PACIFIC SALMON COMMISSION
TRANSBOUNDARY TECHNICAL COMMITTEE REPORT

FINAL ESTIMATES OF TRANSBOUNDARY RIVER
SALMON PRODUCTION, HARVEST AND ESCAPEMENT AND A REVIEW OF JOINT ENHANCEMENT ACTIVITIES IN 2018

REPORT TCTR (21) -02

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## ACRONYMS

| ADF\&G | Alaska Department of Fish and Game |
| :--- | :--- |
| AC | Allowable Catch |
| AF | Aboriginal Fishery |
| BLC | Base Level Catch |
| CAFN | Champagne Aishihik First Nation |
| CCPH | Cumulative Catch per Hour |
| CPUE | Catch per unit effort |
| CWT | Coded Wire Tag |
| DFO | Department of Fisheries and Oceans (Canada) |
| DIPAC | Douglas Island Pink and Chum (Private Hatchery) |
| ESSR | Excess Salmon to Spawning Requirement (surplus fishery license) |
| FBD | Fish per boat day |
| GSI | Genetic Stock Identification |
| IHNV | Infectious Hematopoietic Necrosis (a virus which infects sockeye salmon) |
| LCM | Latent Class Model |
| MEF | Mid Eye Fork (fish length measurement) |
| MR | Mark-Recapture |
| MSY | Maximum Sustained Yield |
| POH | Post-Orbital-Hyperal (fish length measurement) |
| PSC | Pacific Salmon Commission |
| PST | Pacific Salmon Treaty |
| SCMM | Stikine Chinook Management Model |
| SHA | Special Harvest Area |
| SMM | Stikine Management Model |
| SPA | Scale Pattern Analysis |
| SW | Statistical Week |
| TAC | Total Allowable Catch |
| TMR | Thermal Mark Recovery |
| TRTFN | Taku River Tlingit First Nation |
| TBR | Transboundary River |
| TTC | Transboundary Technical Committee |
| YSC | Yukon Salmon Committee |
|  |  |

## CALENDAR OF STATISTICAL WEEKS

| SW | Date |  | SW | Date |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Begin | End |  | Begin | End |
| 1 | 1-Jan | 6-Jan | 28 | 8-Jul | 14-Jul |
| 2 | 7-Jan | 13-Jan | 29 | 15-Jul | 21-Jul |
| 3 | 14-Jan | 20-Jan | 30 | 22-Jul | 28-Jul |
| 4 | 21-Jan | 27-Jan | 31 | 29-Jul | 4-Aug |
| 5 | 28-Jan | 3-Feb | 32 | 5-Aug | 11-Aug |
| 6 | 4-Feb | 10-Feb | 33 | 12-Aug | 18-Aug |
| 7 | 11-Feb | 17-Feb | 34 | 19-Aug | 25-Aug |
| 8 | $18-\mathrm{Feb}$ | 24-Feb | 35 | 26-Aug | 1-Sep |
| 9 | 25-Feb | 3-Mar | 36 | 2-Sep | 8-Sep |
| 10 | 4-Mar | 10-Mar | 37 | 9-Sep | 15-Sep |
| 11 | 11-Mar | 17-Mar | 38 | 16-Sep | 22-Sep |
| 12 | 18-Mar | 24-Mar | 39 | 23-Sep | 29-Sep |
| 13 | 25-Mar | 31-Mar | 40 | 30-Sep | 6-Oct |
| 14 | 1-Apr | 7-Apr | 41 | 7-Oct | 13-Oct |
| 15 | 8-Apr | 14-Apr | 42 | 14-Oct | 20-Oct |
| 16 | 15-Apr | 21-Apr | 43 | 21-Oct | 27-Oct |
| 17 | 22-Apr | 28-Apr | 44 | 28-Oct | 3-Nov |
| 18 | 29-Apr | 5-May | 45 | 4-Nov | 10-Nov |
| 19 | 6-May | 12-May | 46 | 11-Nov | 17-Nov |
| 20 | 13-May | 19-May | 47 | 18-Nov | 24-Nov |
| 21 | 20-May | 26-May | 48 | 25-Nov | 1-Dec |
| 22 | 27-May | 2-Jun | 49 | 2-Dec | 8 -Dec |
| 23 | 3-Jun | 9-Jun | 50 | 9-Dec | 15-Dec |
| 24 | 10-Jun | 16-Jun | 51 | 16-Dec | 22-Dec |
| 25 | 17-Jun | 23-Jun | 52 | 23-Dec | 29-Dec |
| 26 | 24-Jun | 30-Jun | 53 | 30-Dec | 31-Dec |
| 27 | 1-Jul | 7-Jul |  |  |  |

## EXECUTIVE SUMMARY

Final estimates of harvests and escapements of Pacific salmon returning to the transboundary Stikine, Taku, and Alsek rivers in 2018 are presented and compared with historical patterns. Average, unless defined otherwise, refers to the most recent 10-year average (2008-2017). Relevant information pertaining to the management of appropriate U.S. and Canadian fisheries is presented and the use of inseason management models is discussed. Preliminary results from TBR sockeye salmon Oncorhynchus nerka enhancement projects are also reviewed.

## Stikine River

The postseason estimate of the 2018 Stikine River sockeye salmon terminal run was 64,500 fish, of which approximately 33,100 fish were harvested in various fisheries including assessment/test fisheries. An estimated 31,500 Stikine River fish escaped to spawn; 1,900 fish were removed for broodstock, and an estimated 1,100 fish migrated to the barrier in the Tuya River and were not harvested. The terminal run was below average and the harvest was below average (even when Tuya was excluded). The Tahltan Lake sockeye salmon total weir count of 16,600 fish was below the goal range of 18,000 to 30,000 fish. The estimated spawning escapement of 13,800 mainstem Stikine River sockeye salmon was below the goal range of 20,000 to 40,000 fish. The estimated U.S. commercial harvest of Stikine River sockeye salmon in Districts 106 and 108, including the Stikine River subsistence fishery, was 9,000 fish. The sockeye salmon harvest in the Canadian inriver commercial was 16,900 fish and the AF harvest was 5,400 fish. The inriver test fisheries harvested 1,300 sockeye salmon. Weekly inseason run projections from the SMM ranged from 118,600 to 125,300 sockeye salmon; the final inseason model prediction was 123,000 fish, with a TAC of 65,000 fish. The postseason terminal run estimate was 64,500 fish and an AC estimate of 6,700 Stikine River sockeye salmon for each country, Canada harvested $320 \%$ and the U.S. harvested $126 \%$ of their respective TACs.

The estimated 2018 Stikine River large Chinook salmon terminal run was 8,810 fish, above border run was 8,770 fish, and spawning escapement was 8,360 fish; below both the escapement goal target of 17,400 fish and the escapement goal range 14,000 to 28,000 fish. The run was one of the lowest on record and the harvests were well below average. The Little Tahltan River large Chinook salmon escapement of 450 fish was well below the Canadian escapement target of 3,300 fish and below the lower bound of the Canadian target range of 2,700 to 5,300 fish. The estimated incidental U.S. commercial harvest of Stikine River Chinook salmon in Districts 108 gillnet, test, troll, subsistence, and sport fisheries was 40 large fish.

The 2018 run size of Stikine River coho salmon cannot be quantified. The Canadian inriver commercial harvest was 3,800 coho salmon. The U.S. mixed stock coho salmon harvest in District 106 was 112,000 fish ( $31 \%$ Alaska hatchery) and District 108 was 8,800 fish ( $33 \%$ Alaska hatchery).

## Taku River

The estimate of the 2018 Taku River sockeye salmon terminal run is 164,400 fish unadjusted and 143,900 fish adjusted; 159,700 wild fish unadjusted and 139,100 wild fish adjusted; and 4,800 hatchery fish. The U.S. harvested 26,000 wild fish, Canada harvested 17,000 wild fish, and the estimated above border spawning escapement was 116,700 unadjusted and 96,100 adjusted wild sockeye salmon. The terminal run size and wild fish escapement was below average and above the goal range of 71,000 to 80,000 fish. The U.S. and Canada harvested an estimated $38 \%$ ( $50 \%$ adjusted) and $101 \%$ ( $130 \%$ adjusted) of their respective ACs calculated using an $80 \% / 20 \%$ U.S./Canada harvest sharing split based on enhanced fish production.

The estimated 2018 Taku River large Chinook salmon terminal run was 7,440 fish, above border run was 7,390 fish, and spawning escapement was 7,270 fish; below both the escapement point goal of 25,500 fish and the escapement goal range 19,000 to 36,000 fish. The run was the lowest on record and the harvests were well below average. The total harvest of large Chinook salmon in the Canadian commercial fishery in the Taku River was 0 fish, due to the nonretention license requirement and the AF harvest was 10 fish. The estimated incidental U.S. commercial harvest of Taku River Chinook salmon in Districts 111 gillnet, troll, personal use, and sport fisheries was 50 large fish.

The estimated above border run of Taku River coho salmon in 2018 is 60,700 fish, which was $65 \%$ of average. The Canadian inriver commercial harvest was 9,500 coho salmon. After all Canadian harvests are subtracted from the above border run the above border spawning escapement is estimated at 51,200 coho salmon, slightly above the bottom end of the escapement goal range of 50,000 to 90,000 fish. The U.S. harvest of 35,600 coho salmon in the traditional District 111 mixed stock fishery was near average. Alaskan hatcheries contributed an estimated 13,900 fish, or 39\% of the District 111 harvest.

## Alsek River

The 2018 Alsek River harvest of 1,400 sockeye salmon in the U.S. commercial fishery was below average. There was no harvest of sockeye salmon in the Canadian inriver recreational or Aboriginal food fishery. The Klukshu River weir count of 7,100 sockeye salmon was below average and the escapement of 7,000 fish was below the escapement goal range of 7,500 to 11,000 fish.

The 1,100 Chinook salmon counted through the Klukshu River weir was average and the estimated escapement ( 1,100 fish) was within the escapement goal range of 800 to 1,200 Chinook salmon. The U.S. Dry Bay harvest of 88 large Chinook salmon was below average. There was no harvest of Chinook salmon in the Canadian inriver recreational or Aboriginal food fishery.

Current stock assessment programs prevent an accurate comparison of the Alsek River coho salmon run with historical runs. There was minimal effort during the U.S. Dry Bay coho salmon fishery and harvest figures are negligible. The Canadian recreational and Aboriginal fisheries harvested no coho salmon. The Klukshu River enumeration program does not provide a complete enumeration of coho salmon into this system since it is removed before the run is complete.

## Enhancement

In 2018, eggs and milt were collected from sockeye salmon at Tahltan and Tatsamenie lakes. Canada revised the Tahltan Lake egg-take goal from 5.0 million to 2.5 million sockeye salmon eggs based on estimated escapement into Tahltan Lake and trying to maintain the Treaty guideline of $1: 1$ enhanced to wild smolt production. It is noted elsewhere in this report that the complete escapement into Tahltan Lake was not enumerated due to forest fire evacuations during a large portion of the run timing. An estimated 2.5 million eggs were collected at Tahltan Lake and delivered to Snettisham Hatchery. The egg-take goal at Tatsamenie Lake was 2.5 million eggs. An estimated 2.5 million eggs were collected at Tatamenie Lake and delivered to Snettisham Hatchery.

In 2018, the egg-take goal at Little Trapper Lake was 0.5 million sockeye salmon eggs. The egg take did not occur due to an unusually low escapement during the early portion of the run and low proportion of females observed at the Little Trapper weir. A larger escapement eventually materialized but the female component was still unusually low, approximately $19 \%$.

In 2018, outplants of brood year 2017 sockeye salmon fry were as follows: 2.6 million fry into Tahltan Lake; 1.4 million fry were released directly to Tatsamenie Lake and 371,000 fry were released into net pens for the extended rearing experiment in Tatsamenie Lake; and 188,000 fry were released into Trapper Lake. Green-egg to planted-fry survivals were $68 \%, 75 \%$ and $67 \%$ for Tahltan, Tatsamenie and Trapper lakes; respectively.

Adult sockeye salmon otoliths were processed inseason by the ADF\&G otolith lab to estimate weekly contribution of fish from U.S./Canada TBR fry planting programs to District 106, 108, and 111 drift gillnet fisheries and to Canadian lower commercial and test fisheries in the Stikine and Taku rivers. Postseason estimates of stocked fish to Alaskan harvests were 2,580 Stikine River fish to District 106 and 108, and 1,510 Taku River fish to District 111. Postseason estimates of stocked fish to Canadian fisheries included 9,800 fish to Stikine River fisheries and 2,400 fish to the Taku River fisheries.

## INTRODUCTION

This report presents final postseason estimates of the 2018 harvest and escapement data for Pacific salmon runs to the transboundary Stikine, Taku, and Alsek rivers and describes management actions taken during the season. Harvest and effort data are presented by week, for each river for both U.S. and Canadian fisheries. Spawning escapement data for most species are reported from weir counts or other escapement monitoring techniques. Joint enhancement activities on the Stikine and Taku rivers are also summarized.

The TTC met prior to the season to update joint management, stock assessment and enhancement plans and determine preseason forecasts and outlooks for run strengths and initial TAC estimates for the various species and rivers. The results of this meeting are summarized in: PSC TTC, TCTR (18)-1 Salmon Management and Enhancement Plans for the Stikine, Taku and Alsek Rivers, 2018.

Run reconstruction analyses are conducted on the sockeye salmon Oncorhynchus nerka and Chinook salmon $O$. tshawytscha runs to the Stikine and Taku rivers and to the Taku River for coho salmon $O$. kisutch for the purpose of evaluating the stocks and the fisheries managed for these stocks. No estimates of marine harvest are made for Alaskan fisheries outside of District 106 and 108 for Stikine River stocks, District 111 for Taku River stocks and Subdistrict 182-30 \& 31 for Alsek River stocks.

## STIKINE RIVER

Stikine River salmon are harvested by U.S. commercial drift gillnet and troll fisheries as well as recreational and subsistence fisheries in Alaskan Districts 106 and 108, by Canadian commercial gillnet and assessment/test fisheries located in the lower and upper Stikine River, and by a Canadian AF in the upper portion of the river (Figure 1). In addition, Canadian terminal area fisheries are occasionally operated in the lower Tuya River and/or at Tahltan Lake when escapements are estimated to include excess salmon to spawning requirements (ESSR). A recreational fishery also exists in the Canadian sections of the Stikine River drainage. In 1995, a U.S. personal use fishery was established in the lower Stikine River; no harvests were reported in this fishery in 1995 through 2000. Approximately 30 sockeye salmon were harvested in 2001, and the personal use fishery on the Stikine River was not open in 2002 and 2003. A U.S. subsistence fishery was opened in 2004 for sockeye salmon and in 2005 for Chinook and coho salmon.

In 1993, the U.S. spring experimental troll fishery near Wrangell was expanded to include two new areas in portions of District 106 and 108 to target hatchery Chinook salmon. In 1998 an additional area was included in a portion of District 108. The three areas in District 108 and one area in District 6 have remained unchanged and have opened in the absence of District 108 directed Stikine River Chinook salmon fisheries.

In May 2014, a landslide occurred near the mouth of the Tahltan River. The landslide deposited approximately $8,000 \mathrm{~m}^{3}$ of debris into the river which may have restricted access to Tahltan River Chinook and sockeye salmon spawning sites until mid-July 2014. For the 2014 season, Canada estimated that approximately $70 \%$ and $7 \%$ of the Chinook and
sockeye salmon respectively failed to access their traditional spawning grounds located above the landslide. In March 2015 select boulders at the landslide were demolished using an industrial expansion compound set into drill holes within the boulders. The resulting fragments were displaced downstream by manual labor and by the erosional effects of the spring freshet. The exercise resulted in an increase in the channel width, ridding the site of a "pinch point" where it was observed that salmon struggled in their attempts to ascend the river in 2014. In 2015, Chinook salmon were observed attempting to negotiate the landslide from late May to late June with successful passage confirmed June 28 and after (on average approximately $50 \%$ of the fish enter the Tahltan River by late June). In 2015 during very low flow regimes, some sockeye salmon were observed being rejected from the landslide channel; moreover, several sockeye salmon carcasses were observed below the landslide. In 2016 and 2017, water levels were generally conducive to fish passage and Chinook and sockeye salmon were observed successfully passing the landslide. In winter 2017/2018 significant work was completed at the landslide site to complete an engineered plan to improve fish passage. This work completed drilling and blasting of large instream debris during safe and stable winter months by uncovering the target boulders from the snow and ice. The intent was to increase the width of the channel to lower velocities, resulting in improved fish passage and decrease the size of target boulders to sizes the river could mobilize promoting further gradual erosion of the debris. Extremely low water conditions in 2018 and monitoring indicated Chinook and sockeye salmon passage was not delayed significantly.


