,037	17,888	51,420	87,281	92,872	25,459	8,782	24,958	44,800	11,738
28-Jun	79,898	25,084	91,072	84,831	35,665	42,868	27,728	22,065	50,633	86,952	51,354	39,940	18,832	77,165	91,753	96,785	29,051	10,051	41,251	49,200	16,292
29-Jun	79,898	26,779	98,717	86,966	41,467	48,063	32,777	29,196	54,242	91,203	55,440	43,995	31,382	91,289	94,676	102,875	34,029	11,449	44,078	54,100	2,827
30-Jun	79,898	30,487	102,127	89,501	48,006	54,382	38,689	36,770	58,643	94,237	58,336	48,384	42,726	96,013	97,207	108,877	38,181	13,232	45,959	59,500	1,881
1-Jul	85,966	33,888	108,610	92,734	51,160	58,517	42,023	43,172	67,993	97,871	61,322	52,772	55,482	100,305	98,557	119,099	41,031	14,430	50,988	65,100	4,939
2-Jul	103,938	35,981	126,584	93,814	56,227	61,515	45,858	45,336	76,305	102,054	62,848	55,662	75,066	104,651	101,507	126,156	42,798	16,189	52,957	70,800	2,059
3-Jul	112,961	37,197	160,994	96,537	62,259	63,453	51,443	48,452	76,305	105,208	63,774	58,654	88,722	108,543	103,801	132,554	44,816	18,975	55,297	76,400	2,340
4-Jul	115,310	38,313	196,911	99,056	65,054	64,892	58,362	53,305	76,305	107,865	64,777	60,738	95,873	111,235	104,522	139,039	47,276	22,723	59,411	81,100	4,114
5-Jul	117,760	39,513	224,762	101,438	69,166	67,550	64,793	59,239	76,305	110,495	66,514	62,650	98,807	112,684	106,109	145,982	49,066	27,040	61,870	85,700	2,459
6-Jul	117,760	40,914	233,579	103,953	74,438	69,271	68,722	62,785	76,305	112,850	68,813	65,152	103,551	113,873	108,589	153,038	52,046	31,961	64,977	89,300	3,107
7-Jul	117,958	42,161	240,891	106,318	79,176	72,042	71,557	64,873	86,686	115,714	73,241	69,761	105,938	116,880	110,309	159,675	55,012	34,307	68,816	93,300	3,838
8-Jul	120,535	45,210	243,807	109,093	88,294	75,611	75,379	71,881	96,917	117,862	80,018	72,385	107,844	119,621	112,591	165,412	57,096	36,132	72,003	97,700	3,187
9-Jul	126,179	46,974	247,158	111,492	94,159	77,789	78,285	76,646	105,678	122,393	83,125	73,734	109,302	122,422	114,737	171,704	59,973	41,552	75,182	101,800	3,179
10-Jul	132,168	49,577	250,162	113,304	100,632	81,564	81,203	81,381	112,694	125,670	87,773	74,808	110,104	125,989	116,806	178,531	63,656	47,060	78,107	105,600	2,925
11-Jul	135,632	50,732	255,678	115,573	104,618	85,967	85,121	85,702	117,038	129,196	93,589	76,521	110,617	128,878	118,206	184,230	66,808	54,638	80,697	109,200	2,590
12-Jul	140,067	54,206	259,269	117,890	108,888	90,486	89,920	86,278	119,205	131,682	98,109	79,745	111,188	131,649	120,808	194,202	70,047	61,027	83,264	113,100	2,568
13-Jul	142,248	56,301	261,891	119,333	115,590	95,442	94,695	86,278	122,817	134,647	101,199	85,035	113,917	132,769	123,616	200,631	72,877	66,447	85,140	116,700	1,876
14-Jul	145,873	59,389	264,572	122,672	121,616	100,230	98,327	86,278	126,974	137,077	103,602	95,295	117,312	134,614	127,659	207,687	75,658	70,941	87,194	120,400	2,054
15-Jul	147,184	61,634	267,697	124,472	128,259	102,695	100,895	86,278	131,854	139,073	106,100	104,110	120,872	137,242	132,123	212,945	81,378	75,436	88,690	124,000	1,496
16-Jul	149,032	66,920	270,225	127,797	130,229	104,339	104,774	86,278	137,633	141,826	106,863	112,758	124,421	141,659	136,082	218,285	86,476	80,836		127,700	
17-Jul	150,546	72,272	276,077	130,616	133,526	108,093	108,037	86,278	142,705	144,324	107,740	117,770	126,835	147,866	141,276	221,173	90,853	85,383		131,500	
18-Jul	151,917	79,555	281,561	134,275	137,506	115,877	111,915	86,278	145,257	146,419	110,337	124,416	131,634	155,582	146,751	226,540	96,399	89,456		135,800	
19-Jul	153,443	83,510	286,433	136,231	141,050	123,640	114,997	90,356	147,135	147,982	113,473	133,203	137,302	162,850	150,907	229,559	100,385	94,098		139,800	
20-Jul	154,540	87,412	291,060	142,802	146,018	133,291	119,238	93,290	150,432	150,540	118,716	142,564	145,152	170,566	157,059	232,455	106,275	99,309		144,700	
21-Jul	155,565	87,412	298,146	146,769	149,068	138,063	124,476	96,029	154,763	154,254	124,889	150,394	152,975	179,125	161,865	234,426	114,234	104,472		149,600	
22-Jul	157,711	87,412	303,763	155,140	153,585	141,224	130,022	98,444	160,692	159,775	129,446	157,389	156,631	185,644	168,786	239,499	119,947	109,493		154,400	
23-Jul	160,552	87,412	312,922	162,777	157,073	145,381	135,369	104,582	166,548	165,073	134,395	164,784	163,011	192,810	174,522	247,385	123,543	112,967		159,700	
24-Jul	164,377	90,640	327,029	169,680	162,273	149,641	140,499	109,959	170,288	168,584	140,324	170,836	170,726	198,234	178,271	258,659					

Cumulative Daily Run Sizes of Adult Nass River Chinook Salmon (≥ 50 cm NFL) to Gitwinksihlkw Fishwheels, 2000-2018.																			IN-SEASON		
Note: In-season cum. values with yellow shading are preliminary and will change as mark-recapture data finalize over a 5-d period as fish pass the upper fishwheels.																					