Figure 1. The Stikine River and principal U.S. and Canadian fishing areas.

## Harvest Regulations and the Joint Management Model

Fishing arrangements in place for salmon originating from the Canadian portion of the Stikine River watershed are provided in Annex IV, Chapter 1 of the PST and can be found at: http://www.psc.org/pubs/treaty.pdf. These arrangements include: directed fisheries for Chinook salmon; continuation of a U.S. subsistence fishery on Chinook, sockeye, and coho salmon stocks within the U.S. section of the Stikine River; continuation of coho salmon harvest shares; and, a sockeye salmon harvest sharing arrangement based on the estimated production of enhanced fish.

The TTC meets prior to the season to update joint management and enhancement plans, develop run forecasts, and determine new parameters for input into the inseason Chinook and sockeye salmon run projection models. The Chinook salmon model is referred to as the SCMM and serves as a key management tool governing weekly fishing regimes for Stikine River Chinook salmon. The SCMM is complemented inseason with a concurrent MR study and other inriver assessment methods. The sockeye salmon model is referred to as the SMM. The SMM was complemented inseason with concurrent inriver run size estimates based on fishery performance against historical fishery performance and run size estimates.

## Chinook Salmon

The SCMM model described above is based on the linear regression (correlation) between weekly cumulative CPUE of large Chinook salmon at the tagging site, located near the mouth of the Stikine River, and inriver run size based on MR studies conducted in 19962017. The CPUE and run size data sets (CPUE vs. run size) are significantly correlated, although there are statistical challenges with the SCMM at low CPUE levels such as those seen in 2018 as they lie outside of the established relationship. Generalized inseason model estimates were generated commencing in SW 20 but were primarily for information purposes as there were no directed inriver commercial fisheries (Table 1). Traditional MR estimates based on the cumulative ratio of tagged-to-untagged fish observed in the inriver commercial fishery were unavailable due to low catch rates during the first event and no retention in the commercial fisheries (second event). The SCMM was the only available indication of run strength during the Chinook salmon reporting period. In order to abide by Annex IV, Chapter1, Paragraph 3(a)(3)(vii), which obliges the Parties to apportion their overall TAC by historical weekly run timing, weekly fishery openings were announced based on weekly guideline harvests.

The preseason run size estimate of 6,900 large Chinook salmon was below the threshold run size limit of 28,100 fish (Table 1); hence, there were no directed Chinook salmon fisheries in the U.S. and Canada. The threshold number is the sum of the midpoint escapement goal ( 21,000 fish $)+$ the Canadian BLC ( 2,300 fish $)+$ the U.S. BLC $(3,400$ fish) + the inriver assessment/test fishery harvest ( 1,400 fish). In conjunction with the AC associated with the directed fishery, both U.S. and Canada are permitted a base level catch harvested as bycatch taken in the course of the targeted sockeye salmon net fisheries and Chinook salmon taken in traditional recreational fisheries. In response to conservation
concerns for Chinook salmon in 2018, the Canadian directed sockeye salmon fishery opening was delayed by one week (to SW 26) to avoid Chinook salmon bycatch, and once the sockeye fishery opened, fishermen were required to release all Chinook salmon bycatch.

Table 1. Stikine River large Chinook salmon run size based on the Stikine Chinook Management Model and MR estimates, and other methods, and weekly inseason harvest estimates from the District 108 gillnet, sport, troll, and subsistence fisheries and the inriver assessment/test, Canadian gillnet, and sport fisheries, 2018.

|  | Terminal Run |  |
| :---: | :---: | :---: |
| SW | Estimate | Method |
| 19 | 6,900 | Preseason |
| 20 | 6,900 | Preseason |
| 21 | $<14,000$ | SCMM |
| 22 | $<14,000$ | SCMM |
| 23 | $<14,000$ | SCMM |
| 24 | $<14,000$ | SCMM |
| 25 | $<14,000$ | SCMM |
| 26 | $<14,000$ | SCMM |
| 27 | $<14,000$ | SCMM |
| 28 | $<14,000$ | SCMM |
| 29 | $<14,000$ | SCMM |

The preseason forecast for the Stikine River large Chinook salmon terminal run was approximately 6,900 large Chinook salmon (Table 1), which indicated a run size characterized as well below average. Joint Canadian and U.S. inseason predictions of terminal run size were all less than 14,000 large Chinook salmon (Table 1). Project biologists used the daily catch and effort data transmitted from the Kakwan Point tagging site to make weekly run projections based on the SCMM model. Joint weekly run size estimates were calculated on Wednesday or Thursday of the current week. Given the very low run strength and paucity of spaghetti tags recovered inseason, managers used the preseason forecast during SW 19-20 and used only the SCMM to generate a directional estimate (i.e. $<14,000$ ) weekly through the remainder of the Chinook salmon reporting period. Point estimates were not statistically defensible due to the inseason model data lying outside of the established relationship to CPUE and run size as determined by the MR. The first inseason estimate was generated in SW 21.

## Sockeye Salmon

The preseason forecast for the Stikine River sockeye salmon run was approximately 160,900 fish (Table 2) and was characterized as an average run. The forecast included approximately 46,300 wild Tahltan sockeye salmon, 66,100 enhanced Tahltan fish, 12,900 enhanced Tuya sockeye salmon, and 35,500 mainstem sockeye salmon. The preseason forecast was used for management purposes from SW 25 to 27 and the SMM was used
beginning in SW 28. The Canadian lower river commercial fishery opening was delayed for one week from SW 25 to SW 26 to address Chinook salmon conservation concerns.

Starting in SW 28, weekly inputs of the harvest, effort, and stock composition were entered into the SMM to provide weekly forecasts of run size and TAC. Specific inputs include proportion Tahltan/Tuya from egg diameters, proportion enhanced Tuya from thermal mark analyses of otoliths in the Canadian lower river test (when in operation) and commercial fisheries; the upper river harvest in the AF and upper river commercial fishery; the catch, effort and assumed stock composition in Subdistrict 106-41 (Sumner Strait), Subdistrict 106-30 (Clarence Strait), and District 108.

The SMM provides inseason projections of the Stikine River sockeye salmon run, including the Tahltan stock (wild and enhanced combined), the stocked Tuya stock, and the mainstem stocks. The SMM predicts run size for each week of the fisheries using linear regression of historical stock specific harvest data and cumulative CPUE. It breaks the stock proportions in District 106 and 108 harvests, using historical postseason scale pattern analysis (SPA), into triggers of run size for Tahltan and Mainstem; the averages used each week depended upon whether the run was judged to be below average ( $0-40,000$ fish), average ( $40,000-80,000$ fish), or above average ( $+80,000$ fish). The SMM for 2018 was based on CPUE data from 1994 to 2017 from the Alaska District 106 fishery and the Canadian commercial fishery in the lower river and from the lower Stikine River test fishery from 1986 to 2004. The enhanced Tuya and Tahltan stock proportions are adjusted inseason based on the analysis of otolith samples taken in Districts 106 and 108 harvests.

Generally, the SMM has used the Canadian Lower River Commercial (LRCF) fishery CPUE to estimate the inriver run size; however, the Lower River Test fishery CPUE data was available to enter into the SMM model to compare and contrast the respective run sizes generated from each of the inputs. In 2018 the upper commercial fishing zone (Flood fishery) was not opened for harvest; in years that it is opened, the harvest and effort from this area are excluded from the CPUE and not used in the model estimate. The annual weekly CPUE values were adjusted in order to make the current year data comparable with historical CPUE. For example, during 1979-1994 and 2000-2004, 2010-2016, only one net per license was permitted, while in 1996-1999 and 2005-2009 two nets per license were allowed. Only one net was permitted in the 2018 fishing season.

The Stikine Forecasting Management Model (SFMM) was also used in season, as decided by the TTC. The SFMM and test results were summarized in: PSC Technical report No. 38 Stikine Sockeye Salmon Management Model: Improving Management Uncertainty. This model was based on a second order polynomial relationship between weekly cumulative harvest or CPUE in District 106-41 and yearly run size. Triggers of run size for the Tahltan stock were $\leq 98,000$ fish or $>98,000$ fish in the District 106-41 fishery, and 0 , $<46,000$ fish, or $>175,000$ fish in the District 108 fishery. Triggers were not used for the mainstem stock. Additional model runs using cumulative harvest or CPUE in the District 108 sockeye salmon area was also tested. The sockeye salmon area harvest and CPUE in District 108 does not include 108-20 and 108-10 fishing areas, or midweek openings.

Table 2. Weekly forecasts of run size, total allowable harvest for Stikine River sockeye salmon, and cumulative Stikine River harvest as estimated inseason by the Stikine Management Model and other methods, 2018.

|  | Terminal |  | TAC |  |  | Cumulative Harvest |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| SW | Estimate | Method | Total | U.S. | Canada | U.S. | Canada |
| Model runs Canada |  |  |  |  |  |  |  |
| 26 |  | Preseason Forecast |  |  |  |  | 1,801 |
| 27 |  | Preseason Forecast |  |  |  |  | 8,057 |
| 28 | 118,592 | SMM | 56,314 | 28,157 | 28,157 |  | 13,739 |
| 29 | 125,329 | SMM | 65,335 | 32,667 | 32,667 |  | 17,664 |
| 30 | 125,224 | SMM | 66,014 | 33,007 | 33,007 |  | 20,849 |
| 31 | 123,292 | SMM | 64,098 | 32,049 | 32,049 |  | 21,408 |
| 32 | 120,996 | SMM | 61,735 | 30,867 | 30,867 |  | 22,008 |
| 33 | 123,938 | SMM | 64,665 | 32,333 | 32,333 |  | 22,228 |
| 34 |  | SMM |  |  |  |  | 22,329 |
| Model runs U.S. |  |  |  |  |  |  |  |
| 25 |  | Preseason Forecast |  |  |  |  |  |
| 26 |  | Preseason Forecast |  |  |  |  |  |
| 27 |  | Preseason Forecast |  |  |  |  |  |
| 28 | 118,592 | SMM | 56,314 | 28,157 | 28,157 | 1,494 |  |
| 29 | 125,329 | SMM | 65,335 | 32,667 | 32,667 | 3,859 |  |
| 30 | 125,224 | SMM | 66,014 | 33,007 | 33,007 | 5,699 |  |
| 31 | 123,292 | SMM | 64,098 | 32,049 | 32,049 | 6,745 |  |
| 32 | 120,996 | SMM | 61,735 | 30,867 | 30,867 | 7,251 |  |
| 33 | 123,938 | SMM | 64,665 | 32,333 | 32,333 | 7,386 |  |
| Postseason Estimate |  |  | 14,222 | 7,111 | 7,111 | 9,038 | 22,737 |

Harvest does not include test fishery

Table 3. Terminal run reconstruction for Stikine River sockeye salmon, 2018.

Table 3. Run reconstruction for Stikine sockeye salmon, 20xx.

${ }^{\mathrm{a}}$ Total count of fish pass the traditional fisheries.
${ }^{\mathrm{b}}$ Harvest allowed in terminal areas under the Excess Salmon to Spawning Requirement license.
${ }^{\mathrm{c}}$ Fish returning to the Tuya system are not able to access the lake where they originated due to velocity barriers.
${ }^{d}$ The number of Tuya fish that should be passed through traditional fisheries in order to harvest the Tuya stock at the same rate as the Tahltan stock to ensure adequate spawning escapement for Tahltan fish.
${ }^{\mathrm{e}}$ Includes traditional, ESSR, and test fishery Harvestes.
${ }^{\mathrm{f}}$ Does not include ESSR or test fishery Harvestes.
${ }^{\mathrm{g}}$ U.S. harvest estimate differs from Joint Interception Committee estimate because no estimates are made for Harvestes other than in the listed fisheries.

## U.S. Fisheries

The 2018 District 106 drift gillnet fishery was open for 41 days from June 17 through September 25. Total fishing time was below average (47 days). Weekly participation was below average for most of the sockeye salmon management period from SW 25 through SW 31, above average during the pink salmon management period (SWs 32 through 34) and the first half of the coho salmon management period (SWs 35 through 37), then fell to below average for the last two weeks of the season (SWs 38 and 39). The number of permits ranged between 99 permits fished in SW 37 to 18 permits fished in SW 39. Total season effort of 2,663 boat days was below average ( 2,705 boat days).

Total salmon harvest in the District 106 drift gillnet fishery was below average and included 3,247 Chinook, 25,203 sockeye, 112,000 coho, 348,277 pink, and 176,392 chum salmon. Chinook, pink, and chum salmon harvests were above average, while the sockeye, and coho salmon harvests were below average. An estimated 1,543 Chinook salmon (48\%) of the District 106 harvest were of Alaska hatchery origin. An estimated 3,000 Stikine River sockeye salmon were harvested in District 106, approximately $12 \%$ of the harvest. An estimated 34,256 coho salmon ( $31 \%$ ) of the District 106 harvest were of Alaska hatchery origin.

Stikine River sockeye salmon harvests in the two fishing areas of District 106 were markedly different. In the Sumner Strait fishery (Subdistrict 106-41) 14,675 sockeye salmon were harvested, of which 2,431 fish were estimated to be Stikine River sockeye salmon and contributed $17 \%$ of the total sockeye salmon harvest in that subdistrict. In the Clarence Strait fishery (Subdistrict 106-30), 10,528 sockeye salmon were harvested, of which an estimated 569 fish were estimated to be Stikine River sockeye salmon and contributed $5 \%$ of the total sockeye salmon harvest in that subdistrict.

The District 108 drift gillnet fishery was opened for a total of 40 days starting July 1. Total fishing time was below average ( 50 days), excluding years with directed Chinook salmon fishing, and closed concurrently with District 106 on September 25. Participation in District 108 was below average most weeks, except for SWs 29, 30, and 32. The total season effort of 1,064 boat days was below average ( 1,907 boat days).

Total salmon harvest in the District 108 drift gillnet fishery was below average and included 2,649 Chinook, 5,731 sockeye, 8,823 coho, 15,643 pink, and 133,812 chum salmon. Harvests of all five species were below their respective averages. Large Chinook salmon through SW 29 totaled 852 fish, of which 5 were identified as above the border Stikine River origin through GSI. Of the sockeye salmon harvest, an estimated 4,217 Stikine River sockeye salmon were harvested, which contributed 74\% of the District 108 sockeye salmon harvest. An estimated 2,870 fish (33\%) of the District 108 coho salmon harvest were of Alaska hatchery origin.

The Stikine River Chinook salmon preseason forecast of 6,900 fish was insufficient to allow for directed fisheries. In District 108, restrictions implemented in the gillnet fishery to reduce harvests of Stikine River Chinook salmon included a three week delay of the
initial opening, area restrictions through SW 28, and mesh restrictions were implemented through SW 29. Due to recent and expected poor performance of Chinook salmon runs throughout SE Alaska, restrictions in the District 106 fishery were implemented as well. The District 106 opening was delayed one week, and a six-inch maximum mesh restriction was in place for the first three openings.

In 2018, U.S. subsistence fisheries targeting sockeye and coho salmon occurred on the Stikine River. The directed subsistence Chinook salmon fishery was not opened. Subsistence fishing was restricted to federally qualified users, required a permit issued by the USFS, and was limited to the U.S./Canadian border to marine waters at the mouth of the Stikine River. Fishing in "clearwater" tributaries, side channels, or at stock assessment sites was also prohibited. Annual guideline harvest levels were 600 sockeye and 400 coho salmon. Allowable gear for the fishery included dipnets, spears, gaffs, rod and reel, beach seine, and gillnets not exceeding 15 fathoms in length with mesh size no larger than $5 \frac{1}{2}$ inches. A total of 8 Chinook salmon was harvested incidentally during the subsistence sockeye salmon fishery through SW 29. Subsistence fishing was allowed from June 21 through July 31 to target sockeye salmon and from August 1 through October 1 to target coho salmon. In 2018, a total of 117 permits were issued and the estimated harvests included 22 large Chinook, 1,732 sockeye, and 57 coho salmon.
U.S. harvest of large Stikine River Chinook salmon in all District 108 fisheries were minimal and well below the U.S. BLC. The estimated harvest of large Stikine River Chinook salmon by the District 108 drift gillnet fishery through SW 29 was 5 fish based on GSI. The District 108 Spring Troll fishery was closed for 2018. Commercial trolling opened in District 108 for the Summer Troll fishery on July 1 with nonretention of Chinook salmon in effect; however, no vessels fished in District 108. The District 108 sport fishery implemented nonretention of Chinook salmon from April 1 through July 15. Harvest of Stikine River Chinook salmon in the sport fishery was estimated to be 12 fish. Cumulative U.S. District 108 base level fishery harvest by all gear groups through SW 29 was estimated to be 39 fish, well below the U.S. BLC of 3,400 large Stikine River Chinook salmon.

The Stikine River sockeye salmon preseason forecast indicated an above average terminal run size of 160,900 fish, with a resulting U.S. AC of 51,000 fish (Table 2). Preseason forecasts were the primary basis of management during SWs 25 through 27. Inseason estimates of terminal run sizes were first produced on a weekly basis beginning in SW 27 and were used from SW 28 through the end of season with the final inseason estimate being produced in SW 33. Inseason abundance estimates were variable and ranged between 125,000 and 66,000 sockeye salmon. The postseason Stikine River sockeye salmon run estimate of 64,491 fish resulted in an U.S. AC of 7,111 sockeye salmon. The total U.S. harvest was estimated to be 8,950 fish, based on GSI analysis (Table 3).

District 106 opened at 12:00 noon on Sunday, June 17, for an initial 2-day period with a six-inch maximum gillnet mesh restriction in place. On the grounds surveys indicated low sockeye salmon abundance and no additional fishing time occurred. Effort was comprised of 17 boats in Clarence Strait (106-30) and 36 boats in Sumner Strait (106-41). An
estimated 221 Stikine River sockeye salmon were harvested in the District 106 drift gillnet fishery in SW 25.

In SW 26, District 106 opened at 12:00 noon on Sunday, June 24, for an initial 2-day period with a six-inch maximum gillnet mesh restriction in place. On the grounds surveys indicated continued below average harvest rates of sockeye salmon. Additionally, effort decreased to below average. Given effort levels and surplus fish in the AC from the preseason forecast, a 24 -hour extension occurred. Effort was 26 boats in Clarence Strait (106-30) and 19 boats in Sumner Strait (106-41). An estimated 690 Stikine River sockeye salmon were harvested in the District 106 drift gillnet fishery in SW 26.

Districts 106 and 108 opened for an initial 3 days in SW 27 (July 1-July 7) with a six-inch mesh restriction in both districts. Additionally, an expanded area off the Stikine River delta in District 108 was closed. Effort and sockeye salmon harvests were below average in both districts. There was Stikine sockeye salmon AC available for the U.S., but the opening was limited to three days due to Chinook salmon conservation concerns. An estimated 1,697 Stikine River sockeye salmon were harvested this week with the majority ( 1,189 fish) being harvested in District 108. During SW 27, 12 boats fished in Sumner Strait (106-41), 25 boats fished in Clarence Strait (106-30), and 16 boats fished in District 108.

During SW 28 (July 8-July 14), Districts 106 and 108 were opened for an initial 3 days. The first inseason forecast of Stikine River sockeye salmon terminal run size generated this week was 118,600 fish, which resulted in a U.S. AC of 28,157 fish and was considerably below the preseason forecasts (Table 2). On the grounds surveys of the gillnet fleet in both districts continued to indicate below average effort and sockeye salmon abundance in both districts. Given the AC associated with the inseason forecast of Stikine River sockeye salmon, low effort, and associated harvest levels observed during the surveys, an additional 1-day midweek opening in District 108 occurred. The U.S. cumulative harvest of Stikine River sockeye salmon through SW 28 was estimated to be 4,018 fish. Effort included 19 boats in Clarence Strait (106-30), 19 boats in Sumner Strait (106-41), and 35 boats in District 108.

Districts 106 and 108 were opened for an initial 2 days during SW 29 (July 15-July 21). Opening time for District 106 was limited to 2 days for SWs 29 through 31 due to McDonald Lake sockeye salmon concerns. Effort remained below average in District 106 with 20 boats in Clarence Strait (106-30) and 22 boats in Sumner Strait (106-41). Harvest rates of sockeye salmon in both subdistricts remained below average. Effort in District 108 increased to above average with 58 boats making landings. However, most of the fleet continued to target hatchery chum salmon in District 108. Surveys of fishermen targeting sockeye salmon in District 108 indicated that harvest rates of sockeye salmon continued to be below average. The SMM assessment provided a slight increase with a projected run size of 125,300 sockeye salmon, which resulted in a U.S. AC of 32,700 fish (Table 2). District 108 opened for an additional 2-day midweek opening to harvest available surplus Stikine River sockeye salmon. An estimated 1,195 Stikine River sockeye salmon were harvested in SW 29 with a cumulative harvest of 5,213 fish.

Both districts were open for an initial 2 days during SW 30 (July 22-July 28). Run size estimates and the corresponding U.S. AC produced by the SMM decreased substantially in SW 30 with a projected run size of 66,000 fish, which resulted in a U.S. AC of 16,400 fish (Table 2). Due to the available U.S. AC, District 108 opened for a 1-day midweek opening. An estimated 1,259 Stikine River sockeye salmon were harvested by U.S. fisheries this week with a cumulative harvest of 6,472 fish. Effort included: 46 boats in Clarence Strait (106-30), 78 boats in Sumner Strait (106-41), and 65 boats in District 108.

Sockeye salmon harvest fell sharply during SW 31 (July 29-August 4) and continued to decline each week until the end of the season. This was the final week of sockeye salmon management. Both districts were open for an initial 2 days. The inseason forecast for SW 31 estimated a terminal run size of 123,300 Stikine River sockeye salmon with an available U.S. AC of 32,000 fish. The cumulative U.S. harvest of Stikine River sockeye salmon this week was 6,860 fish. On-the-grounds surveys indicated that sockeye salmon harvest rates were below average in both districts with above average effort in District 106 and below average in District 108. Additionally, historical run timing for Stikine River sockeye salmon indicated the remainder of the run was comprised primarily of mainstem fish. Recent model runs indicated a below average return of the mainstem run coupled with very little surplus in the mainstem portion of the AC. With poor sockeye salmon harvest rates and mainstem AC concerns, no additional time occurred. Effort included: 50 boats fishing in Clarence Strait (106-30), 42 boats in Sumner Strait (106-41), and 48 boats in District 108. An estimated 331 Stikine River sockeye salmon were harvested in the District 106 and 108 drift gillnet fisheries through the remainder of the season.

During SWs 32 through 34 (August 6-August 25), both Districts 106 and 108 were managed based on pink salmon abundance. That portion of Section 6-D in District 106 along the Etolin Island shoreline was closed to gillnet fishing from SW 32 through SW 35 by regulation. Three day openings occurred in SWs 32 through 34. Effort was near average in SWs 32 and 33, but was above average in District 106 and below average in District 8 for SW 34.

Beginning in SW 35 (August 26-September 1), management emphasis transitioned to wild coho salmon abundance. Prior to the switch to coho salmon management, 44,877 coho salmon, approximately $40 \%$ of the total District 106 harvest, had been harvested. The hatchery contribution was approximately 7,683 fish in District 106 prior to SW 35 and was comprised primarily of releases from Neck Lake. During the coho salmon management period, coho salmon harvests were below average in District 106 with an estimated harvest of 26,572 hatchery fish and 40,551 wild coho salmon. Harvest of wild coho salmon in District 108 was also below average with an estimated harvest of 5,953 fish for the season. Open time ranged from four days in SW 37 to two days in SW 39 (Table 15). The 2018 drift gillnet season concluded at noon on Tuesday, September 25, in both districts.

## Canadian Fisheries

Annual harvests from the combined Canadian commercial, Aboriginal gillnet and recreational fisheries in the Stikine River in 2018 included 165 large Chinook, 456 nonlarge Chinook, 22,237 sockeye, 3,803 coho, 526 chum, and 94 pink salmon. The
test/terminal area fishery designed to target on Tuya bound fish at a site located in the mainstem Stikine River between the mouth of the Tahltan and the mouth of the Tuya River was not prosecuted in 2018.

The harvest of large and nonlarge Chinook salmon was well below average due to the poor return and the retention restrictions in place in most fisheries. The sockeye and coho salmon harvests were also below average. The preliminary estimate of the total contribution of sockeye salmon from the Canada/U.S. fry-stocking program to the combined Canadian Aboriginal and commercial fisheries was 9,261 fish, $41 \%$ of the catch.

The Chinook salmon assessment fishery was not conducted in 2018, in response to the poor preseason forecast and the decision to maximize the number of fish returning to the spawning grounds. A sockeye salmon test fishery was conducted for stock assessment purposes in the lower Stikine River from 20 June to 24 August, 2018. The test fishery was located immediately upstream from the Canada/U.S. border. Test fishery catches totaled 1,312 sockeye, 118 coho, 97 pink, 99 chum salmon, plus 21 large, 37 nonlarge Chinook salmon and 54 steelhead trout which were all released. The objectives of the sockeye salmon test fishery were similar to those in previous years: to provide inseason catch, stock ID and effort data for input, if necessary, into the SMM to estimate the inriver run size; and, to determine migratory timing and stock composition of the sockeye salmon run for use in the postseason estimations of the inriver sockeye salmon run.

The coho salmon test fishery was not conducted in the lower Stikine River in 2018.

## Lower Stikine River Commercial Fishery

The Canadian commercial fishery on the lower Stikine River harvested 16,915 sockeye, 3,685 coho, 94 pink, and 526 chum salmon. A total of 476 large Chinook, 636 nonlarge Chinook, 407 pink, and 164 chum salmon, as well as 307 steelhead trout, were released in 2018. For 2018, there was no directed Chinook salmon fishery. All Chinook salmon caught incidentally in the directed sockeye and coho salmon fisheries (SWs 26-36) were released. The harvests of both sockeye and coho salmon were below average. Without a directed Chinook salmon fishery, the overall poor abundance of Chinook salmon, and the management measures implemented during the sockeye salmon fishery which were intended to reduce incidental catch of Chinook salmon, the fishery impact on large and nonlarge Chinook salmon was minimal.

Typically, the effort in the directed Chinook salmon fishery averages a total of 168 licence days but, as in 2017, there was no commercial Chinook fishery in 2018. Sockeye salmon were targeted for a total of 159 licence days, below the average of 303 licence days. The coho salmon fishery was opened for a total of 131 licence days, above the average of 104 licence days.

The stock composition of the lower river sockeye salmon harvest was 6,991 enhanced Tahltan fish, which accounted for $41 \%$ of the sockeye salmon harvest; 4,007 wild Tahltan sockeye salmon accounting for $35 \%$ of the harvest; 5,435 mainstem fish accounting for
$24 \%$ of the harvest; and, 598 enhanced Tuya sockeye salmon accounted for $4 \%$ of the harvest (Table 3).

Typically, weekly Chinook and sockeye salmon guideline harvests, based on SCMM, SMM and MR forecasts of the TAC apportioned by average run timing and domestic and international allocation agreements, are developed each week to guide management decisions during the Chinook and sockeye salmon seasons. For 2018, weekly inseason run projections for Chinook salmon were not made as assessment information was largely absent due to the poor run size (which meant poor catches at Kakwan Point - influenced the SCMM) and the decision to limit all Chinook salmon harvest; therefore, reducing the likelihood that sufficient tags would be recovered to provide for inseason MR estimates. In most years, after SW 25, for the purpose of managing the lower river catch, 800 large Chinook salmon are allocated to the upper Stikine River fisheries. The allocation consists of 100, 20, and 680 large Chinook salmon in the recreational, upper commercial and Aboriginal fisheries, respectively. In 2018, the allocation of Chinook salmon to the respective fisheries was not made as restrictions were put in place to eliminate the harvest of Chinook salmon in all fisheries, specifically, the release of all Chinook caught. A total of 8,000 sockeye salmon was allocated to the upper Stikine River commercial and AF. The remaining balance of the sockeye salmon TAC was allocated to the lower Stikine River commercial fishery. Particular attention was directed at the inriver run and escapement projections of the various sockeye salmon stock groupings. From SW 26 through SW 30, management emphasis was on the Tahltan and Tuya lake sockeye salmon stock groupings, after which time the sole focus was the management of mainstem sockeye salmon stocks through the end of the sockeye salmon fishery in SW 34. Unlike past years prior to 2015, the switch to the mainstem sockeye management commenced in SW 31 versus SW 30. This action was in response to the continued relative strength of the Tahltan sockeye stock groupings beyond SW 29. The coho salmon management regime began on SW 35 .

The preseason forecast of 6,900 large Chinook salmon was far below the treaty agreed to threshold run size of 28,100 fish that would trigger a directed fishery. Therefore, a targeted commercial fishery was not prosecuted by Canada in 2018. In response to the poor Chinook salmon forecast and inseason escapement concerns, Canada made the decision to implement restrictions/modifications to the management of the directed sockeye salmon fishery in the lower Stikine River. If Chinook salmon escapement had not been a concern in 2018, the directed sockeye fishery would have opened on 17 June (SW 25) but in response to the Chinook salmon situation, the sockeye fishery did not commence until 26 June (SW 26) to allow for the majority of the Chinook salmon return to pass through the lower Stikine River. Additionally, licence holders were required to release all Chinook salmon that were incidentally caught in the sockeye salmon fishery. Openings in SW 26 were restricted to the daylight period to allow for set gillnet use with a maximum of 30 minute soak times before picking the net in an effort to facilitate the release of healthy large Chinook salmon. The maximum mesh size for the directed sockeye salmon fishing period was kept at 14.0 cms ( $\sim 5.5$ inch) until the start of the coho salmon management period (SW $35)$ to further reduce interceptions and avoid gilling large Chinook salmon.

Annex IV, Chapter 1, paragraph 4 of the PST prescribes that either Party takes corrective action in the event that a Party exceeds its catch allocation in any three of five consecutive years. In 2017, fisheries management actions based on bilaterally agreed to inseason run size information resulted in Canada exceeding its sockeye salmon allocation for the third time in the last five years. In response, Canada reviewed its management actions for 2017 in relation to the stock assessment information available during the fishing season. It was found that the preseason forecast was significantly higher than the postseason run estimate, resulting in early season fishing opportunity (SW26-27) that led Canada to exceed its weekly guidelines. Once inseason information became available, run projections dropped significantly but still exceeded the postseason run estimate which further exacerbated Canada's ability to manage within its AC. Through the review, it was found that Canada exceeded the appropriate amount of fishing time by approximately $20 \%$ during the Tahltan sockeye salmon management period and approximately $50 \%$ during the mainstem sockeye salmon management period.

In an attempt to align the Canadian harvest with its allocation in 2018, Canada was to implement the following measures based on anticipated fishing conditions (water levels) and effort (11 licences) being similar to 2017:

- preseason forecast adjusted to reflect the recent observed smolt to adult survival rates for Tahltan sockeye salmon - used to inform management in SW26-27;
- for SW28-34, when inseason run projections were at or below the preseason forecast, commercial openings were to be reduced by approximately $20 \%$ for the Tahltan stock and by approximately $50 \%$ for the mainstem stock management periods;
- when inseason run projections exceeded the preseason forecast, the commercial fishery was to be adjusted to reflect a normal fishery.
(Note: some of the catch figures listed in the following narrative may not match the final catch records listed in the tables. This is due to slight changes in the catches as a result of a postseason check of the catch slips, updated stock composition information, and assessment of Chinook salmon large versus nonlarge size ratios.)

In SW 26, the fishery opened (delayed by nine days) for sockeye salmon, which was centered on the Tahltan stock group and was expected to remain so until SW 29. Fishers were permitted one net only and the commercial fishing area remained the same as recent years, which was from the Canada/U.S. border upstream to a location near the mouth of the Porcupine River. The area included the lower 10 km reach of the Iskut River. The use of set gillnets was permitted as along as net checks occurred no less than every 30 minutes. In order to facilitate the requirement, openings were restricted to daylight periods only to ensure fisher safety. The overall Canadian sockeye salmon AC of 52,600 fish including approximately 43,900 Tahltan Lake sockeye salmon, 6,300 Tuya Lake sockeye salmon and 2,300 mainstem sockeye salmon was based on the preseason run size expectation of 160,900 fish.

The fishery was posted for an initial 18 hrs period commencing Tuesday 0500 hrs , 26 June (SW 26). The guideline catch for sockeye salmon was 6,000 fish (including ~4,600 Tahltan Lake sockeye salmon). Based on room in the guideline harvest and in keeping with the Paragraph 4 measures noted above, the decision was made to extend the fishery for an 18 hrs periods and then a final 7 hrs period. Catch rates for the week were close to average (above average for the Tahltan stock) and resulted in a catch of 1,782 sockeye salmon, including $\sim 1,500$ Tahltan Lake sockeye salmon. A total of 186 large Chinook salmon were encountered and released. The sockeye salmon harvest was comprised of $85 \%$ Tahltan, $9 \%$ Tuya, and $7 \%$ mainstem stocks. The Tahltan sockeye salmon fbd was 87 versus an average of 59 fbd .