Date	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018 Cum	Mean (94-17)	2018 Daily
5-Jun-18																			201	205	201
6-Jun-18						14			23		488		24	0		0	0	0	201	205	0
7-Jun-18		23				72			69		548		24	17	97	0	46	0	235	205	34
8-Jun-18		168				72	47		115		731		24	50	97	0	68	25	235	205	0
9-Jun-18		306				72	141		138		914		47	67	161	59	91	50	235	205	0
10-Jun-18		345				72	157		208		975		71	67	290	88	114	151	235	269	0
11-Jun-18		352			16	101	157		600		1,219	21	71	84	483	133	228	201	268	355	34
12-Jun-18	32	559			49	173	157		669		1,280	106	95	134	772	177	319	226	369	439	101
13-Jun-18	32	1,248			98	404	157		669		1,524	212	102	167	901	177	410	251	402	567	34
14-Jun-18	32	1,409			147	505	157		715		1,645	212	126	301	1,030	177	547	251	537	660	134
15-Jun-18	32	1,471			279	245	157		738		1,828	212	134	318	1,287	251	707	251	604	787	67
16-Jun-18	161	1,731		1,164	636	664	157	25	853	159	2,499	276	142	318	1,706	487	912	251	805	961	201
17-Jun-18	850	2,252		2,513	1,908	1,141	157	37	1,222	319	2,742	467	142	351	2,092	811	1,322	301	967	1,386	162
18-Jun-18	1,410	2,903		5,042	3,946	2,065	157	37	1,315	546	3,352	616	142	485	2,478	1,976	1,527	352	1,190	2,045	222
19-Jun-18	2,013	3,209		6,035	4,386	2,628	173	37	1,730	865	4,083	722	300	619	2,768	2,403	1,573	553	1,280	2,602	91
20-Jun-18	2,928	3,278		7,059	4,418	2,859	361	37	2,168	1,275	5,058	892	457	686	2,929	2,624	1,687	653	1,280	3,074	0
21-Jun-18	4,188	3,278	866	11,838	4,418	3,148	896	86	2,629	2,345	6,643	977	457	686	3,315	3,170	1,801	754	1,280	3,637	0
22-Jun-18	5,480	3,278	2,553	16,771	4,418	3,725	1,760	86	2,883	4,484	8,471	1,253	489	719	3,701	3,361	2,006	904	1,280	4,418	0
23-Jun-18	7,450	3,278	4,421	18,974	4,418	4,592	3,284	210	2,883	6,738	9,933	1,401	505	803	3,991	3,730	2,165	1,181	1,309	5,146	28
24-Jun-18	9,452	3,286	5,816	20,510	4,418	6,122	5,357	1,479	3,114	11,109	11,335	1,593	520	837	4,280	4,172	2,553	1,281	1,336	5,959	27
25-Jun-18	11,659	3,692	6,144	21,240	4,418	7,826	9,662	1,886	3,483	15,388	12,615	1,869	528	937	4,474	5,086	2,826	1,306	1,449	6,809	113
26-Jun-18	12,746	6,380	6,354	21,519	4,418	9,270	12,553	2,613	4,475	15,912	13,834	2,187	544	1,054	4,860	6,767	3,100	1,331	2,034	7,562	585
27-Jun-18	12,972	9,827	6,354	21,798	4,484	9,949	12,508	3,919	5,766	16,686	14,982	2,718	552	1,104	4,924	7,976	3,373	1,482	3,683	8,145	1,649
28-Jun-18	12,972	10,546	6,354	22,093	4,516	10,454	13,134	5,201	6,873	20,100	15,845	3,164	552	1,221	5,600	9,259	3,738	1,784	4,899	8,697	1,216
29-Jun-18	12,972	10,738	8,168	22,512	4,908	11,003	13,590	5,571	7,289	22,172	16,454	3,461	552	1,238	5,697	10,615	4,331	1,859	5,556	9,250	657
30-Jun-18	12,972	11,067	9,864	22,776	5,658	11,249	16,292	6,076	7,496	23,447	16,637	3,843	552	1,389	5,761	11,676	4,923	2,035	6,018	10,006	462
1-Jul-18	13,134	13,495	10,821	22,900	6,130	11,494	19,340	6,187	8,027	24,198	16,759	4,311	552	1,506	6,276	12,148	5,334	2,085	6,511	10,855	493
2-Jul-18	13,747	19,538	11,933	22,915	7,370	11,711	21,414	6,434	8,811	24,721	16,820	4,757	568	3,079	6,855	12,826	5,676	2,135	6,646	11,864	135
3-Jul-18	14,727	24,501	12,544	23,117	9,163	12,028	22,419	7,679	8,811	24,949	17,003	5,181	828	5,287	7,531	14,168	6,542	2,236	6,888	12,833	243
4-Jul-18	15,244	25,688	13,291	23,427	10,761	12,360	23,001	11,968	8,811	25,382	17,124	5,861	1,135	6,592	8,143	14,890	7,020	2,286	6,999	13,646	110
5-Jul-18	15,405	26,110	13,829	23,877	12,408	12,635	23,535	13,287	8,811	25,837	17,124	6,901	1,506	7,061	8,625	15,849	7,431	2,437	7,137	14,199	139
6-Jul-18	15,405	26,393	14,385	24,637	13,337	12,649	23,786	13,521	8,811	26,087	17,246	7,475	2,578	7,479	9,108	16,999	7,750	2,487	7,221	14,614	84
7-Jul-18	15,416	26,860	14,786	25,211	13,386	12,707	24,053	15,924	8,857	26,224	17,307	8,324	4,233	7,646	9,526	17,765	7,864	2,562	7,305	15,049	84
8-Jul-18	15,545	29,418	15,051	25,956	13,467	13,010	24,116	19,807	9,872	26,338	17,734	8,515	5,574	8,115	9,526	18,620	7,909	2,638	7,472	15,650	167
9-Jul-18	15,911	30,008	15,124	26,189	13,630	13,487	24,242	21,878	12,224	26,543	17,917	8,685	6,062	8,684	9,687	19,078	8,046	2,738	7,527	16,084	55
10-Jul-18	16,406	30,958	15,224	26,406	13,859	14,079	24,367	23,110	15,799	26,747	18,039	8,812	6,819	8,935	10,234	19,387	8,183	2,814	7,609	16,554	82
11-Jul-18	16,826	31,379	15,279	26,530	14,169	14,526	24,587	23,172	18,152	26,952	18,160	9,046	7,434	9,219	10,428	19,579	8,570	3,065	7,691	16,890	81
12-Jul-18	18,161	32,221	15,306	26,654	14,690	14,728	25,137	23,172	19,190	26,998	18,282	9,195	7,671	9,286	10,653	19,741	8,753	3,241	7,825	17,203	135
13-Jul-18	18,753	32,681	15,370	26,732	15,342	14,858	26,064	23,172	19,351	27,066	18,404	9,301	7,789	9,387	10,975	19,756	8,981	3,266	7,852	17,421	27
14-Jul-18	19,345	32,911	15,406	26,840	15,783	15,017	26,661	23,172	19,513	27,294	18,465	9,471	7,797	9,420	11,168	19,770	9,163	3,391	7,879	17,594	27