The fishery was posted for an initial 48 hrs period in SW 27 with a sockeye salmon guideline harvest of 10,400 fish, including 9,000 Tahltan Lake sockeye salmon, based on the preseason forecast. The fishing conditions were very good due to below average and stable water levels. The day 1 catch was about 1,400 fish and the opening was extended to 72 hours. The final catches for the week consisted of 5,160 sockeye salmon; including $\sim 4,300$ Tahltan Lake origin fish. A total of 153 large Chinook were encountered and released. The weekly sockeye salmon harvest was comprised of $84 \%$ Tahltan, $4 \%$ Tuya, and $13 \%$ mainstem sockeye salmon. The Tahltan sockeye salmon fbd was 131, above the average of 116 .

The run size generated from the SMM in SW 27 was 119,000 sockeye salmon and included ~58,000 Tahltan Lake origin fish; these figures were well below the preseason forecasts. The SW 28 the fishery was posted for an initial 24 hrs period with a guideline harvest of $\sim 3,800$ sockeye salmon including $\sim 2,300$ Tahltan Lake sockeye salmon. Catch rates were slightly above average and the fishery was extended 24 hours. The catch for the week consisted of 3,905 sockeye salmon, including a harvest of $\sim 3,400$ Tahltan Lake sockeye salmon. The harvest of Tahltan sockeye salmon was above the guideline. The stock composition was $88 \%$ Tahltan, $2 \%$ Tuya, and $10 \%$ mainstem sockeye salmon. The week's Tahltan Lake sockeye salmon fbd of 155 was above average (103). Week 28 marks the historical peak of the Tahltan Lake sockeye salmon through the fishery; catches to date indicated the run timing appeared to be normal.

In SW 29 the fishery was posted for an initial 24 hrs opening with a guideline harvest of 4,000 sockeye salmon, including 3,000 Tahltan sockeye salmon. The SW 28 run size estimate indicated a run size of approximately 125,000 sockeye salmon. The Tahltan Lake component was estimated at 73,000 fish, still below the preseason forecast but consistent with inseason information to date. The fishery was extended by 24 hours based on room in the Tahltan Lake weekly guideline harvest. This week's effort yielded a harvest 2,213 sockeye salmon. The Tahltan Lake sockeye salmon harvest of 1,682 fish was below the guideline. The weekly sockeye salmon harvest was comprised of $76 \%$ Tahltan, $2 \%$ Tuya, and $22 \%$ mainstem fish. Historically SW 29 marked the end of the Tahltan Lake sockeye salmon management regime; however, given the relative strength of Tahltan sockeye salmon (Tuya fish to a lesser degree), it was decided that Tahltan sockeye salmon abundance would govern management decisions into SW 30 as has been the case in recent years.

In SW 30 the fishery management regime remained focused on Tahltan Lake sockeye salmon abundance. The fishery was posted for an initial 24 hrs period with a guideline harvest of $\sim 3,300$ sockeye salmon, including 2,200 Tahltan Lake fish. The terminal run estimate made in SW 29 had remained steady at 125,000 sockeye salmon, of which 78,000 were Tahltan fish, and 36,000 were mainstem fish. Based on a day 1 hail, an extension of 24 hours was posted. The harvest for the week was 2,030 sockeye salmon, including a Tahltan Lake sockeye salmon harvest of 1,204 fish, below the weekly guideline. The weekly sockeye salmon harvest was comprised of $59 \%$ Tahltan, $3 \%$ Tuya, and $38 \%$ mainstem sockeye salmon. The Tahltan Lake sockeye salmon fbd was about average (46 vs. 49 fbd ), whereas the mainstem sockeye salmon fbd of 29 fish was below the average of 59 fish for this period, suggesting that the mainstem sockeye salmon return was below the forecast ( 35,500 fish). The fishery was conducted under below average but rising water levels.

In SW 31, management decisions switched from a focus on Tahltan Lake sockeye salmon abundance to the abundance of mainstem sockeye salmon. The fishery was posted for an initial 24 hrs opening with a guideline harvest of $\sim 1,500$ sockeye salmon of which $\sim 250$ were mainstem sockeye salmon. The SW 30 SMM run size projection was $\sim 123,000$ sockeye salmon; the mainstem component, $\sim 34,000$ fish, was close to the preseason expectation. The fishery was extended 24 hours resulting in a weekly harvest of 496 sockeye salmon, including 427 mainstem fish. The harvest was comprised of $13 \%$ Tahltan, $1 \%$ Tuya, and $86 \%$ mainstem sockeye salmon. The mainstem sockeye salmon fbd of 27 was below the average of 58 fbd .

In SW 32, the fishery was posted for 24 hrs period with a guideline harvest of 116 mainstem sockeye salmon. The TAC was based on an overall run size projection of $\sim 121,000$ sockeye salmon including 32,000 mainstem sockeye salmon generated by the SMM which was similar to the previous estimate. The fishery was extended by 24 hours. The fishery was conducted under slightly below average water levels and harvested 600 sockeye salmon, including a mainstem sockeye salmon catch of 449 fish. The mainstem sockeye salmon fbd was 45 versus an average of 53 fbd . Effort was down from 11 licences, at the start of the season, to 5 licences.

In both SW 33 and 34, the fishery was held to a 24 hour period. Terminal run projections made by the SMM in SW 32 had remained steady at $\sim 124,000$ sockeye salmon with $\sim 35,000$ of those being mainstem fish. Catch rates for mainstem sockeye salmon were close to average in SW 33 ( 30 fbd versus 33 fbd) but dropped to well below average in SW 34 ( 11 fbd versus 27 fbd ). Fishing conditions were good with below average water levels. Effort was 6 licences in SW 33 and 7 licences in SW 34. No Tahltan or Tuya fish were identified in harvests after this week. By the end of SW 34, Canada had harvested ~12,400 Tahltan sockeye salmon which was well below the AC of $\sim 21,000$ fish. The harvest of mainstem sockeye salmon to date, $\sim 3,600$ fish, was above the AC of $\sim 1,600$.

In SW 35, the fishery was opened for an initial 72 hours with the management objective focused on coho salmon abundance. A total of 7 licences were fished. The guideline harvest
on coho salmon was 5,000 fish for the season with the intention of spreading the harvest over SW 35 and 36. The CPUE in the commercial fishery was 26 fbd, below the average of 37 fbd . After 2 days of fishing, the fishery was extended for an additional 24 hrs. The harvest was 1,361 coho and 202 sockeye salmon.

In SW 36, the fishery was opened for an initial 96 hrs period. An average of 8.5 licences fished each day. After 2 days the fishery was projected to be within the 5,000 directed coho salmon target and an additional 48 hrs of fishing time was provided, resulting in a weekly harvest of 1,482 coho and 177 sockeye salmon.

The final week of the fishery, SW 37, was opened for 96 hours and extended 24 hours. A total of 7 licences fished, for the first four days of the opening; there was not effort on the final day. The fishing activity yielded a harvest of 481 coho and 29 sockeye salmon. The season total coho salmon harvest was 3,685 fish, 361 of which were taken in the course of the sockeye salmon fishery and, therefore, not counted toward the 5,000 fish allocation as prescribed in the PST.

## Upper Stikine River Commercial Fishery

A small commercial fishery has existed near Telegraph Creek on the upper Stikine River since 1975. A total of 407 sockeye salmon and no Chinook salmon were caught in 2018, which was below the averages. The fishing effort of 4 boat days fished was below average. Generally, fishery openings were based on the lower Stikine commercial fishery openings, lagged one week. However, no fishing occurred after SW 30 (ending July 28) due to the Telegraph Creek area wildfire.

## Aboriginal Fishery

The upper Stikine AF fishery, which is located near Telegraph Creek, B.C., harvested 165 large Chinook, 456 nonlarge Chinook and 5,415 sockeye salmon in 2018. The harvest of large Chinook salmon was well below average. The harvest of sockeye salmon was below average. The harvest was largely comprised of Tahltan Lake sockeye salmon run. Fishing conditions were good; effort was about average until the end of July at which time it dropped to zero due to the area wildfires. Typically about $88 \%$ of the sockeye salmon harvest takes place prior to August.

## Recreational Fishery

The Stikine River salmon recreational fishery targets primarily Chinook salmon and its principal fishing location is located at the mouth of the Tahltan River. Minor sport fishing activities occur in upper reaches of the Tahltan River and in some tributaries of the Iskut River, including Verrett and Craig rivers. In 2018, there was no harvest of large Chinook salmon in the recreational fishery. Restrictions were in place starting 07 May that did not permit the retention of Chinook salmon (all sizes) in the waters of the Stikine River. Additionally, the Tahltan River was closed to salmon fishing until further notice effective June 01 in an attempt to protect spawning Chinook salmon. Access to the fishing sites near
the mouth of the Tahltan River was restricted by the Tahltan First Nation Chief and Council in order to limit recreational harvest on Little Tahltan River bound Chinook salmon.

## Escapement

## Sockeye Salmon

Significant forest fire activity in the Stikine River drainage affected sockeye salmon escapement projects in 2018. There was a forced evacuation of the Tahltan Lake DFO camp and escapement weir project on August 5th due to nearby fire activity. The crew was allowed back into camp on August 12th evening, but were again evacuated on August 17th, after which the weir crew was unable to return before the end of the sockeye salmon run. The weir was opened to fish passage at all times the camp was evacuated, which left an unknown portion of sockeye salmon escapement into Tahltan Lake uncounted. A total of 9,854 sockeye salmon were counted into Tahltan Lake during weir operations, and the estimate was expanded by the 2015-2017 average of run timing ( $40 \%$ ) remaining when weir pulled at the first evacuation on August 5th was used to estimate an additional 6,703 sockeye salmon that may have entered the lake. This provides a total 2018 Tahltan Lake sockeye salmon escapement estimate of 16,557 fish.

The total Tahltan Lake sockeye salmon escapement estimate of 16,557 fish is below the average weir count of 25,933 fish, and is below the escapement goal range of 18,000 to 30,000 fish. An estimated 9,053 fish ( $50 \%$ of the escapement- broodstock estimate) originated from the enhancement program, which was similar to the $56 \%$ contribution observed in smolts leaving the lake in 2015; the principal smolt year contributing to the 2018 return. A total of 1,878 sockeye salmon were collected for broodstock and 207 fish (males only) were collected for stock identification purposes at the weir resulting in a natural spawning escapement of 14,472 sockeye salmon to Tahltan Lake.

Significant remediation work was completed at the Tahltan River landslide in March 2018. The site was monitored for fish passage in 2018, and passage was achieved for both Chinook and sockeye salmon migrating to their respective spawning grounds above the landslide. Ongoing monitoring is proposed to ensure that passage remains possible at all water levels. Given the record low water flows in summer 2018, Decheeka Falls, which is located at the top end of a small canyon above the Little Tahltan River confluence with the Tahltan River, may have been a passage challenge at times. The site opportunistically observed from six helicopter overflights throughout the season, with one site visit in midOctober. Sockeye salmon were observed holding below the site in mid-September, but the effect of this challenge on sockeye salmon returns is not well understood or quantifiable.

The spawning escapements for the mainstem and Tuya stock groups are calculated using stock identification, test fishery, and inriver commercial harvest data. The mainstem sockeye salmon escapement estimate was 13,7662 fish, well below the average escapement, well below the target escapement of 30,000 fish, and below the escapement goal range of 20,000 to 40,000 fish. The Tuya excess estimate was 1,173 sockeye salmon.

Aerial survey counts of mainstem sockeye salmon were well below average in 2018 which is to be expected given the low escapement estimate of mainstem fish.

## Chinook Salmon

In order to assess inriver Chinook salmon abundance in 2018, a MR study was conducted concurrently with the SCMM. Inseason MR estimates for large Chinook salmon were not calculated in 2018 due to the low number of marks deployed and Chinook retention not being permitted in inriver fisheries. The postseason Stikine River spawning escapement estimate of 8,355 large Chinook salmon is based on tag recoveries from Chinook salmon released in directed sockeye commercial fisheries, the Aboriginal fisheries, and Little Tahltan video weir observations. This was well below the average escapement of 16,359 large fish, and below the escapement goal range of 14,000 to 28,000 large Chinook salmon.

The 2018 Chinook salmon escapement enumerated at the Little Tahltan River weir was 453 large fish and 413 nonlarge Chinook salmon. This escapement of large Chinook salmon in the Little Tahltan River was below the average of 1,059 fish and well below the lower end of the Canadian escapement target range of 2,700 to 5,300 large fish. This was the twelfth consecutive year that the Canadian escapement target range was not reached.

The Little Tahltan River weir count represented approximately 5\% of the total Stikine River large Chinook salmon escapement, near the average weir count contribution of $6 \%$. Note that this average has declined significantly in the last ten years and over the project history has ranged from $1 \%$ to $34 \%$ of the estimated escapement.

Lower water flows and observation of successful Chinook salmon passage at the site of the 2014 Tahltan River landslide suggest that the landslide was not a migration barrier in 2018.

No sampling took place at Verrett Creek in 2018 due to low abundance and poor sampling conditions.

The Chinook salmon aerial surveys took place on July 30 and August 02 , under very poor conditions. Some sites were inaccessible due to nearby forest fire activity and related smoke, and water turbidity was high in other areas. Counts were very low in areas that were able to be surveyed.

## Coho Salmon

The annual coho salmon aerial survey was conducted on November 6 under excellent viewing conditions with very low water encountered at a number of sites. The total count of coho salmon observed at six index sites was 1,994 fish, slightly above average. The inseason weekly CPUE of coho salmon from the lower Stikine River Canadian commercial fishery was also above average.

A coho salmon drift gillnet test fishery was not conducted in 2018.

## Sockeye Salmon Run Reconstruction

As detailed above, forest fire activity in the Stikine River drainage impacted sockeye salmon monitoring projects in 2018. As such, the escapement number for Tahltan Lake sockeye was partially estimated (methods described above) and will be verified in 2020 when this brood year's emigrating smolts are enumerated. This may modify the current estimate.

The postseason estimate of the terminal Stikine River sockeye salmon run was 64,491 fish. Of this number, approximately 38,130 fish were of Tahltan Lake origin (wild \& enhanced), 2,180 fish were of Tuya origin (enhanced fry from Tahltan broodstock stocked into Tuya Lake), and 24,181 fish were mainstem (Table 3). These estimates are based on postseason data, including otolith recovery and GSI analysis in the U.S. Districts 106 and 108 harvests, harvest data from the inriver Canadian commercial, Aboriginal, and test fisheries, and escapement data. Inriver stock composition data are from inseason egg diameter and inseason and postseason otolith analysis. The 2018 terminal run was well below average and well below the preseason forecast of 160,900 fish

## TAKU RIVER

Taku River salmon are harvested by U.S. commercial drift gillnet and troll fisheries as well as recreational and inriver personal use fisheries in Alaskan District 111. In Canada, a commercial gillnet fishery extends from the international border upstream for approximately 18 km , with Aboriginal and recreational fisheries also harvesting Taku River salmon (Figure 2).


Figure 2. The Taku River and principal U.S. and Canadian fishing areas.

## Harvest Sharing and Joint Management Models

Fishing arrangements in place for salmon originating from the Canadian portion of the Taku River watershed are provided in Annex IV, Chapter 1 of the PST and can be found at: http://www.psc.org/pubs/treaty.pdf. These arrangements include directed fisheries and harvest shares based on run size for Taku River Chinook and coho salmon stocks and directed fisheries for sockeye salmon with harvest sharing arrangements based on the documented production of enhanced fish.

The TTC met prior to the season to update joint management and enhancement plans, develop run size forecasts, and determine new parameters for input into the inseason Chinook, sockeye, and coho salmon run size projection models.

## Chinook Salmon

A bilateral review of the escapement goal for Taku River large Chinook salmon completed in early 2009 resulted in a revised escapement goal range of 19,000 to 36,000 fish.

Weekly Chinook salmon run size and AC projections based on historical run timing, are used to guide the management of U.S. and Canada fisheries. These are determined by a formula based on the preseason Taku River Chinook salmon run forecast early in the season, and revised inseason based on the inseason run projection estimates generated from the Canyon Island MR project.

Table 4. Taku River large Chinook salmon run size based on CPUE (methods similar to the Stikine Chinook Management Model), and other methods, and weekly inseason harvest estimates from the District 111 drift gillnet, sport, troll, and subsistence fisheries and the inriver assessment/test, Canadian gillnet, and sport fisheries, 2018.

|  | Terminal Run |  |
| :---: | :---: | :---: |
| SW | Estimate | SW |
| 19 | 4,700 | 19 |
| 20 | 4,700 | 20 |
| 21 | $<19,000$ | 21 |
| 22 | $<19,000$ | 22 |
| 23 | $<19,000$ | 23 |
| 24 | $<19,000$ | 24 |
| 25 | $<19,000$ | 25 |
| 26 | $<19,000$ | 26 |
| 27 | $<19,000$ | 27 |
| 28 | $<19,000$ | 28 |
| 29 | $<19,000$ | 29 |

The 2018 preseason terminal run forecast of 4,700 Taku River large Chinook salmon provided no AC for directed fisheries for either country. Taku River Chinook salmon forecast model was reduced to account for model error over the past 5 years. An additional
consideration for reducing the model forecast was the general poor performance of Chinook salmon stocks in recent years throughout northern British Columbia and Alaska. This 2018 forecast is the lowest Chinook salmon forecast on record, and far below the average run size of 26,000 fish.

No Chinook salmon inriver assessment fishery was conducted because of the low preseason forecast, however drifted tangle nets were used near the confluence of the Wright River to spaghetti and radio tag fish to allow for a spawning grounds MR estimate and potentially give some sense of inseason run abundance based on catch rates. Traditional inseason MR estimates based on the cumulative ratio of tagged-to-untagged fish observed in the inriver commercial fishery were unavailable due to low catch rates during the first event and no Chinook retention permitted in directed commercial fisheries (second event). With no reliable way of estimating inseason run size, both countries managed their early season sockeye salmon fisheries based off the preseason Chinook salmon forecast.

## Sockeye Salmon

For sockeye salmon weekly inriver population estimates from the joint MR program are used to project the inseason run size of all fish. As the season progresses, sufficient data is acquired from the inriver MR program to make weekly estimates of the inriver run size using the Canyon Island fish wheels as event 1 and the Canadian inriver fishery as event 2. Historical migratory timing and fishery harvest data are used to project the Taku River sockeye salmon terminal run size and TAC, and otolith analysis of the U.S. and Canadian harvests are used to project the enhanced component of the run which determines the parties respective ACs.

The 2018 preseason terminal run forecast of 160,000 Taku River wild sockeye salmon was below the recent 10 -year average of 180,000 fish. This was a stock-recruitment model forecast that was adjusted using the recent 10 -year model error ( $22 \%$ ) for the first time in 2018.

Approximately 5,400 enhanced fish from Tatsamenie Lake were forecasted, well below the average Tatsamenie enhanced run size of 9,500 fish. Based on the treaty arrangement, an enhanced run of $5,001-15,000$ fish requires the TAC to be split $79 \%$ to the U.S and $21 \%$ to Canada with management based on weekly estimates of the TAC of wild fish. Subtracting the escapement target of 75,000 wild sockeye salmon from the forecast of 159,900 fish resulted in an overall TAC of 84,900 fish; $79 \%$ to the U.S. equaling 67,100 fish, and $21 \%$ to Canada equaling 17,800 fish.

The preseason forecast was used for management purposes in the early SWs. Generally, inseason inriver run projections were highly variable in the first four weeks ranging from approximately 76,000 fish to 163,000 fish and stabilized towards the end of the season around 130,000 fish.

Table 5. Weekly projections of terminal run size, total allowable harvest, and cumulative harvest by country of Taku River sockeye salmon for 2018.

| SW | Terminal <br> Estimate | Method | TAC |  |  | Canada <br> Surplus AC | Cumulative Harvest |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Total | U.S. | Canada |  | U.S. | Canada |
| Model runs generated by Canada |  |  |  |  |  |  |  |  |
| 25 |  |  |  |  |  |  |  |  |
| 26 | 159,900 |  | 84,900 |  | 17,829 | 0 |  | 238 |
| 27 | 159,900 |  | 84,900 |  | 17,829 | 0 |  | 799 |
| 28 | 159,900 |  | 84,900 |  | 17,829 | 593 |  | 2,781 |
| 29 | 157,668 |  | 82,668 |  | 17,360 | 0 |  | 5,334 |
| 30 | 140,034 |  | 65,034 |  | 13,657 | 0 |  | 11,445 |
| 31 | 158,704 |  | 83,704 |  | 17,578 | 261 |  | 13,725 |
| 32 | 171,811 |  | 96,811 |  | 20,330 | 0 |  | 14,410 |
| 33 | 157,744 |  | 82,744 |  | 17,376 | 0 |  | 14,968 |
| 34 |  |  |  |  |  |  |  |  |
| Model runs generated by the U.S. |  |  |  |  |  |  |  |  |
| 25 | 160,000 | Preseason | 85,000 | 67,150 | 17,850 |  | 26,761 |  |
| 26 | 160,000 | Preseason | 85,000 | 67,150 | 17,850 |  | 26,055 |  |
| 27 | 98,858 |  | 23,858 | 18,848 | 5,010 |  | 23,113 |  |
| 28 | 188,222 |  | 113,222 | 89,446 | 23,777 |  | 28,007 |  |
| 29 | 170,920 |  | 95,920 | 75,776 | 20,143 |  | 41,920 |  |
| 30 | 210,172 |  | 135,172 | 106,786 | 28,386 |  | 47,632 |  |
| 31 | 200,379 |  | 125,379 | 99,050 | 26,330 |  | 43,082 |  |
| 32 | 176,518 |  | 101,518 | 80,199 | 21,319 |  | 42,387 |  |
| 33 | 169,898 |  | 94,898 | 74,969 | 19,929 |  | 41,570 |  |
| 34 |  |  |  |  |  |  |  |  |

Table 6. Taku River sockeye salmon run reconstruction, 2018. Estimates do not include spawning escapements below the U.S./Canada border.

|  | Taku |  |  | Taku--adjusted |  |  | Non-Taku Enhanced |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total | Natural origin | Enhanced | Total | Natural origin | Enhanced | US | Stikine |
| Escapement | 119,033 | 116,658 | 2,376 | 98,465 | 96,089 | 2,376 |  |  |
| Canadian Harvest |  |  |  |  |  |  |  |  |
| Commercial | 17,948 | 17,024 | 923 | 17,948 | 17,024 | 923 | 0 | 26 |
| Aboriginal Fishery | 14 | 13 | 1 | 14 | 13 | 1 |  |  |
| Total | 17,962 | 17,038 | 924 | 17,962 | 17,038 | 924 |  |  |
| Test Fishery harvest | 0 | 0 | 0 | 0 | 0 | 0 |  |  |
| Above Border Run estimate | 136,995 | 133,695 | 3,300 | 116,427 | 113,127 | 3,300 |  |  |
| U.S. Harvest |  |  |  |  |  |  |  |  |
| District 111 Gillnet | 25,902 | 24,472 | 1,431 | 25,902 | 24,472 | 1,431 | 33,804 | 152 |
| Personal Use | 1,612 | 1,527 | 85 | 1,612 | 1,527 | 85 |  |  |
| Total | 27,514 | 25,999 | 1,516 | 27,514 | 25,999 | 1,516 |  |  |
| Test Fishery harvest | 0 |  |  |  |  |  |  |  |
| Terminal Run | 164,509 | 159,694 | 4,815 | 143,941 | 139,126 | 4,815 |  |  |
| Escapement Goal | 75,000 | 75,000 |  | 75,000 | 75,000 |  |  |  |
| TAC | 89,509 | 84,694 |  | 68,941 | 64,126 |  |  |  |
| Canada |  |  |  |  |  |  |  |  |
| Harvest Share | 20\% | 20\% |  | 20\% | 20\% |  |  |  |
| Canada AC | 17,902 | 16,939 |  | 13,788 | 12,825 |  |  |  |
| Surplus Allowable | 0 | 0 |  | 0 | 0 |  |  |  |
| Canada AC + Surplus | 17,902 | 16,939 |  | 13,788 | 12,825 |  |  |  |
| Actual harvest | 17,962 | 17,038 |  | 17,962 | 17,038 |  |  |  |
| U.S. |  |  |  |  |  |  |  |  |
| Harvest Share | 80\% | 80\% |  | 80\% | 80\% |  |  |  |
| US AC | 71,608 | 67,755 |  | 55,153 | 51,300 |  |  |  |
| Actual harvest | 27,514 | 25,999 |  | 27,514 | 25,999 |  |  |  |

## Coho Salmon

In early 2015, an escapement goal range of 50,000 to 90,000 Taku River coho salmon with a 70,000 fish point goal was adopted. The U.S. management intent in 2018 was to pass 75,000 coho salmon above the border to provide for escapement and a 5,000 fish assessment fishery. Interim harvest sharing arrangements agreed to in 2018 allowed Canada to harvest any fish surplus to the 70,000 fish escapement point goal.

Inseason run estimates are generated using MR methodology. Tags are applied in event 1 from Canyon Island fish wheels or set gillnets. Event 2 consists of fish inspected in the inriver commercial or assessment fisheries upstream of the U.S./Canada border. Inriver run abundance estimates are projected based on average run timing past Canyon Island.

The 2018 preseason terminal run forecast of 81,000 Taku River coho salmon was below the average terminal run of 123,000 fish. The 2018 forecast was generated using the relationship between the CPUE in smolt tagging and the total run estimates seen over the past twenty-years. Based on the bilaterally agreed to escapement goal of 70,000 fish (range: 50,000 - 90,000 fish), the U.S. intent
was to manage its fisheries to target a minimum above border run of approximately 75,000 coho salmon. A directed Canadian harvest of 5,000 fish would be permitted starting in SW 34 for assessment purposes. Canada was also permitted to harvest all coho salmon in excess of 70,000 fish plus the fish allocated for assessment purposes. Generally, the inseason inriver run estimates remained between 75,000 to 80,000 fish from SWs 33 through 37, with the exception of SW 34 which increased significantly to 95,000 fish, and then fell sharply in SWs 38 and 39.

## U.S. Fisheries

The traditional District 111 commercial drift gillnet salmon fishery was open for a total of 44 days from June 17 through September 24, 2018. The harvest totaled 740 Chinook, 68,100 sockeye, 35,600 coho, 23,200 pink, and 517,100 chum salmon. Harvests of all species were below average. The traditional fishery does not include harvests from the Speel Arm Special Harvest Area (SHA) inside Port Snettisham. This hatchery access fishery was opened in SW 32 and closed in SW 37 resulting in an additional harvest of 24,800 sockeye salmon and minor harvests of other salmon species.

The 2018 season was the nineteenth year of adult sockeye salmon returns to the Snettisham Hatchery inside Port Snettisham. These fish contributed to the traditional harvests in Taku Inlet, Stephens Passage, and the entrance of Port Snettisham, the latter being open from SW 31-39. This was the fourth year of full production for DIPAC's revitalized enhanced coho salmon program and the proportion of these fish in the total District 111 gillnet coho salmon harvest was one of the largest to date. Hatchery stocks contributed substantially to the harvests of sockeye, coho, and chum salmon and more minimally to the harvest of Chinook salmon.

In 2018, the Alaska Board of Fisheries adopted a regulation increasing the sockeye salmon possession and annual limits for the U.S. Taku River personal use fishery to 10 fish for a household of one person and 20 fish for a household of two or more persons. The estimated personal use harvest of Taku River sockeye salmon in 2018 is 1,500 fish.

Management actions in the District 111 drift gillnet fishery due to Chinook salmon conservation concerns occurred in the first five directed sockeye salmon openings with two-day openings in Taku Inlet in SWs 25 through 28, significant area closures including most of Taku Inlet and waters extending further south and west in SWs 25 and 26, a closure north of Point Cooper in SW 27, and north of Jaw Point in SWs 28 and 29. A six-inch maximum mesh size restriction and night closures ( 10 p.m. to 4 a.m.) were in place throughout the district in SWs 25 through 27. Commercial spring troll fisheries throughout the region were limited to select outer coastal areas, near hatchery facilities/release sites, in THAs, and in areas that have been identified as having low proportional harvest of wild SEAK/Yakutat Chinook salmon. Nonretention of Chinook salmon in the sport fishery was in effect in northern inside waters from April 1 through June 14. The personal use sockeye salmon fishery on the U.S. side of the Taku River was also delayed by more than two weeks starting on July 16. The 2018 District 111 drift gillnet Chinook salmon harvest in the SWs 25-29 TBR accounting period was 480 fish of which $54 \%$ were large fish. Postseason GSI analysis indicates that $11.8 \%$ of the District 111 drift gillnet large Chinook salmon harvest (31 fish) was of Taku River origin through SW 29. The Juneau area sport harvest of Taku

River large Chinook salmon was estimated at 9 fish during the same period based on GSI analysis. The preliminary MR estimate of Taku River spawning escapement is approximately 7,270 large Chinook salmon.

The traditional District 111 sockeye salmon harvest of 68,100 fish was $66 \%$ of average with correspondingly low weekly CPUE throughout the season. Snettisham Hatchery sockeye salmon returns began to contribute to the traditional fishery in SW 27 and otolith sampling occurred through SW 35 in Taku Inlet and through SW 33 in Stephens Passage. Of the total traditional District 111 sockeye salmon harvest, $62 \%$ occurred in and around Taku Inlet (average is 70\%), 30\% occurred in Stephens Passage south of Circle Point (average is $23 \%$ ) and $8 \%$ occurred in Port Snettisham (average is $7 \%$ ). The contributions of Taku River wild, Taku River enhanced, Port Snettisham enhanced, and other sockeye salmon stocks were derived from estimates based inseason on otolith analysis and postseason from estimates based on GSI and otolith analyses. The postseason GSI based stock composition of the harvest of sockeye salmon in the traditional District 111 drift gillnet fishery is 24,500 (39\%) wild Taku River, 1,430 ( $2 \%$ ) enhanced Tatsamenie and King Salmon lakes, 33,800 (54\%) Snettisham Hatchery fish, and 3,200 (5\%) domestic wild fish.

Opportunity to target returning Snettisham Hatchery sockeye salmon inside Port Snettisham began in SW 31 with a 24 -hour opening, starting August 1, in the entrance of Port Snettisham (111-34) due to a large pulse of Speel Lake wild sockeye salmon through the weir and another sizeable group of fish observed in the stream below the weir. The minimum mesh size restriction south of Circle Point, in place since SW 28 to conserve Speel and Crescent Lake wild sockeye salmon was removed at the same time. In SW 32, the Speel Arm SHA was opened along with the rest of Section 11-B on Sunday, August 5 due to continued significant escapement through the weir and fish observed below the weir. This was the second earliest opening (it opened on August 3 in 2003) of the SHA since the 2000 season when sizeable returns of enhanced sockeye salmon to Snettisham Hatchery began. The Speel Arm SHA remained open continuously from August 5 through September 12 and a total of 24,750 sockeye salmon were harvested from the SHA with all but a few thousand taken in SWs 32 and 33.

Coho salmon stocks harvested in District 111 include returns to the Taku River, Port Snettisham, Stephens Passage, and local Juneau area streams, as well as Alaskan hatchery release sites. The 2018 preseason terminal run forecast of 81,000 Taku River coho salmon was below the average terminal run of 123,000 fish. The traditional District 111 coho salmon harvest of 35,600 fish was $97 \%$ of average and was comprised of a large proportion of hatchery fish. Hatchery coho salmon, mainly returning to DIPAC release sites in Gastineau Channel, first appeared in the District 111 harvest in SW 33 and made up as much as $66 \%$ of the weekly harvest in SW 37. CWT analyses indicate hatchery coho salmon contributed approximately 13,900 fish or $39 \%$ of the 2018 District 111 drift gillnet harvest.

Management of the District 111 drift gillnet fishery is based on Taku River wild sockeye salmon abundance in SWs 25-33 and on Taku River wild coho salmon abundance in SWs

34-42. The 2018 fishery began by regulation in SW 25. Management actions were limited to imposing restrictions in time, area, and gear. Because there is no bilaterally agreed forecast for Taku River sockeye salmon, early season management of the District 111 fishery is based on fishery CPUE and Canyon Island fish wheel catches. As the fishing season progresses, sufficient data is acquired to estimate the inriver run size from the inriver MR program and to use that estimate in conjunction with historical migratory timing and fishery harvest data to project the season's Taku River sockeye salmon terminal run size. In the first week of sockeye salmon management starting June 17, Taku Inlet and Stephens Passage were opened with restrictions in time, area, and gear due to Chinook salmon conservation concerns. The opening was limited to two days with a six-inch maximum mesh size restriction, night closures in effect from 10 p.m. to 4 a.m., and an area restriction closing waters in Taku Inlet north of Point Greely and west of a line of longitude running mid-inlet from the latitude of Point Greely to a point where it intersects with the Admiralty Island shoreline south of Grand Island. Effort was approximately $90 \%$ of average for the week with 28 boats fishing. The sockeye salmon harvest was $12 \%$, and the CPUE was $14 \%$ of average. TBR enhanced sockeye salmon of King Salmon Lake origin made up $2 \%$ of the Taku Inlet harvest. The total Chinook salmon harvest was 66 fish with zero fish estimated as Taku River origin large fish based on inseason CWT analysis and ASL sampling.