15-Jul-18	19,582	32,987	15,443	26,996	15,946	15,104	26,834	23,172	19,836	27,521	18,587	9,556	7,797	9,504	11,297	19,829	9,231	3,391	7,932	17,699	53
16-Jul-18	19,776	33,148	15,452	27,058	16,027	15,133	26,944	23,172	20,043	27,544	18,587	9,640	7,797	9,520	11,747	20,051	9,322	3,492		17,791	
17-Jul-18	19,970	33,317	15,507	27,213	16,027	15,219	27,148	23,172	20,159	27,749	18,648	9,768	7,805	9,537	11,876	20,286	9,414	3,617		17,884	
18-Jul-18	20,013	33,508	15,534	27,476	16,092	15,277	27,227	23,283	20,228	27,863	18,648	9,895	7,915	9,587	12,005	20,493	9,482	3,693		17,974	
19-Jul-18	20,077	33,608	15,543	27,709	16,174	15,364	27,352	23,369	20,274	27,954	18,770	10,023	7,994	9,604	12,069	20,581	9,505	3,843		18,051	
20-Jul-18	20,153	33,654	15,580	27,926	16,223	15,407	27,384	23,542	20,297	28,022	18,770	10,108	8,018	9,604	12,101	20,655	9,550	3,843		18,108	
21-Jul-18	20,163	33,654	15,607	28,082	16,272	15,479	27,478	23,862	20,343	28,159	18,953	10,235	8,025	9,621	12,101	20,714	9,550	3,843		18,174	
22-Jul-18	20,163	33,654	15,625	28,159	16,288	15,479	27,525	24,257	20,389	28,318	19,014	10,362	8,120	9,704	12,165	20,788	9,550	3,944		18,238	
23-Jul-18	20,239	33,654	15,671	28,268	16,304	15,595	27,525	24,700	20,412	28,432	19,014	10,426	8,286	9,738	12,230	20,802	9,573	4,070		18,307	
24-Jul-18	20,325	33,700	15,680	28,361	16,386	15,624	27,541	25,082	20,412	28,477	19,014	10,490	8,609	9,755	12,262	20,817	9,573	4,120		18,369	
25-Jul-18	20,368	33,769	15,707	28,438	16,516	15,653	27,541	25,551	20,459	28,500	19,014	10,554	9,082	9,771	12,294	20,832	9,596	4,170		18,440	
26-Jul-18	20,411	33,853	15,707	28,531	16,533	15,696	27,572	25,748	20,528	28,591	19,075	10,596	9,184	9,805	12,455	20,847	9,642	4,170		18,494	
27-Jul-18	20,422	33,960	15,735	28,563	16,630	15,739	27,588	25,994	20,574	28,637	19,075	10,660	9,271	9,838	12,584	20,935	9,687	4,220		18,548	
28-Jul-18	20,433	34,021	15,744	28,609	16,647	15,739	27,604	26,192	20,620	28,705	19,136	10,702	9,531	9,855	12,616	21,009	9,710	4,245		18,595	
29-Jul-18	20,443	34,075	15,753	28,656	16,696	15,768	27,604	26,266	20,666	28,728	19,196	10,787	9,768	9,855	12,616	21,038	9,710	4,245		18,630	
30-Jul-18	20,486	34,167	15,789	28,764	16,728	15,783	27,667	26,364	20,689	28,751	19,257	10,830	9,870	9,888	12,713	21,127	9,710	4,245		18,673	

Cumulative Daily Run Sizes of Adult Nass River Coho Salmon (≥ 40 cm NFL) to Gitwinksihkw Fishwheels, 2000-2018.																			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	(94-17)	2018
9-Jul-18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	31	21	0	0	0
10-Jul-18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	62	21	0	0	0
11-Jul-18	-	-	-	-	-	19	-	-	-	-	-	-	-	30	-	-	62	21	0	0	10
12-Jul-18	-	-	-	32	-	39	-	-	16	32	-	-	-	30	-	-	62	42	0	0	10
13-Jul-18	-	-	-	32	16	39	-	-	33	32	-	-	-	30	-	-	92	42	0	0	10
14-Jul-18	-	-	33	63	16	39	-	-	33	64	-	-	-	119	-	-	123	42	0	0	20
15-Jul-18	-	-	33	127	32	39	29	-	49	64	47	-	-	119	-	23	154	84	27	30	27
16-Jul-18	-	-	33	190	65	39	29	-	66	64	71	-	-	238	-	45	246	105			50
17-Jul-18	-	-	66	190	113	96	72	-	99	159	95	-	-	565	19	113	370	189			90
18-Jul-18	25	-	66	190	161	116	173	-	99	222	142	239	26	891	37	227	585	231			100
19-Jul-18	51	-	66	317	210	154	288	-	165	318	284	342	38	1,337	74	294	739	357			200
20-Jul-18	51	-	66	412	403	193	447	25	329	477	332	512	64	1,723	148	317	1,016	588			300
21-Jul-18	101	-	265	508	500	193	562	25	379	699	474	649	103	2,110	333	385	1,416	945			400
22-Jul-18	127	-	563	698	629	251	634	25	461	1,048	616	820	115	2,912	500	521	2,002	1,366			600
23-Jul-18	152	-	629	1,301	742	771	778	25	692	1,557	711	1,195	205	3,536	870	634	2,340	1,660			800
24-Jul-18	202	-	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			1,000
25-Jul-18	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			1,300
26-Jul-18	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			1,600
27-Jul-18	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			2,000
28-Jul-18	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			2,500
29-Jul-18	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			3,100
30-Jul-18	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			3,800
31-Jul-18	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			4,800
1-Aug-18	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			5,800
2-Aug-18	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			7,200
3-Aug-18	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			9,100
4-Aug-18	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			11,300
5-Aug-18	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			13,500
6-Aug-18	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			15,600
7-Aug-18	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			17,700
8-Aug-18	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			19,800
9-Aug-18	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			22,000
10-Aug-18	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			24,500