District 111 was again opened for two days in SW 26 with the same restrictions throughout the district as the previous opening to minimize Chinook salmon interception. The two-day opening was largely for Chinook salmon conservation but also reflected concerns over early Taku River sockeye salmon stocks, particularly the Kuthai Lake stock. The two days of fishing in the district was approximately $70 \%$ of average for the week. Sixty-four boats, $132 \%$ of average, harvested 89 Chinook salmon of which an estimated 4 fish were Taku River large fish based on inseason CWT analysis and ASL sampling. The sockeye salmon harvest and CPUE were $35 \%$ and $37 \%$ of average, respectively. TBR enhanced sockeye salmon of predominantly King Salmon Lake origin made up 5\% of the Taku Inlet harvest.

District 111 was again opened for two days in SW 27 with no additional time granted. Chinook salmon conservation measures were slightly reduced this week with open waters extended north to the latitude of Point Cooper. However, the maximum mesh size restriction and night closures remained in place throughout the opening. The two days fishing was open in the district was $65 \%$ of average. Due to increasing enhanced chum salmon abundance, effort increased from the previous week to 119 boats, $180 \%$ of average. Ninety-six Chinook salmon were harvested this week, of which an estimated zero fish were Taku River large fish based on inseason CWT analysis and ASL sampling. Sockeye salmon harvest and CPUE remained similar to the previous week at $37 \%$ and $32 \%$ of average, respectively. Otolith analysis revealed that $11 \%$ of the sockeye salmon harvest from Taku Inlet, and $50 \%$ from Stephens Passage, were of Snettisham Hatchery origin. TBR enhanced sockeye salmon of predominantly King Salmon Lake, but also Tatsamenie Lake, origins made up $6 \%$ of the Taku Inlet harvest which was the highest weekly proportion of TBR enhanced fish for the season. A Taku River sockeye salmon run size estimate was not produced this week, but Canyon Island fish wheel sockeye salmon catch rates were average to above average.

The initial opening for SW 28 was again two days in District 111 with a one-day extension granted in Stephens Passage for a total of three days south of Circle Point. Taku Inlet remained at two days of fishing, but the maximum mesh size restriction and night closures were rescinded for this opening and the northern line was moved up to Jaw Point. A sixinch minimum mesh size restriction was implemented south of Circle Point in Stephens Passage, which would stay in place until SW 31, to minimize harvest of Port Snettisham wild sockeye salmon returns while still allowing opportunity to target enhanced chum salmon. The three days fishing was open in the district was $103 \%$ of average. One hundred fifty-four boats, the highest weekly effort of the season and $155 \%$ of average, harvested 133 Chinook salmon, of which an estimated 29 fish were Taku River large fish based on inseason CWT analysis and ASL sampling. Sockeye salmon harvest and CPUE were 69\% and $46 \%$ of their respective averages. Otolith analysis revealed that $34 \%$ of the sockeye salmon harvest from Taku Inlet, and $65 \%$ from Stephens Passage, were of Snettisham Hatchery origin. TBR enhanced sockeye salmon of Tatsamenie and King Salmon lakes origin made up $4 \%$ of the Taku Inlet harvest. The first bilateral Taku River sockeye salmon run size estimate was produced this week and projected an inriver run of 75,700 fish.

Fishing time for SW 29 was set initially at three days in both Taku Inlet and Stephens Passage with Taku River sockeye salmon run size indicators both in District 111 and inriver showing increased abundance. The Jaw Point line in upper Taku Inlet remained in place for this opening as a Chinook salmon conservation measure. A one-day extension in Stephens Passage, with the minimum mesh size restriction, was granted for a total of an above-average four days of fishing in the district. The three days of fishing in Taku Inlet was the first above-average weekly period of the season there. Effort decreased slightly from the previous week with 150 boats making landings, $125 \%$ of average. Ninety-six Chinook salmon were harvested this week, of which an estimated 18 fish were Taku River large fish based on inseason CWT analysis and ASL sampling. The sockeye salmon harvest for the opening was $114 \%$ of average while CPUE was $58 \%$ of average. Otolith analysis revealed that $57 \%$ of the sockeye salmon harvest from Taku Inlet, and $79 \%$ from Stephens Passage, were of Snettisham Hatchery origin. TBR enhanced sockeye salmon of Tatsamenie and/or King Salmon lakes origin made up $2 \%$ and $1 \%$ of the harvest in Taku Inlet and Stephens Passage, respectively. This was the only opening of the season where TBR enhanced fish were represented in Stephens Passage. The weekly Taku River sockeye salmon inriver run size projection increased significantly from the previous week to 160,200 fish.

Fishing time for SW 30 was a repeat of the previous week with an initial three days in Taku Inlet and Stephens Passage followed by a one-day extension in Stephens Passage for a total of four days of fishing in the district, $129 \%$ of average for the week. The upper line in Taku Inlet was returned to the normal line just off the river flats. Effort fell from the previous week to 123 boats, $99 \%$ of average for the week. Sockeye salmon harvest was $97 \%$ of average while CPUE was $73 \%$ of average, and the 18,600 fish harvested this week was the highest traditional weekly harvest of the season. Otolith analysis revealed that $53 \%$ of the sockeye salmon harvested in Taku Inlet were of Snettisham Hatchery origin. TBR enhanced sockeye salmon of Tatsamenie and King Salmon lakes origin made up $2 \%$ of the
harvest in Taku Inlet. The weekly Taku River sockeye salmon inriver run size projection was similar to the previous week at 162,500 fish.

Fishing time for SW 31 was again initially three days in Taku Inlet and Stephens Passage. With two consecutive solid weekly Taku River sockeye salmon run size projections and effort in the district beginning to focus on the south end due to a significant pulse of sockeye salmon escapement into Speel Lake, both Taku Inlet and Stephens Passage were extended for an additional day for an above average total of four days of fishing for the week. The entrance to Port Snettisham (111-34) was also opened for the 24-hour extension and the minimum mesh size restriction south of Circle Point was rescinded. Most of the fleet moved south to fish the extension period as sockeye salmon escapement was rapidly progressing through the Speel Lake weir and fishermen wanted to stage themselves for a possible Speel Arm SHA opening. Effort decreased from the previous week to 75 boats, $72 \%$ of average, due mostly to a drop in enhanced chum salmon abundance. Sockeye salmon harvest and CPUE were $59 \%$ and $72 \%$ of their respective averages. Otolith analysis revealed that $47 \%$ of the sockeye salmon harvested in Taku Inlet were of Snettisham Hatchery origin. TBR enhanced sockeye salmon of Tatsamenie and King Salmon lakes origin made up $4 \%$ of the harvest in Taku Inlet. The weekly Taku River sockeye salmon inriver run size projection remained consistent with the previous two weeks at 157,300 fish.

Fishing time for SW 32 was initially three days in Taku Inlet and Stephens Passage (including the entrance of Port Snettisham), and the Speel Arm SHA also opened in conjunction with the remainder of the district drawing most of the early effort. Effort dropped markedly as enhanced sockeye salmon harvests in the Speel Arm SHA were not huge, and those who had been sticking around just for this opportunity departed the district. Stephens Passage and the entrance to Port Snettisham were extended for an additional day while the Speel Arm SHA was opened until further notice (the SHA would remain open until September 12) to allow continued targeting of enhanced Snettisham Hatchery sockeye salmon. Taku Inlet remained at three days with sockeye salmon CPUE rapidly declining there after the first day for the small number of boats fishing. The total fishing time of four days in the district was above average. Effort fell slightly from the previous week to 68 boats, $86 \%$ of average. Traditional (not including the Speel Arm SHA) sockeye salmon harvest and CPUE were both $47 \%$ of their respective averages. Otolith analysis indicated that $27 \%$ of the sockeye salmon harvest from Taku Inlet and $90 \%$ from Stephens Passage were of Snettisham Hatchery origin. TBR enhanced sockeye salmon did not contribute to any of the sampled harvests in Taku Inlet or Stephens Passage. The weekly Taku River sockeye salmon inriver run size projection fell from the previous week to 134,100 fish.

Fishing time for SW 33 was reduced to two days in Taku Inlet based on a falling Taku River sockeye salmon run size estimate and an apparent lack of Tatsamenie Lake fish. Stephens Passage and the entrance of Port Snettisham opened for three days and no extension was granted. The total fishing time of three days in the district was below average. Effort fell significantly from the previous opening to 25 boats, $33 \%$ of the average for the week. Sockeye salmon harvest and CPUE were $24 \%$ and $89 \%$ of their respective averages. Otolith analysis indicated that $87 \%$ of the sockeye salmon harvest from Stephens

Passage were of Snettisham Hatchery origin. The weekly Taku River sockeye salmon inriver run size projection decreased again from the previous week to 128,300 fish, and with approximately $90 \%$ of the run historically through Canyon Island at this juncture in the season, it appeared that the upper end of the spawning objective goal range would be exceeded. This was the last week of the sockeye salmon management period in District 111 with coho salmon management starting in SW 34. The first Taku River coho salmon inriver run estimate was produced this week and expanded by average run timing projected an above border run of 75,100 fish, slightly above the escapement point goal.

The fall drift gillnet season in District 111 occurred over six weeks, beginning on August 20 in SW 34, and ending on September 24 in SW 39. During this time, management in District 111 switched from being driven by Taku River sockeye to Taku River coho salmon abundance.

Fishing time for SW 34 was initially two days in Taku Inlet, Stephens Passage, and the entrance to Port Snettisham and each area was extended for an additional day, for three total days of fishing, based on above average coho salmon catch rates in the district. A well below average 28 boats made landings in the traditional fishery for the week. The sockeye salmon harvest was $38 \%$ of average, while CPUE was $60 \%$ of average. Otolith analysis indicated that $70 \%$ of the sockeye salmon harvest from Taku Inlet were of Snettisham Hatchery origin while TBR enhanced sockeye salmon made up less than $1 \%$ of the Taku Inlet harvest. The coho salmon harvest and CPUE were $112 \%$ and $174 \%$ of average, respectively. CWT analysis indicated that $52 \%$ of the coho salmon harvest for the week was comprised of Alaska hatchery fish. The proportion of hatchery coho salmon in the District 111 gillnet harvest this season was likely as high as it has ever been and was driven nearly entirely by DIPAC fish returning to Gastineau Channel. The second Taku River coho salmon inriver run estimate was produced this week and expanded by average run timing projected an above border run of 95,000 fish, a significant increase from the previous week.

Fishing time for SW 35 was again initially set at two days throughout the district with an extension granted for an additional day, for three total days of fishing, due to above average coho salmon catch rates. A total of 24 boats made landings throughout the opening, 56\% of average, with all but a couple boats fishing in Taku Inlet. Otolith analysis indicated that $85 \%$ of the sockeye salmon harvest from Taku Inlet were of Snettisham Hatchery origin. This was the last week of sockeye salmon otolith sampling for the season in District 111. Coho salmon harvest and CPUE were respectively $99 \%$ and $188 \%$ of average. CWT analysis indicated that $41 \%$ of the coho salmon harvest for the week was comprised of Alaska hatchery fish. The projected inriver run estimate for Taku River coho salmon decreased from the previous week to 80,500 fish.

Fishing time for SW 36 was initially set at three days throughout the district. An extension granted an additional day due to above average catch rates, for a total of four days of fishing for the week. A total of 34 boats, $82 \%$ of average, made landings with coho salmon harvest and CPUE at $177 \%$ and $185 \%$ of average, respectively. CWT analysis indicated that $41 \%$ of the coho salmon harvest for the week was comprised of Alaska hatchery fish.

Approximately halfway through the historical coho salmon run timing at Canyon Island, the inriver stock assessment project was significantly altered with low water levels causing in an event 1 gear switch from fish wheels to gillnets. The weekly Taku River coho salmon inriver run projection again dropped from the previous week to 75,400 fish, nearly identical to the first inseason estimate.

Fishing time for SW 37 was again initially set at three days throughout the district but no extension was granted due to falling coho salmon CPUE throughout the opening. Effort remained at 34 boats, $96 \%$ of average, and the coho salmon harvest was $118 \%$ of average while CPUE was $160 \%$ of average. CWT analysis indicated that $66 \%$ of the coho salmon harvest was comprised of Alaska hatchery fish, the highest weekly proportion of the season. The weekly Taku River coho salmon inriver run projection increased slightly from the previous week to 76,800 fish.

Fishing time for SW 38 was reduced to two days throughout the district with coho salmon abundance dropping off throughout the previous opening. No extension was granted with declining CPUE over the two-day fishery. Effort dropped to 28 boats, $109 \%$ of average, with the coho salmon harvest $62 \%$ of average while CPUE was right at average. CWT analysis indicated that Alaska hatchery fish contributed $32 \%$ to the weekly coho salmon harvest. The weekly Taku River coho salmon inriver run projection fell from the previous week to 71,300 fish.

Fishing time for SW 39 was reduced to one day throughout the district, signaling the likely end of the season. Effort dropped to seven boats, $46 \%$ of average, with coho salmon harvest and CPUE at $7 \%$ and $59 \%$ of average, respectively. CWT analysis showed a $22 \%$ contribution from Alaska hatchery fish for the week. The weekly Taku River coho salmon inriver run projection fell again from the previous week to 64,100 fish. This was the last opening of the season in District 111 and fishing ended at noon on Monday, September 24.

The 2018 District 111 fall chum salmon harvest in SWs 34-39 was $47 \%$ of the fall fishing period average. Escapement numbers for Taku River chum salmon are unknown; however, the number of chum salmon caught by the fish wheels at Canyon Island can be used as an index of escapement. The 2018 fish wheel catch of 32 chum salmon (Fish Wheel 1 and 2 only) was the lowest ever recorded. Comparisons to historical data are not as straightforward for the 2018 season as fish wheel operation times were altered significantly in efforts to address the sockeye salmon dropout rate in the MR project. This resulted in the wheels not spinning 24-hours a day as they had in the past. However, chum salmon returning to the Taku River were obviously at very low abundance.

The District 111 traditional drift gillnet pink salmon harvest of approximately 23,000 fish was $15 \%$ of average. Escapement numbers for Taku River pink salmon are unknown; however, the number of pink salmon caught by the fish wheels at Canyon Island can be used as an index of escapement. The 2018 total of 1,604 pink salmon caught in the fish wheels (Fish Wheel 1 and 2 only) was $117 \%$ of the 2016 parent-year catch, $18 \%$ of the 1998-2016 even-year average, and is the second lowest catch recorded. The pink salmon escapement to the Taku River is characterized as below average.

Several other fisheries in the Juneau area harvested transboundary Taku River salmon stocks in 2018. Several Chinook salmon stocks are known to contribute to the Juneau area sport fishery, including wild fish from the Chilkat River, as well as hatchery stocks, but the major contributor of large, wild fish is the Taku River. Of the Chinook salmon harvested in the sport fishery, 9 fish were estimated to be of Taku River origin through SW 29 based on postseason GSI analysis. Personal use permits were used to harvest an estimated 1,600 Taku River sockeye salmon along with an estimated incidental harvest of 10 Taku River large Chinook salmon. The District 111 Amalga Harbor SHA common property purse seine fishery, northwest of Juneau, was conducted for the seventh consecutive season to target returning DIPAC enhanced summer chum salmon. There were four total openings in 2018, occurring on Thursdays in July, each lasting nine hours. Some portion of the incidental sockeye salmon harvest from these fisheries is assumed to be of Taku River origin, but the magnitude of the contribution is unknown. GSI analysis of the 2013 and 2014 harvests averaged 35\% Taku River origin. No GSI analysis was conducted in 2018. Incidental sockeye salmon harvest in the 2018 Amalga Harbor purse seine fishery was 2,300 fish. Otolith analysis indicated that $48 \%$ were enhanced fish of DIPAC origin, and $1.4 \%$ were enhanced fish of TBR origin.

## Canadian Fisheries

The Taku River commercial fishery harvest was 17,974 sockeye and 9,503 coho salmon in 2018. No Chinook were harvested. Sockeye salmon originating from Taku fry plants contributed an estimated 923 fish to the harvest, comprising $5.1 \%$ of the total commercial sockeye salmon harvest. As a result of poor preseason run forecasts and lack of inseason information, there was no directed commercial Chinook salmon fishery in 2018 and all incidental catches in commercial fisheries for sockeye salmon were released. In addition, the Chinook salmon assessment fishery did not occur in 2018. Harvest of sockeye and coho salmon were slightly below and above average respectively. There were 38 days of fishing which was well below average. The seasonal fishing effort of 237 boat days was also well below average. As is typical, both set and drift gillnets were used, with the majority of the harvest taken in drift gillnets. The maximum allowable mesh size was 14.0 cm ( 5.5 inches) for the early part of the season to minimize the incidental catch of Chinook salmon. This was subsequently increased to 20.4 cm ( 8.0 inches).

In addition to the commercial fishery harvest, 19 nonlarge Chinook, 7 large Chinook, 14 sockeye, and 2 coho salmon were harvested in the Aboriginal fishery. All but one of the Chinook salmon was harvested from the Nakina River. On average, 88 large Chinook, 13 nonlarge Chinook, 162 sockeye and 127 coho salmon are harvested annually in the Aboriginal fishery.

As a result of the preseason forecast being well below the goal range, retention of Chinook salmon of any size was not permitted in the recreational fishery effective May 7, 2018. Complete recreational harvest figures are not available, but the harvests of other salmon species are thought to have been negligible.

At a run size of this magnitude, factoring in the MSY escapement point target of 25,500 fish, there was no AC for either the U.S. or Canada based on the preseason forecast and therefore, a directed Chinook salmon fishery was not prosecuted.

Typically, the inseason management of Taku River Chinook salmon depends on abundance estimates generated from the joint MR program in the lower Taku River with tags being applied below the border and recoveries being made in the Canadian assessment and/or commercial fisheries. In recent years, when the preseason forecast or inseason projections have indicated no AC, the commercial fishery has operated in an assessment mode and served as the test fishery identified in the PST agreement. In 2018, as in 2017, the preseason forecast was so low that the assessment fishery did not occur. As such, the preseason forecast was used to make necessary adjustments in the other fisheries with the intention of eliminating the harvest of Chinook salmon.

Due to the poor large Chinook salmon forecast (coupled with ongoing Kuthai Lake sockeye concerns), the start of the directed commercial fishery for sockeye salmon was delayed by nine days. The first opening was noon Tuesday, June 26 (SW26) and this was held to a 24hour period. Additional measures were also implemented based on Chinook salmon considerations. As per the 2018 Taku River commercial conditions of licence, the harvest of Chinook salmon was not permitted. In addition, the use of set gillnets was not permitted for the first commercial opening (SW26) to allow for the release of healthy Chinook salmon. A maximum mesh size restriction of 140 mm (approximately 5.5 inches) was in effect through SW29 (ending July 21). The second opening was also kept short, i.e. was limited to 48-hours only.

The preseason forecast of 159,900 wild Taku sockeye salmon with an enhanced run size forecast of 9,500 fish provided Canada with a $21 \%$ share of the TAC, with management based on weekly estimates of the TAC of wild fish. Subtracting the escapement target of 75,000 wild sockeye salmon from the forecast of 159,900 fish resulted in an overall preseason TAC of 84,900 fish; $21 \%$ of that was approximately 17,800 fish.

The forecast for the run of wild Tatsamenie fish was 13,200 fish, above the average of approximately 9,400 fish. The egg-take goal for the 2018 season was based on a target of $30 \%$ of the escapement up to a maximum of 2.5 million eggs. During SWs 31-33 (July 29August 18), management attention focused on Tatsamenie sockeye salmon to ensure an adequate number of sockeye salmon escaped to Tatsamenie Lake to support wild production and egg-take objectives.

As in past years, guideline harvests were developed each week for both sockeye and coho salmon fisheries to guide management decisions so that: a) the catch was consistent with conservation and Treaty goals; and b) management was responsive to changes in projections of abundance (i.e., abundance-based management).

Fishing periods were set with a view to achieving weekly guideline harvests. Extensions to weekly fishing periods were considered if the weekly guidelines were not achieved. For both drift and set gillnets, net length was restricted to a maximum of $36.6 \mathrm{~m}(120 \mathrm{ft}$.); mesh
sizes were restricted to between 100 mm (4 inches) and 204 mm (8 inches) except for the period prior to July 22 (SW 30) when the maximum permissible was 140 mm ( 5.5 inches) to reduce the bycatch of Chinook salmon.

The following summarizes the fishery management on a weekly basis and generally captures harvest estimates and stock assessment information made inseason. Sockeye salmon harvests in relation to run projections are for wild fish; CPUE data is for wild and enhanced fish combined. Guideline harvests presented in Table 8 are based on run projections made the previous week; additionally, those identified in the verbiage were generally based on the previous week's run projection. Harvests in verbiage may differ slightly from those in Table 8 as they reflect inseason information. Weekly enhanced contributions to the overall harvest are based on calculations made inseason. Guidelines identified in Table. 8 were set using a 21:79 harvest split for the entire sockeye salmon management period.

The management plan indicated that the sockeye salmon fishery would be delayed over a week and commence at noon Tuesday, June 26 (SW26) restricted to a maximum of a 48hour period due to the poor large Chinook salmon forecast and the low return observed at Kuthai Lake over the last ten-years including the 2013 brood year. Additional modifications were made to address Chinook salmon management concerns. For 2018, as per the Taku River commercial conditions of licence, the harvest of Chinook salmon was not permitted. In addition, for the first commercial opening, fishing gear was restricted to drift nets (i.e. set gillnets were not permitted) in order to allow for the release of Chinook salmon. A maximum mesh size restriction of 140 mm (approximately 5.5 inches) was in effect through SW29 (ending July 21).

The weekly guideline for SW 26 based on the preseason forecast was 1,005 wild fish (Table 8). Weekly effort included four licenses, which was below average. Based on a 20 -hour hail, the CPUE of 62 fbd was close to the weekly average of 64 fbd . Water levels dropped rapidly over the course of the opening from average to well below average. The fishery opened on one day. No extension was allowed in light of the sockeye salmon catch rates (factoring in favourable water levels) and Chinook salmon bycatch. The one day opening resulted in a weekly harvest of 247 sockeye salmon.

The fishery was opened for 2 days in statistical week 27 (July 1-July 7). The set gillnet restriction was lifted however, as noted above, licence conditions did not permit retention of Chinook salmon for the duration of the fishing season. The weekly guideline harvest for the week, based on the preseason forecast, was 1,277 sockeye salmon. Seven licenses fished during this opening and CPUE was 44 fbd , below the weekly average of 60 fbd . As a result of the lower than average CPUE, no extensions occurred. Water levels rose from well below average to average for the fishing period. Weekly catch totals were 559 wild sockeye salmon. In addition, 59 enhanced sockeye salmon (49 King Salmon Lake origin and ten Stikine River origin) were harvested.

Table 7. Canadian inseason forecasts of terminal run size, total allowable catch (TAC), and spawning escapement of wild Taku River sockeye salmon, 2018.

|  | Terminal |  | Projected | Canadian | Weekly | Surplus | Actual |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| SW | Run | TAC | Escapement | AC | Guideline | AC* | Catch |
| 26 | 159,900 | 84,900 | 75,000 | 17,829 | 1,005 | 0 | 238 |
| 27 | 159,900 | 84,900 | 75,000 | 17,829 | 1,277 | 0 | 561 |
| 28 | 159,900 | 84,900 | 75,000 | 17,829 | 1,790 | 593 | 1,982 |
| 29 | 157,668 | 82,668 | 137,405 | 17,360 | 2,027 | 0 | 2,553 |
| 30 | 140,034 | 65,034 | 111,365 | 13,657 | 2,017 | 0 | 6,111 |
| 31 | 158,704 | 83,704 | 118,140 | 17,578 | 2,545 | 261 | 2,280 |
| 32 | 171,811 | 96,811 | 126,731 | 20,330 | 2,332 | 0 | 685 |
| 33 | 157,744 | 82,744 | 113,629 | 17,376 | 984 | 0 | 558 |

Note: Terminal run assessments and weekly guidelines based on previous week's run size projections. *Surplus AC was calculated using the final estimate for each SW.

In statistical week 28 (July 8-14), the fishery was initially opened for two days. Based on the preseason forecast, the weekly guideline was set at $\sim 1,800$ sockeye salmon. Based on above average harvest rates on Day 1 ( 117 versus 66 fbd) the opening was extended for 24 hours. The weekly harvest was 1,986 wild sockeye salmon (plus 184 enhanced sockeye salmon of King Salmon Lake origin). A total of 32 large Chinook salmon were released. Weekly licenses fishing averaged 7.3. Water levels were below long term averages. The weekly sockeye salmon CPUE was 99 fbd and was above the average for SW 28 of 66 fbd . The run projection made after the close of the fishery in SW 28 was 157,668 fish; this projection was close to the preseason run projection.

Using the previous week's projection, the weekly guideline for SW 29 (July 16-22) was 2,027 sockeye salmon. An opening of two days was initially posted. The harvest for day 1 was 765 sockeye and a 1 day extension was added. Water levels were well below average but rising for days 1 and 2. The CPUE for SW 29 (124 fbd) was well above average (89 fbd). The weekly harvest was 2,531 sockeye salmon (plus 171 enhanced sockeye salmon mostly from King Salmon and Tatsamenie origin). The number of licenses fishing for the week once again averaged 7.3, which was below the average of 7.7. A run projection of 140,034 fish, made after the end of the fishery, was below the estimate generated the previous week.

The fishery in statistical week 30 (July 22-28) was opened on 2-days. In light of strong harvest rates and good fish wheel catches, the fishery was opened for two additional 24hour periods. The weekly guideline was set at 2,017 sockeye salmon. River levels were below average to start the week but increased to average by day 3 . The weekly CPUE (196 fbd) was well above average ( 123 fbd ). The weekly harvest was 5,830 wild and 163 enhanced fish, which were mostly of Tatsamenie origin. The cumulative sockeye salmon harvest after week 30 was $\sim 11,200$ wild fish, slightly above the cumulative guideline of $\sim 10,400$ fish. The number of licenses that fished in SW 30 was 8.0 , close to the average of 8.6. After day 3 of the fishery, a run projection of 158,704 fish was made which was above the SW 29 estimate and close to the preseason forecast.

For SW 31 (July 29-August 4), the weekly guideline was set at $\sim 2,500$ sockeye salmon based on run outlook from SW 30. The initial opening was two days. The fishing period was extended by 24 hours as a result of near average harvest rates, and was extended an additional day as harvest rates continued to improve. Run projections made during the openings suggested an increasing run size. The weekly harvest rate ( 109 fbd ) was below average ( 127 fbd ), and an average of 7.3 licenses fished. The weekly catch was 4,923 wild and 487 enhanced Tatsamenie fish. The river level was slightly above average. The final weekly run projection was 171,811 , another increase over the previous week.

The fishery in statistical week 32 (August 5-11) was initially opened for 2-days. The weekly guideline was $\sim 2,300$ fish based on the final run projection in SW 31. The combined harvest for days 1 and 2 was $\sim 700$ fish and a one day extension was added. Water levels were slightly above average, and then spiked on day 3 . This peak was the result of high water in the Tulsequah River leading to poor fishing success. The weekly CPUE was 34 fbd , compared to an average of 119 fbd , for 8.7 licenses. The weekly harvest was 685 wild and 56 enhanced Tatsamenie sockeye salmon. Licenses fished were 7.3 versus an average of 8.9 for the week. The terminal run projection made after day $3,157,744$ sockeye salmon, was back down to the preseason forecast level.

Statistical week 33 (August 12-18) started with a weekly guideline harvest of $\sim 1,000$ fish and an opening of 2 days. Harvest rates for day 1 were less than half of average despite falling water levels from the Tulsequah flood which had peaked about 2 days earlier. A hail on the morning of day 2 indicated a harvest of only 180 sockeye salmon; consequently, the fishery was held to 2 days. Licenses fished were 8.0, compared to a weekly average of 8.4. Catches were similar to those of week 32, with only 558 wild and 33 enhanced Tatsamenie sockeye harvested.

Statistical week 33 marked the end of the directed sockeye salmon fishery. The run projection after SW 33 was 145,516 wild fish and was lower than the preseason forecast of $159,900 \mathrm{fish}$; the cumulative weekly inseason guideline was $\sim 13,500$ fish at a $21 \%$ harvest share. The actual harvest of wild fish was 14,967 fish. The escapement projection was $\sim 104,000$ wild fish and was above the goal range of 71,000 to 80,000 fish.

Adding the wild sockeye salmon taken in the directed coho salmon fishery ( 2,181 fish ) increased the total commercial harvest to 17,025 wild fish. The inseason harvest estimate of enhanced Taku River sockeye salmon was 923 fish which included 416 fish from King Salmon Lake and 508 fish from Tatsamenie Lake. A small number (26) of Stikine enhanced origin fish were also harvested.

Postseason figures for the above are presented in the Sockeye Salmon Run Reconstruction section.

Based on the terminal run forecast of Taku River coho salmon in 2018 a directed Canadian harvest of 5,000 fish was permitted starting in SW 34 for assessment purposes. Canada was also permitted to harvest all coho salmon in excess of 70,000 fish plus the fish allocated for assessment purposes.

Statistical week 34 (August 19-25) was open for 2-days based on the inriver projection of approximately 75,000 fish. Above average coho harvest rates after day one resulted in a 24-hour extension. Hharvest rates for the week ( 63 fbd ) were above average ( 52 fbd ) but sockeye salmon harvests ( 50 fbd ) were average ( 52 fbd ). Fishing conditions were excellent, with record low water levels. The number of licenses was above average ( 8 licenses compared to the SW 34 average of $\sim 7$ ). A total of 1,513 coho salmon were landed plus $\sim 1,200$ sockeye salmon (including 39 enhanced Tatsamenie fish). The MR estimate after day 3 indicated that 29,256 fish had crossed the border; this projected to an inriver run of 94,987 fish, above both the projection made in SW 33 and the preseason forecast.

Statistical week 35 (August 26-September 1) was opened for 2-days based on the inriver projection of $\sim 95,000$ fish. The opening was extended for two additional 24 -hour periods to meet a coho salmon guideline of $\sim 1,300$ fish. Coho salmon harvest rates for the week were slightly below average ( 56 fbd compared to average of 66 fbd ). A coho salmon run projection made after day $4(80,500$ fish) was lower than the SW 34 projection but matched the preseason forecast. Water levels were near average, and 7.5 licenses fished for the week. A total of 1,676 coho salmon and 552 sockeye salmon were harvested (including 48 enhanced Tatsamenie fish).

Statistical week 36 (September 2-8) was opened on 2-days based on the SW 35 inriver projection of $\sim 81,000$ fish and extended an additional 2-days. Coho salmon harvest rates for the week were above average ( 94 fbd compared to an average of 74 fbd ), and sockeye salmon continued with poor harvest rates for the time of the year ( 18 fbd compared to an average of 53 fbd ). Water levels started below average and continued to drop rapidly over the course of the week. Six licenses fished for the week which was close to the average of between 5 and 6 licenses. A total of 2,262 coho salmon and $\sim 300$ wild sockeye salmon were harvested (plus 30 enhanced Tatsamenie fish). The coho salmon run projection made at the close of SW 36 was 75,425 fish.

Statistical week 37 (September 9-15) was opened for 2-days based on this projection. The opening was extended for two days with only two licenses fishing. Water levels were again extremely low and generally dropping over the course of the fishery. Coho salmon harvest rates were above average ( 155 fbd versus 54 fbd ), and sockeye salmon harvests remained high and well above the average for this time of year ( 13 fbd compared to an average of 27 fbd). A coho salmon inriver run projection made after day 4 ( 76,838 fish) was similar to the SW 36 estimate. A total of 1,243 coho salmon and 82 sockeye salmon were harvested (including 7 enhanced Tatsamenie fish).

Statistical week 38 (September 16-October 13) was posted for 2-days and no extensions were granted. Again, only 2 licenses fished. A total of 551 coho salmon and 29 sockeye salmon were caught. Coho salmon CPUE was 138 fbd vs an average of 118 fbd . Water levels as identified at Canyon Island were record low and below the gauge. SW 38 marked the end of the directed coho salmon fishery. The coho salmon inriver run projection made after closing was 71,275 fish. The harvest prior to SW 34 was 2,258 fish. SW 34-38 harvest was 7,245 coho salmon, resulting in a season total of 9,503 fish.

## Escapement

## Sockeye Salmon

The above border run size of sockeye salmon into the Canadian portion of the Taku River drainage is estimated from a joint Canada/U.S. MR program that has been operated annually since 1984. There were significant improvements made to the operational plan for the MR program in 2018, largely focused on improved holding and handling practices for fish captured in the fishwheels.

Escapement projects conducted by Canada provide information on the abundance of discrete lake spawning stocks within the watershed. Traditional counting weirs were operated by DFO at Little Trapper and Tatsamenie lakes, and video counting weirs were piloted by the TRTFN at Kuthai and King Salmon lakes.