11-Aug-18	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			27,600
12-Aug-18	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			30,400
13-Aug-18	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			33,100
14-Aug-18	43,452	38,963	35,142	38,327	32,957	21,970	29,195	20,737	34,684	78,338	51,538	21,754	35,666	67,689	45,029	15,630	61,863	53,808			35,700
15-Aug-18	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			38,600
16-Aug-18	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			41,600
17-Aug-18	45,982	49,778	60,150	46,957	39,248	32,589	37,582	25,643	39,279	96,399	61,320	24,384	42,676	76,782	62,814	21,814	77,537	61,351			44,500
18-Aug-18	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			47,100
19-Aug-18	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			49,600
20-Aug-18	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			52,100
21-Aug-18	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			54,400
22-Aug-18	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			56,800
23-Aug-18	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			58,800
24-Aug-18	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			60,900
25-Aug-18	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	103,436	91,316	32,143	111,440	79,924			62,800
26-Aug-18	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			64,800
27-Aug-18	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			66,700
28-Aug-18	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			68,400
29-Aug-18	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	99,441	36,447	118,861	93,182			70,200
30-Aug-18	60,736	74,084	114,834	72,974	57,364	78,264	52,338	42,342	77,521	172,231	79,723	50,987	60,476	114,281	101,014	37,308	120,123	96,880			72,600
31-Aug-18	63,520	76,857	124,804	73,703	57,622	80,480	53,116	43,432	80,073	177,886	80,315	54,983	61,335	115,619	102,994	37,852	121,201	99,149			74,600
1-Sep-18	65,013	78,397	134,542	74,528	57,993	83,005	53,534	44,448	82,379	182,620	80,599	57,613	62,014	117,253	103,864	38,509	122,895	101,418			76,200
2-Sep-18	66,405	79,970	141,862	75,036	58,380	84,778	53,995	45,290	82,824	185,511	80,765	60,276	62,745	118,649	105,326	39,437	125,605	104,233			77,600
3-Sep-18	67,240	81,494	150,705	75,988	58,654	86,763	54,730	46,306	83,631	188,116	81,120	62,189	63,321	119,600	107,621	40,887	127,729	107,196			79,100
4-Sep-18	67,898	82,532	158,654	76,844	58,848	88,169	54,730	47,050	84,059	191,039	81,191	63,316	63,937	120,6							

Nass Summer-run Steelhead Cumulative Daily Run Size Estimates to Gitwinksihlkw Fishwheels, 2000-2018.																		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	(94-17)	2018	
1-Jul-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2-Jul-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3-Jul-18	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	32	0	32
4-Jul-18	0	0	0	0	0	0	0	0	0	0	0	116	49	0	0	0	0	0	0	32	10	0
5-Jul-18	0	0	0	0	0	0	0	0	0	0	0	116	49	0	0	0	0	0	0	32	10	0
6-Jul-18	0	0	0	0	0	0	0	0	0	0	0	116	49	0	0	0	0	0	0	32	10	0
7-Jul-18	0	0	0	0	0	0	0	0	0	0	0	116	73	0	32	39	48	0	0	32	20	0
8-Jul-18	0	0	0	0	0	0	0	67	0	0	0	116	73	0	32	39	48	0	0	32	20	0
9-Jul-18	0	0	0	0	0	0	0	67	0	0	0	116	73	0	32	39	144	0	0	63	30	32
10-Jul-18	31	0	0	0	0	0	0	100	0	0	0	116	73	0	32	39	192	0	0	63	30	0
11-Jul-18	31	0	0	0	0	0	0	100	0	0	0	116	73	0	32	39	241	0	0	95	30	32
12-Jul-18	31	0	0	0	0	0	0	100	0	0	0	116	73	0	64	39	241	0	0	95	40	0
13-Jul-18	31	0	0	0	0	0	0	100	0	0	0	116	73	0	95	77	241	0	0	158	50	63
14-Jul-18	31	28	0	0	0	41	0	100	0	0	0	116	73	0	159	116	241	0	0	221	100	63
15-Jul-18	31	28	0	0	0	41	0	100	0	0	0	116	73	0	191	116	241	0	0	253	100	32
16-Jul-18	62	28	0	0	0	41	30	100	0	0	77	174	73	0	191	155	241	0	0		100	
17-Jul-18	155	57	52	0	0	41	30	100	0	0	77	174	73	0	191	232	241	0	0		100	
18-Jul-18	155	57	52	0	0	83	30	133	82	0	77	290	73	0	223	348	241	0	0		100	
19-Jul-18	155	57	52	0	18	83	30	133	123	0	153	407	73	0	223	348	241	0	0		100	
20-Jul-18	155	57	52	0	36	83	30	133	123	0	153	465	73	0	223	387	241	29	0		100	
21-Jul-18	155	57	52	0	54	83	59	133	123	0	307	465	73	0	254	387	241	58	0		100	
22-Jul-18	155	57	52	59	54	166	59	133	164	0	460	465	97	53	350	387	385	58	0		200	
23-Jul-18	186	57	104	59	54	249	59	133	246	51	537	639	97	105	572	387	385	58	0		200	
24-Jul-18	310	57	156	178	72	249	59	133	328	103	690	755	146	158	700	425	577	58	0		300	
25-Jul-18	310	85	208	415	72	290	89	133	492	103	690	871	170	264	891	425	625	115	0		300	
26-Jul-18	372	113	208	771	90	290	89	133	615	205	844	871	218	264	1,050	542	866	202	0		400	
27-Jul-18	372	170	259	831	180	332	89	133	738	308	1,074	1,103	243	316	1,209	580	1,684	259	0		500	
28-Jul-18	434	198	363	1,068	198	332	89	133	902	461	1,304	1,278	267	422	1,336	735	2,501	288	0		600	
29-Jul-18	465	283	571	1,365	270	332	148	133	984	667	1,381	1,394	267	686	1,431	774	3,175	288	0		700	
30-Jul-18	527	311	934	1,661	288	332	177	133	1,229	718	1,457	1,394	364	791	1,463	928	3,560	346	0		800	
31-Jul-18	682	396	1,297	1,958	324	373	236	200	1,434	718	1,688	1,452	412	844	1,590	1,006	4,185	375	0		1,000	
1-Aug-18	744	453	1,608	2,136	451	580	236	233	1,557	718	1,918	1,510	558	844	1,813	1,044	4,618	461	0		1,100	
2-Aug-18	837	934	2,024	2,789	559	663	266	233	1,762	718	2,148	1,568	728	844	2,258	1,044	5,676	663	0		1,300	
3-Aug-18	1,209	1,076	2,127	2,907	649	705	295	267	1,967	923	2,455	1,742	946	844	2,926	1,160	6,446	836	0		1,500	
4-Aug-18	1,829	1,218	2,335	3,085	793	705	325	366	2,008	1,333	2,455	1,858	1,116	844	3,180	1,508	7,119	980	0		1,600	
5-Aug-18	2,449	1,218	2,750	3,441	901	746	384	433	2,377	1,743	2,761	1,975	1,189	844	3,530	1,741	7,552	1,153	0		1,800	
6-Aug-18	2,759	1,246	2,854	3,619	991	871	561	566	2,500	1,897	2,838	2,033	1,358	896	4,007	1,934	8,707	1,210	0		2,000	
7-Aug-18	3,162	1,359	2,906	3,916	1,009	912	708	633	2,746	2,718	2,992	2,149	1,552	896	4,262	2,205	9,669	1,297	0		2,200	
8-Aug-18	3,409	1,586	3,165	4,272	1,118	1,078	797	666	2,869	3,230	2,992	2,555	1,892	1,002	4,580	2,553	10,005	1,441	0		2,400	
9-Aug-18	4,122	2,124	3,321	4,865	1,172	1,161	826	733	2,951	4,102	3,375	2,788	2,062	1,213	4,771	2,785	10,005	1,470	0		2,600	
10-Aug-18	4,649	2,322	3,321	5,459	1,460	1,244	944	833	3,033	4,564	3,835	3,020	2,329	1,424	5,184	2,978	10,438	1,671	0		2,900	
11-Aug-18	5,331	2,633	3,373	6,052	1,658	1,285	1,003	900	3,197	4,717	4,449	3,543	2,692	1,529	5,248	3,172	10,967	1,729	0		3,100	
12-Aug-18	5,703	3,086	3,580	6,527	1,766	1,368	1,092	1,099	3,279	4,717	4,679	3,833	3,274	1,635	5,343	3,288	11,208	1,873	0		3,300	
13-Aug-18	6,013	3,370	3,840	6,942	1,911	1,493	1,210	1,233	3,361	5,743	4,909	4,065	3,541	1,740	5,502	3,288	11,689	2,305	0		3,600	
14-Aug-18	6,385	3,483	3,943	7,476	2,235	1,617	1,269	1,333	3,361	6,717	5,830	4,356	4,026	1,740	5,725	3,558	12,218	2,363	0		3,800	
15-Aug-18	6,664	3,766	3,943	7,773	2,451	1,617	1,328	1,533	3,443	7,538	6,213	4,530	4,730	1,740	6,011	3,674	12,988	2,536	0		4,000	
16-Aug-18	7,005	3,964	4,358	8,010	2,487	1,658	1,417	1,832	3,565	7,948	6,827	4,588	5,239	1,793	6,234	4,023	13,228	3,026	0		4,300	
17-Aug-18	7,160	4,332	5,137	8,485	2,632	1,658	1,564	2,066	3,729	8,614	7,210	4,588	5,724	1,846	6,520	4,680	13,709	3,141	0		4,600	
18-Aug-18	7,377	4,446	5,759	8,603	2,758	1,949	1,682	2,199	3,852	9,743	7,441	4,588	6,137	2,109	6,870	4,990	14,094	3,141	0		4,800	
19-Aug-18	7,563	4,785	6,071	8,722	2,830	1,990	1,918	2,265	4,262	10,255	7,594	4,704	6,670	2,109	7,379	5,222	14,960	3,141	0		5,100	
20-Aug-18	7,873	4,984	6,330	9,256	2,920	1,990	2,095	2,299	4,959	10,563	7,747	4,820	7,010	2,215	7,665	5,299	15,489	3,170	0		5,300	
21-Aug-18	8,090	5,380	6,797	9,909	3,028	1,990	2,361	2,465	5,287	10,666	8,131	4,820	7,398	2,215	8,460	5,802	15,585	3,314	0		5,600	
22-Aug-18	8,121	5,663	7,108	10,383	3,244	1,990	2,479	2,532	6,065	11,383	8,438	4,820	7,689	2,478	9,128	6,769	15,826	3,602	0		5,900	
23-Aug-18	8,121	5,805	7,264	10,680	3,371	2,405	2,656	2,732	6,721	12,409	8,514	4,820	7,980	2,847	10,209	7,272	16,259	3,689	0		6,200	
24-Aug-18	8,121	6,314	7,264	11,451	3,425	2,861	2,892	2,865	7,500	12,768	8,975	4,937	8,271	3,269	11,386	7,658	16,788	3,919	0		6,600	
25-Aug-18	8,245	6,682	7,316	11,985	3,479	3,234	3,040	3,032	7,500	13,434	9,282	5,111	8,538	3,375	12,117	8,045	17,124	4,323	0		6,800	
26-Aug-18	8,276	7,079	7,731	12,282	3,641	3,358	3,128	3,165	7,500	13,793	9,588	5,227	8,683	3,480	13,167	8,896	17,221	4,582	0		7,100	
27-Aug-18	8,338	7,079	8,042	12,757	3,803	3,773	3,158	3,232	7,705	14,101	10,355	6,156	8,950	3,691	13,708	9,824	17,317	4,813	0		7,400	
28-Aug-18	8,369	7,079	8,094	13,172	3,875	3,939	3,305	3,332	8,360	14,563	10,509	7,318	9,120	3,902	14,185	10,134	17,365	5,187	0		7,700	
29-Aug-18	8,834	7,277	8,146	13,291	3,893	4,188	3,482	3,432	8,975	15,127	10,892	8,247	9,654	4,166	15,043	10,173	17,509	5,389	0		8,000	
30-Aug-18	9,516	7,673	8,509	13,669	3,947	4,519	3,482	3,565	9,795	15,998	10,892	9,234	9,896	4,429	15,393	10,250	17,654	5,879	0		8,400	
31-Aug-18	10,290	8,325	9,287	13,647	4,037	4,644	3,600	3,831	10,287	17,178	11,123	10,512	10,211	4,482	15,743	10,443	17,942	6,138	0		8,700	
1-Sep-18	10,755	8,806	9,599	13,765	4,056	4,892	3,777	4														



2018 Nass Fishwheel Catches

	GW		GW Total	GH				GH Total	Grand Total
Data	FW1	FW2		FW3	FW4	FW5	FW6		
<b>Chin-adult catch</b>	<b>78</b>	<b>186</b>	<b>264</b>	<b>106</b>	<b>134</b>	<b>176</b>	<b>39</b>	<b>455</b>	<b>719</b>
Chin-tagged	75	177	252	102	124	157	36	419	671
Chin-recaps	5	6	11	4	9	25	4	42	53
Chin-Jacks	21	65	86	41	61	55	41	198	284
Sum of CH Harv	0	0	0	0	0	0	0	0	0
<b>Sockeye-adult catch</b>	<b>747</b>	<b>2,585</b>	<b>3,332</b>	<b>633</b>	<b>770</b>	<b>1,037</b>	<b>421</b>	<b>2,861</b>	<b>6,193</b>
Sockeye-tagged	561	1,300	1,861	0	0	0	0	0	1,861
Sum of sk-radio	108	224	332	0	0	0	0	0	332
Sockeye-recaps	32	48	80	18	22	43	19	102	182
Sockeye_jacks	360	966	1326	76	93	134	71	374	1700
Sum of sk_harvest_total	0	0	0	0	0	0	0	0	0
<b>Coho-adult catch</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>
Coho-tagged	0	1	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
<b>Steel-adult catch</b>	<b>2</b>	<b>6</b>	<b>8</b>	<b>2</b>	<b>2</b>	<b>4</b>	<b>3</b>	<b>11</b>	<b>19</b>
Steel-Adipose marked	2	6	8	1	0	2	1	4	12
Steel-unmarked	0	0	0	1	2	2	2	7	7
Steel-recap-total	0	0	0	0	0	0	0	0	0
<b>Pacific Lamprey-catch</b>	<b>20</b>	<b>45</b>	<b>65</b>	<b>17</b>	<b>108</b>	<b>107</b>	<b>55</b>	<b>287</b>	<b>352</b>
Lamprey-tagged	20	43	63	15	89	90	42	236	299
Lamprey-released	0	2	2	2	19	17	13	51	53
Lamprey-recaps	0	0	0	0	6	2	1	9	9
River Lamprey	0	0	0	0	0	2	0	2	2
<b>Pink-adult-catch</b>	<b>6</b>	<b>14</b>	<b>20</b>	<b>0</b>	<b>2</b>	<b>2</b>	<b>4</b>	<b>8</b>	<b>28</b>
<b>Chum-adult-catch</b>	<b>0</b>	<b>3</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3</b>
Chum-tagged	0	1	1	0	0	0	0	0	1
Chum-punched	0	0	0	0	0	0	0	0	0
Chum-recaps	0	0	0	0	0	0	0	0	0
<b>Whitefish (Round)</b>	<b>4</b>	<b>3</b>	<b>7</b>	<b>7</b>	<b>9</b>	<b>20</b>	<b>25</b>	<b>61</b>	<b>68</b>
<b>Rainbow Trout</b>	<b>10</b>	<b>3</b>	<b>13</b>	<b>8</b>	<b>5</b>	<b>11</b>	<b>19</b>	<b>43</b>	<b>56</b>
<b>Peamouth Chubs</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>12</b>	<b>10</b>	<b>25</b>	<b>25</b>
<b>Pikeminnow</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>12</b>	<b>7</b>	<b>23</b>	<b>23</b>
<b>Redside Shiners</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>5</b>	<b>1</b>	<b>7</b>	<b>7</b>	<b>20</b>	<b>21</b>
<b>Dolly Varden</b>	<b>17</b>	<b>2</b>	<b>19</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>2</b>	<b>21</b>
<b>Sculpin</b>	<b>2</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>3</b>	<b>10</b>	<b>0</b>	<b>13</b>	<b>15</b>
<b>Cutthroat Trout</b>	<b>8</b>	<b>2</b>	<b>10</b>	<b>1</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>13</b>
<b>Seals</b>	<b>0</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>3</b>
<b>Suckers</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>3</b>	<b>3</b>

Chinook (all FWs)																					
Week Ending (Sat)	Stat wk	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	00-17 Cum Mean	2018
26-May	21													3	-	-	6	3			2
2-Jun	22	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-		0
9-Jun	23	-	40	-	-	-	5	9	-	6	-	44	10	15	14	31	12	24	13		12
16-Jun	24	15	235	-	80	60	69	10	2	82	7	112	86	68	71	234	295	100	37		87
23-Jun	25	785	454	499	2,686	424	588	243	17	441	300	492	340	80	124	465	937	369	122		520
30-Jun	26	1,631	1,668	1,519	3,856	512	2,289	3,214	1,021	1,209	4,099	794	614	167	807	828	1,689	791	214		1,496
7-Jul	27	2,006	5,888	5,711	4,324	1,877	2,891	5,904	2,763	1,394	6,010	895	1,439	2,349	1,774	1,223	2,817	994	382		2,813
14-Jul	28	3,409	11,031	6,425	5,048	2,892	3,780	7,494	5,509	3,857	6,149	990	1,597	2,586	1,868	1,510	3,020	1,185	514		3,826
21-Jul	29	4,449	11,432	6,555	5,458	3,054	3,902	8,719	6,202	4,187	6,614	1,041	1,671	3,067	1,913	1,582	3,139	1,217	588		4,155
28-Jul	30	4,591	11,622	6,617	5,654	3,128	3,972	8,798	8,819	4,244	6,880	1,071	1,743	3,594	1,942	1,625	3,233	1,278	609		4,412
4-Aug	31	4,780	11,951	6,723	5,739	3,197	4,021	8,980	9,242	4,273	6,921	1,090	1,763	3,895	1,949	1,647	3,292	1,328	647		4,524
11-Aug	32	4,928	12,029	6,751	5,765	3,256	4,045	9,038	9,345	4,294	7,067	1,112	1,769	4,003	1,961	1,660	3,328	1,351	657		4,576
18-Aug	33	4,982	12,075	6,768	5,782	3,287	4,057	9,062	9,393	4,303	7,106	1,122	1,771	4,035	1,968	1,666	3,355	1,366	669		4,598
25-Aug	34	4,987	12,095	6,778	5,794	3,305	4,077	9,077	9,419	4,316	7,119	1,129	1,772	4,053	1,974	1,680	3,380	1,381	678		4,612
1-Sep	35	4,998	12,100	6,779	5,801	3,314	4,098	9,082	9,429	4,327	7,128	1,132	1,784	4,058	1,979	1,686	3,393	1,385	693		4,620
8-Sep	36	5,000	12,104	6,784	5,802	3,314	4,103	9,089	9,434	4,331	7,131	1,137	1,792	4,059	1,981	1,691	3,397	1,387	696		4,624
15-Sep	37	5,002	12,106	6,785	5,802	3,314	4,111	9,089	9,438	4,331	7,132	1,138	1,794	4,059	1,981	1,693	3,397	1,389	696		4,625
22-Sep	38	5,002	12,106	6,785	5,802	3,314	4,111	9,089	9,438	4,331	7,132	1,138	1,794	4,059	1,981	1,693	3,397	1,389	696		4,625
<b>Grand Total</b>		<b>5,002</b>	<b>12,106</b>	<b>6,785</b>	<b>5,802</b>	<b>3,314</b>	<b>4,111</b>	<b>9,089</b>	<b>9,438</b>	<b>4,331</b>	<b>7,132</b>	<b>1,138</b>	<b>1,794</b>	<b>4,059</b>	<b>1,981</b>	<b>1,693</b>	<b>3,397</b>	<b>1,389</b>	<b>696</b>		<b>4,625</b>
Sockeye (all Fws)																					
Week Ending (Sat)	Stat wk	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	00-17 Cum Mean	2018
26-May	21													45	-	-	12	4			12
2-Jun	22	-	-	-	-	-	-	-	-	-	5	3	-	45	-	-	-	-	-		3
9-Jun	23	-	45	-	-	-	7	6	-	25	5	23	21	359	62	131	30	24	20		42
16-Jun	24	20	219	-	372	169	158	12	19	168	51	82	385	829	693	1,435	468	113	68		292
23-Jun	25	1,248	487	3,799	2,692	934	1,634	588	104	1,755	1,673	983	1,499	1,122	2,273	5,363	2,673	455	488		1,654
30-Jun	26	3,232	2,335	7,893	7,764	2,545	5,221	3,303	2,402	6,183	5,646	2,593	3,862	3,640	17,477	11,401	7,017	1,776	1,779		1755
7-Jul	27	8,400	4,632	27,092	12,251	9,333	9,541	10,992	4,463	8,931	10,296	4,998	6,596	20,109	25,446	14,988	13,484	3,474	5,367		11,133
14-Jul	28	16,870	9,040	33,521	17,398	18,102	14,766	18,141	6,767	18,858	13,783	9,556	10,235	22,987	26,950	17,594	19,846	6,035	9,393		16,102
21-Jul	29	19,727	13,422	37,799	23,090	22,235	18,923	22,781	10,902	23,572	18,776	11,843	17,416	30,501	29,312	20,931	23,941	9,165	12,542		20,382
28-Jul	30	21,631	20,236	43,481	31,995	26,017	23,283	28,016	20,836	26,866	22,937	14,744	26,167	42,668	32,711	24,717	32,850	14,689	15,949		26,100
4-Aug	31	25,052	27,515	50,620	39,754	29,830	27,258	36,153	28,214	28,879	27,547	18,244	31,057	52,768	35,032	27,706	43,707	20,965	21,905		31,789
11-Aug	32	29,030	30,412	53,809	43,283	36,054	30,479	40,532	33,823	30,959	37,438	21,629	32,745	58,536	37,127	30,262	52,545	26,477	28,651		36,322
18-Aug	33	30,150	31,522	56,209	45,687	39,759	32,677	44,071	36,272	32,256	40,907	24,007	33,640	61,066	38,267	33,159	60,384	31,614	33,717		39,187
25-Aug	34	30,511	32,022	57,586	47,162	42,085	36,305	47,463	37,595	33,768	42,230	24,896	34,011	62,047	38,841	35,649	65,480	34,899	38,008		41,142
1-Sep	35	31,610	32,508	58,056	47,501	43,151	39,681	49,811	38,292	34,594	43,038	25,270	37,042	62,292	39,080	37,490	68,776	37,015	42,032		42,624
8-Sep	36	32,371	32,752	58,700	47,556	43,676	39,994	50,769	38,680	34,702	43,333	25,523	37,993	62,365	39,173	38,252	70,398	38,619	44,126		43,277
15-Sep	37	33,191	32,821	58,728	47,556	43,782	40,271	50,769	38,934	34,702	43,426	25,692	38,048	62,385	39,184	38,345	70,737	38,677	44,152		43,411
22-Sep	38	33,191	32,821	58,728	47,556	43,782	40,271	50,769	38,934	34,702	43,426	25,692	38,048	62,385	39,184	38,345	70,737	38,677	44,152		43,411
<b>Grand Total</b>		<b>33,191</b>	<b>32,821</b>	<b>58,728</b>	<b>47,556</b>	<b>43,782</b>	<b>40,271</b>	<b>50,769</b>	<b>38,934</b>	<b>34,702</b>	<b>43,426</b>	<b>25,692</b>	<b>38,048</b>	<b>62,385</b>	<b>39,184</b>	<b>38,345</b>	<b>70,737</b>	<b>38,677</b>	<b>44,152</b>		<b>6003</b>
Coho (all FWs)																					
Week Ending (Sat)	Stat wk	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	00-17 Cum Mean	2018
26-May	21													-	-	-	-	-	-		0
2-Jun	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		0
9-Jun	23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		0
16-Jun	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		0
23-Jun	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		0
30-Jun	26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		0
7-Jul	27	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-		0
14-Jul	28	-	-	1	2	1	2	-	-	2	5	1	2	-	4	-	1	-	-		0
21-Jul	29	4	-	11	25	49	19	50	1	31	37	39	28	8	116	21	52	52	74		34
28-Jul	30	36	17	79	367	299	273	231	103	281	369	190	144	81	755	360	181	430	336		252
4-Aug	31	817	690	720	1,317	1,232	1,147	1,489	826	1,163	1,577	1,323	881	899	2,589	2,264	728	2,035	3,265		1,387
11-Aug	32	2,811	4,283	2,305	2,960	4,712	2,766	3,591	2,597	3,540	5,831	4,592	1,702	4,482	6,109	4,952	2,144	4,694	6,688		3,931
18-Aug	33	3,974	10,044	6,020	5,252	7,388	4,699	6,509	5,025	5,395	9,542	8,755	2,191	9,470	9,162	8,583	3,720	9,186	10,349		6,959
25-Aug	34	4,555	13,106	9,005	8,420	10,234	9,147	8,309	7,575	9,113	14,056	10,598	2,415	12,580	11,908	12,819	5,017	12,844	15,013		9,817
1-Sep	35	6,922	17,261	10,996	9,333	11,324	13,631	9,350	9,542	13,772	18,096	11,665	4,810	14,204	13,570	15,202	5,823	14,392	20,175		12,226
8-Sep	36	7,758	22,074	14,455	9,460	11,729	14,103	9,671	10,932	14,640	19,845	12,319	5,480	15,185	14,337	16,756	6,558	15,661	22,877		13,547
15-Sep	37	8,349	22,705	14,556	9,460	11,788	14,462	9,671	11,585	14,640	20,270	12,804	5,672	15,608	14,555	17,137	6,616	15,690	22,908		13,804
22-Sep	38	8,349	22,705	14,556	9,460	11,788	14,462	9,671	11,585	14,640	20,270	12,804	5,672	15,608	14,555	17,137	6,616	15,690	22,908		13,804
<b>Grand Total</b>		<b>8,349</b>	<b>22,705</b>	<b>14,556</b>	<b>9,460</b>	<b>11,788</b>	<b>14,462</b>	<b>9,671</b>	<b>11,585</b>	<b>14,640</b>	<b>20,270</b>	<b>12,804</b>	<b>5,672</b>	<b>15,608</b>	<b>14,555</b>	<b>17,137</b>	<b>6,616</b>	<b>15,690</b>	<b>22,908</b>		<b>13,804</b>

Steelhead (all FWs)																					
Week Ending (Sat)	Stat wk	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	00-17 Cum Mean	2018
26-May	21													0	0	0	2	1		1	
2-Jun	22	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	0
9-Jun	23	-	3	-	-	-	2	1	-	2	-	11	-	6	3	5	7	1	2	2	0
16-Jun	24	-	6	-	-	2	4	2	-	5	1	13	11	11	6	8	20	2	6	5	2
23-Jun	25	1	9	-	-	3	5	3	-	6	9	15	18	11	7	9	21	4	12	7	4
30-Jun	26	2	10	2	-	3	8	6	3	6	10	16	22	14	7	10	22	4	13	9	5
7-Jul	27	2	10	4	1	4	8	6	3	6	10	16	22	18	7	12	24	5	14	10	7
14-Jul	28	4	11	6	1	4	10	6	6	6	10	16	27	18	7	17	26	15	15	11	17
21-Jul	29	10	13	10	2	8	12	10	7	10	10	23	33	19	10	25	39	17	19	15	
28-Jul	30	22	19	17	24	20	23	11	7	42	22	47	57	27	30	78	57	91	39	35	
4-Aug	31	93	90	115	77	72	57	33	27	109	40	103	91	77	57	174	112	321	102	97	
11-Aug	32	294	236	255	182	198	120	77	91	195	216	216	148	199	151	371	243	487	190	215	
18-Aug	33	473	452	388	284	333	155	176	213	245	571	479	198	555	226	497	377	668	356	369	
25-Aug	34	539	636	645	441	447	332	309	354	441	907	643	215	854	378	949	526	861	520	555	
1-Sep	35	826	974	695	559	606	668	410	515	708	1,309	838	664	1,134	505	1,287	650	960	761	782	
8-Sep	36	1,034	1,339	1,039	583	653	692	466	653	844	1,627	982	903	1,430	594	1,440	759	1,067	976	949	
15-Sep	37	1,198	1,435	1,100	583	656	714	466	774	844	1,667	1,180	960	1,525	612	1,472	778	1,070	982	1,001	
22-Sep	38	1,198	1,435	1,100	583	656	714	466	774	844	1,667	1,180	960	1,525	612	1,472	778	1,070	982	1,001	
		<b>1,198</b>	<b>1,435</b>	<b>1,100</b>	<b>583</b>	<b>656</b>	<b>714</b>	<b>466</b>	<b>774</b>	<b>844</b>	<b>1,667</b>	<b>1,180</b>	<b>960</b>	<b>1,525</b>	<b>612</b>	<b>1,472</b>	<b>778</b>	<b>1,070</b>	<b>982</b>	<b>1,001</b>	<b>19</b>

Pinks (all FWs)																					
Week Ending (Sat)	Stat wk	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	MEAN ODD YR (93-15)	2018
26-May	21																				
2-Jun	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
9-Jun	23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
16-Jun	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
23-Jun	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
30-Jun	26	-	-	-	3	-	2	-	-	-	-	-	-	-	-	-	5	-	-	-	1
7-Jul	27	-	2	-	19	8	17	3	-	-	9	2	2	-	45	1	76	2	7	20	1
14-Jul	28	13	43	17	334	114	156	12	1	11	34	15	46	-	237	28	235	70	62	138	19
21-Jul	29	68	97	95	4,573	741	2,141	131	3	58	885	69	434	1	1,102	248	687	273	568	1,020	
28-Jul	30	179	1,208	441	16,373	4,206	6,769	284	622	166	4,220	220	2,010	46	5,581	2,873	1,512	2,025	2,907	3,863	
4-Aug	31	1,207	11,139	2,523	23,566	11,400	12,094	1,118	5,643	446	8,014	539	5,781	595	10,236	6,914	2,715	6,337	11,662	8,422	
11-Aug	32	5,121	19,036	6,674	27,813	25,444	15,229	1,785	11,391	938	25,157	1,908	8,167	2,001	18,065	10,142	4,581	9,242	19,059	13,932	
18-Aug	33	7,879	24,858	10,927	30,003	32,033	16,678	2,301	15,167	1,199	33,928	3,402	8,776	4,834	21,126	12,327	5,632	11,441	24,488	17,406	
25-Aug	34	8,695	28,565	13,074	32,614	34,872	18,603	2,637	16,740	1,554	38,563	4,103	8,927	6,452	23,329	17,804	6,195	12,580	29,533	19,898	
1-Sep	35	9,755	32,995	13,816	33,375	35,467	19,576	2,783	17,378	1,849	41,143	4,402	10,061	7,201	24,364	21,706	6,385	12,911	34,932	21,728	
8-Sep	36	10,125	40,298	15,834	33,560	35,596	19,719	2,817	17,599	1,932	42,012	4,530	10,449	7,599	24,725	23,584	6,467	13,191	37,705	22,943	
15-Sep	37	10,194	42,508	15,893	33,560	35,605	19,781	2,817	17,662	1,932	42,120	4,610	10,637	7,694	24,801	24,038	6,476	13,197	37,748	23,253	
22-Sep	38	10,194	42,508	15,893	33,560	35,605	19,781	2,817	17,662	1,932	42,120	4,610	10,637	7,694	24,801	24,038	6,476	13,197	37,748	23,253	
		<b>10,194</b>	<b>42,508</b>	<b>15,893</b>	<b>33,560</b>	<b>35,605</b>	<b>19,781</b>	<b>2,817</b>	<b>17,662</b>	<b>1,932</b>	<b>42,120</b>	<b>4,610</b>	<b>10,637</b>	<b>7,694</b>	<b>24,801</b>	<b>24,038</b>	<b>6,476</b>	<b>13,197</b>	<b>37,748</b>	<b>23,280</b>	<b>28</b>

Chum (all FWs)																					
Week Ending (Sat)	Stat wk	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	00-17 Cum Mean	2018
26-May	21													0	0	0	0	0			
2-Jun	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
9-Jun	23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
16-Jun	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
23-Jun	25	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	0
30-Jun	26	-	-	-	-	-	-	-	-	-	1	2	-	-	1	-	1	-	-	0	3
7-Jul	27	-	-	5	-	-	-	1	-	6	1	2	1	1	1	1	3	-	1	1	3
14-Jul	28	1	1	5	1	1	1	2	-	6	1	2	3	1	3	2	4	-	2	2	3
21-Jul	29	1	4	6	6	3	4	5	-	11	1	9	7	2	4	2	5	-	2	4	
28-Jul	30	2	8	10	32	12	20	6	7	17	11	15	17	3	7	11	7	14	7	11	
4-Aug	31	11	19	15	54	24	54	23	22	22	13	23	41	13	9	17	16	33	26	24	
11-Aug	32	24	35	17	84	64	73	40	53	27	23	28	59	15	14	28	29	51	30	39	
18-Aug	33	43	62	25	99	99	80	67	75	28	45	45	72	33	15	33	44	102	34	56	
25-Aug	34	64	87	34	141	140	99	101	91	35	58	61	77	55	23	49	81	132	39	76	
1-Sep	35	128	103	39	169	215	134	127	107	49	83	67	124	80	45	61	103	155	47	102	
8-Sep	36	182	147	52	175	239	139	139	121	52	104	71	144	99	51	79	137	224	68	124	
15-Sep	37	240	162	54	175	242	144	139	132	52	108	75	156	106	52	83	141	228	68	131	
22-Sep	38	240	162	54	175	242	144	139	132	52	108	75	156	106	52	83	141	228	68	131	
<b>Grand Total</b>		<b>240</b>	<b>162</b>	<b>54</b>	<b>175</b>	<b>242</b>	<b>144</b>	<b>139</b>	<b>132</b>	<b>52</b>	<b>108</b>	<b>75</b>	<b>156</b>	<b>106</b>	<b>52</b>	<b>83</b>	<b>141</b>	<b>228</b>	<b>68</b>	<b>131</b>	<b>3</b>