Spawning escapement is estimated by subtracting the inriver harvest from the above border run size estimate. The postseason estimates of the above border run in 2018 is 136,995 unadjusted and adjusted 116,427 fish; subtracting the inriver harvest of 17,962 Taku fish ( 17,948 commercial and 14 Aboriginal fish) estimates that 119,033 unadjusted and adjusted 98,465 sockeye salmon reached the spawning grounds. The Taku River wild spawning escapement was slightly above average, and above the interim escapement goal range of 71,000 to 80,000 wild sockeye salmon. The Canyon Island catch in the fish wheels was 3,239 sockeye salmon

The sockeye salmon count through the Kuthai Lake video weir was 13 fish; a nearly complete run failure in 2018. Kuthai fish appeared present in the lower Taku River run in reasonable numbers (will be confirmed by GSI results to come), and spaghetti tagging and radio telemetry projects show that many Kuthai Lake destined fish reached the lower Silver Salmon River (the tributary to Kuthai Lake). However, low water levels in the Silver Salmon River created passage issues in the lower canyon. TRTFN observations of unsuccessful fish jump attempts at the passage challenges, which combined with telemetry results that show no tagged fish succeeding in passage, support the weir data that show a run failure due to passage issues. These passage challenges are not new and have been monitored for several years by TRTFN, but the low water and reduced flows in 2018 exacerbated the challenges. TRTFN has been implementing small ongoing restoration projects incrementally addressing identified passage challenges since 2016, but the major challenges were not addressed prior to 2018. Additional restoration work planned for the spring of 2018 was completed in fall 2018 at what is believed to be one of the significant challenges that prevented migration in 2018, but it remains unknown if passage will be assured in future years at a range of flows. The 2018 count was well below the average of 907 fish and $1 \%$ of the primary brood year (2013) escapement estimate of 1,195 fish.

The King Salmon Lake weir count of 3,180 fish was above the average of 2,450 fish and $356 \%$ of the primary brood year (2014) escapement estimate of 894 fish. Based on thermal mark data, $27 \%$ of the run was enhanced fish.

The Little Trapper Lake weir count was 8,249 sockeye salmon was above average and $170 \%$ of the 2013 primary brood year count of 4,840 fish. The overall run timing was average, but something appeared so hold many fish up early in the run, with a large pulse of fish arriving late on August 19 and 20. Also of note in 2018 at Little Trapper Lake was the significantly skewed sex ratio of returning sockeye salmon; females comprised only $19 \%$ of the run. Because of the late arrival of most fish and the low female proportion, no fish were removed for broodstock in 2018.

The Tatsamenie Lake weir count was 5,086 sockeye salmon below the average of 11,207 fish and the 2013 primary brood year count of 10,246 fish. The run started about one week late with two peaks, one on August 27 and another September 7-11. Based on thermal mark data $29 \%$ of the run was enhanced fish. There was a total of 1,700 fish removals which included 1,295 fish for broodstock, 9 fish mortalities, and 396 fish held and released unspawned.

## Chinook Salmon

Spawning escapement of Chinook salmon in the Canadian portion of the Taku drainage was estimated from the joint Canada/U.S. MR program. Spaghetti and radio tag application took place from April 28 through June 30 using a drift gillnet to capture fish in the lower river near the Wright River just downstream of the U.S./Canada border. Catches in the drift gillnet accounted for $100 \%$ of the tags applied to all size Chinook salmon. There was no inseason event 2 component in 2018 since no assessment fishery or directed fishing for Chinook salmon was permitted due to the low preseason forecast. Also, Chinook salmon were required to be released in the inriver commercial sockeye salmon fishery because of low abundance. Spawning ground sampling occurred in July through September on the Nakina, Tatsatua, Kowatua, Nahlin, and Dudidontu rivers, as well as on Tseta Creek. In addition, a sonar weir was operated from June 1-July 27 on the lower Nahlin River to enumerate large Chinook salmon passing upriver. An insufficient number of large Chinook salmon spaghetti tags were recovered in the combined spawning grounds sample to generate a MR abundance estimate for large Chinook salmon.

The 2018 postseason Chinook salmon escapement estimate of 7,271 large fish was generated using radio tags applied in the lower river drift gillnet as Event 1, and only included radio tags that reached known spawning locations. Event 2 recapture combined the Nahlin sonar count and relevant spawning ground samples. This estimate is well below the average escapement of 21,619 large fish, and well below the escapement goal range of 19,000 to 36,000 large Chinook salmon.

Aerial surveys of large Chinook salmon to the five escapement index areas were as follows: Nakina 765 fish; Kowatua 202 fish; Tatsamenie 121 fish; Dudidontu 363 fish; and Nahlin 268 fish; all sites were below average. Viewing conditions were excellent with very low and clear water for all surveys and the total peak count of 1,719 large Chinook salmon which expands to 8,939 large fish using an expansion factor of 5.2.

## Coho Salmon

Spawning escapement of coho salmon in the Canadian portion of the Taku drainage was estimated from the joint Canada/U.S. MR program. Tag application occurred from July 4 (SW 27) until September 28 (SW 39) and recovery occurred until October 4 (SW 40). Tag application was conducted at the CYI fishwheels until September 2, augmented by gillnetting from September 8 to 28 . The tag recovery effort consisted of Canadian commercial fisheries followed by test fishery which commenced September 22 (SW 38). In 2018, the test fishery was a live release set gillnet program operated by DFO cooperatively with the TRTFN that caught and released 244 coho salmon.

The postseason inriver MR estimate is 60,678 fish. Taking into account the inriver harvest of 9,505 fish ( 9,503 commercial and 2 Aboriginal fish) the spawning escapement estimate was 51,173 fish. This was below the average escapement ( 86,569 fish) and within the biological escapement goal range of 50,000-90,000 fish.

## Pink Salmon

There is no program to estimate the escapement of Taku River pink salmon; however, the Canyon Island fish wheels were used as an index of escapement. A total of 1,604 pink salmon were captured in 2018. This is below the even year average.

## Chum Salmon

Chum salmon escapement numbers to the Taku River are unknown; however, the numbers of fall chum captured by the fish wheels at Canyon Island were used as an index of escapement. A total of 32 chum salmon were captured in 2018; below average.

## Sockeye Salmon Run Reconstruction

An estimated 24,472 wild and 1,431 enhanced Taku sockeye salmon were harvested in the traditional U.S. District 111 drift gillnet fishery. This estimate was made by postseason GSI and otolith analysis. An additional 1,527 wild and 85 sockeye salmon were estimated to have been taken in the U.S. inriver personal use fishery. The estimated total U.S. harvest of Taku sockeye salmon is 25,999 wild and 1,516 enhanced fish (Table 4).

In the Canadian commercial fishery, the postseason harvest estimate of Taku sockeye salmon is 17,024 wild, 508 enhanced Tatsamenie Lake, and 416 enhanced King Salmon Lake fish. Also, harvested was 26 from the Stikine River enhanced fish, and 0 fish from U.S. domestic stocks; total Canadian commercial harvest was 17,974 (17,948 Taku fish and 26 non-Taku enhanced fish). An estimated 0 wild and 0 enhanced sockeye salmon were taken in the Canadian Aboriginal fishery. Therefore, the estimated Canadian treaty harvest of Taku sockeye salmon is 17,024 wild and 923 enhanced fish (Table 4). The coho test fishery did not harvest any sockeye salmon.

The postseason estimate of the above border run size of sockeye salmon, based on the joint Canada/U.S. MR program is 136,995 fish unadjusted estimate and 116,427 fish adjusted.

Deducting the Canadian inriver harvest noted above from the above border run estimate results in an estimated escapement of 119,033 fish unadjusted estimate and 98,465 fish adjusted estimate; 116,658 wild fish unadjusted estimate and 96,089 wild fish adjusted. The escapement of Taku River sockeye salmon originating from the fry planting program was estimated to be 2,376 fish from broodstock otoliths collected at Tatsamenie and King Salmon lakes. The terminal run of Taku River sockeye salmon is estimated at 164,509 fish unadjusted estimate and 143,941 fish adjusted estimate; 159,694 wild fish unadjusted estimate and 139,126 wild fish adjusted estimate and 4,815 enhanced fish. Based on the escapement goal of 75,000 wild fish, the wild TAC was 84,694 fish unadjusted estimate and wild TAC was 64,216 adjusted fish; combining wild and enhanced terminal run the TAC was 89,509 fish unadjusted estimate and TAC 68,941 fish adjusted. The harvest sharing agreement based on total terminal enhanced run was $80 \%$ U.S. and $20 \%$ Canada.


#### Abstract

ALSEK RIVER Alsek River salmon stocks contribute to the U.S. commercial gillnet fisheries located in Dry Bay, at the mouth of the Alsek River (Figure 3). Unknown quantities of Alsek River origin fish may also be taken in the U.S. commercial gillnet and troll fisheries in the Yakutat area. No commercial fishery exists in the Canadian portions of the Alsek River drainage, although Aboriginal and recreational fisheries occur in the Tatshenshini River and some of its headwater tributaries (Figure 3).


## Harvest Regulations \& Management Objectives

Although harvest sharing of Alsek River salmon stocks between Canada and the U.S. has not yet been specified, Annex IV does call for the development and implementation of cooperative abundance-based management plans and programs for Alsek River Chinook and sockeye salmon. In February 2013, the bilateral TTC and bilateral TBR Panel agreed to the revised biological escapement goals for Alsek River Chinook and sockeye salmon. These were Alsek River Chinook salmon MSY target of 4,700 fish (escapement goal range 3,500-5,300 fish), Klukshu River Chinook salmon MSY target of 1,000 fish (escapement goal range of 800-1,200 fish), Alsek River sockeye salmon MSY target of 29,700 fish (escapement goal range of 24,000-33,500 fish), and Klukshu River sockeye salmon MSY target of 9,700 fish (escapement goal range 7,500-11,000 fish). Since 1976 the principle escapement monitoring tool for Chinook and sockeye salmon stocks on the Alsek River is the Klukshu River salmon counts, a project operated by DFO in cooperation with the CAFN. MR programs to estimate the total inriver abundance and the portion of escapement contributed by Klukshu stocks operated from 1997 to 2005 for Chinook salmon, and from 2000 to 2005 for sockeye salmon. Currently, total Alsek River run estimates for sockeye salmon are generated using Dry Bay commercial sample GSI analysis to expand the Klukshu River counts.


Figure 3. The Alsek River and principal U.S. and Canadian fishing areas.

## Preseason Forecasts

The preseason forecast for Klukshu River Chinook salmon escapement in 2018 was 7001,250 fish. These forecasts are below the average of approximately 1,400 fish and bracket the escapement goal range of $800-1,200$ Chinook salmon. Two models were used in forecasting: a sibling model ( 700 fish) and a stock recruit model ( 1,250 fish). The sibling model uses 2017 returns of age 4 (BY 2013) and age 5 (BY 2012) Chinook salmon to predict the returns of age 5 (BY 2013) and age 6 (BY 2012) in 2018 using the relationships observed between age classes over the past ten years corrected with the 5 -year average (2013-2017) model error. The stock recruit model forecast is based on 23 years of Klukshu

Chinook production data and was discounted using the 5-year average (2013-2017) model error (45\%).

The 2018 Alsek River sockeye salmon run was expected to be approximately 28,200 fish; this was well below the average run size estimate of approximately 76,000 sockeye salmon. The outlook for 2018 was based on a predicted run of 6,500 Klukshu River sockeye salmon, well below the average of approximately 14,000 fish, and just below the Klukshu River escapement goal of 7,500 to 11,000 sockeye salmon. The forecast was derived from the latest Klukshu River stock-recruitment data and a Klukshu River contribution to the total run of $23 \%$ (2011 Eggers et al.), based on MR results (2000-2004) and run size estimates using GSI (2005-2006, 2011). Principal contributing brood years were 2013 (Klukshu River escapement of 3,792 sockeye salmon) and 2014 (Klukshu River escapement of 12,148 sockeye salmon).

Information from coho salmon partial escapement counts at the Klukshu River in 2014 ( 341 fish) and 2015 ( 1,810 fish) suggested the 2018 run would be above the recent average of approximately 2,300 coho salmon.

## U.S. Fisheries

Preseason expectations were for below average Chinook and sockeye salmon runs. These projections were based on parent-year escapements to the Klukshu River. In 2018, the Alsek River recorded a below average run for sockeye salmon and the lower bound of Klukshu River escapement goal range was not attained. Chinook salmon runs were also below average in 2018, however the escapement goal as measured at the Klukshu River was achieved.

As a Chinook salmon conservation measure, the 2018 Alsek River commercial set gillnet fishery was delayed by two weeks in 2018. The fishery opened for 24 -hours on Sunday, June 17 (SW 25). Traditionally, inseason management decisions were made by monitoring fishery performance data and comparing it to historical CPUE for a given opening to adjust time and area openings. Further restrictions were implemented in the fishery this year due to extremely poor sockeye salmon returns to the Yakutat District. The Alsek River commercial fishery did not open during SW 27 as an area-wide sockeye salmon conservation measure. The fishery reopened during SW 28 for 12 hours and closed again SW 29. Chinook and sockeye salmon harvests were both below average throughout the duration of the directed sockeye salmon fishery. The total number of individual permits fished during the season was 10 , which was below the 10 -year average of 17 permits. Peak sockeye salmon harvest occurred during SW 30 with 10 permits harvesting 471 fish. Effort started to decline by SW 31 and by SW 33 coho salmon management strategies were in place. Coho salmon are targeted starting in mid-August and effort typically drops during the fall due to or lack of pilots and aircrafts to transport the product to town. Fishing times remained at three days per week throughout the duration of the coho salmon season. Nearly three weeks of extreme flooding made for poor fishing conditions which resulted in virtually no fishing effort or coho salmon harvest in 2018. The commercial fishing season closed on October 10.

The 2018 Dry Bay commercial set gillnet fishery harvested 88 Chinook, 1,363 sockeye, and two coho salmon (Table 9). There was no chum or pink salmon harvested. A test fishery for Chinook salmon was conducted in the Alaska portion of the Alsek River in 2005-2008 and from 2011-2012. Test fishing ceased in 2014.

## Canadian Fisheries

Due to the below average and well below average preseason forecasts for Klukshu River Chinook and sockeye salmon respectively, reinforced by low early inseason numbers, the CAFN passed a no-fishing resolution for its members in July. As a result no salmon were harvested in the Aboriginal fishery in 2018. The recent average catches are 61 Chinook, 1,034 sockeye, and 4 coho salmon.

Similarly, the Tatshenshini River recreational fishery was not permitted to retain Chinook or sockeye salmon. In addition, catch and release angling for Chinook salmon was discouraged due to the low abundance. The recreational fishery was opened for coho salmon with harvest limits of 2 per day and 4 in possession. An estimated 7 Chinook and 0 sockeye salmon were caught and subsequently released. There were no reports of coho salmon harvest although this is considered incomplete as fishing may have taken place after monitoring had ceased.

Management of salmon in Yukon is a shared responsibility between DFO and the Yukon Salmon Sub-Committee (YSSC). The YSSC was established in 1995 pursuant to the Comprehensive Land Claim Umbrella Final Agreement between the Government of Canada, the Council for Yukon Indians and the Government of the Yukon. The Committee is a public board consisting of ten members, $70 \%$ of which are appointed by Yukon First Nations. Two CAFN members sit on the YSSC. Although the Committee currently operates by consensus, the voting structure of the Committee is organized so that, should a vote be necessary, $50 \%$ of the votes reside with appointees of Yukon First Nations.

Table 8. Klukshu River harvest and escapement for the Chinook and sockeye salmon and Alsek River harvest for Chinook and sockeye salmon for 2018.

|  | Chinook | Sockeye |
| :--- | ---: | ---: |
| Klukshu River $^{\text {a }}$ |  |  |
| Weir count | 1,087 | 7,143 |
| Harvest at/above weir | 0 | 0 |
| Escapement | 1,087 | 7,143 |
|  |  |  |
| Harvest $^{\text {b }}$ |  |  |
| U.S. Commercial | 88 | 1,363 |
| U.S. Subsistence/P.U. | 28 | 142 |
| U.S. Test |  |  |
| Canadian Aboriginal | 0 | 0 |
| Canadian Recreational | 0 | 0 |

Alsek River

Not enough US fishing to get sufficient samples to produce estimate
a Klukshu River salmon stocks represent an assumed large and variable portion of the total Alsek River salmon escapement.
b U.S. harvest estimate differs from Joint Interception Committee estimate because no estimates are made for harvest other than the listed fisheries.

The 2018 Alsek-Tatshenshini management plan, adopted by CAFN, YSSC, and DFO, was based on the escapement objectives described in the Harvest Regulations \& Management Objectives section above. For Chinook salmon and early run sockeye salmon management, the Klukshu River counts were reviewed in mid-July to determine if changes to the recreational fishery were warranted. Run projections for both Chinook and sockeye salmon remained poor resulting in no change to the non-retention restrictions. The status of the sockeye salmon was also reviewed in late August and no changes were made to the nonretention restriction due to the sockeye salmon run projection being below the minimum escapement goal. Other key elements of the plan are described below.

The center of Aboriginal fishing activity in the Alsek River drainage occurs at the CAFN village of Klukshu, on the Haines Road, about 60 km south of Haines Junction. Salmon are harvested by means of gaff, small gillnets, sport rods, and traditional fish traps as the fish migrate up the Klukshu River and into Klukshu Lake. The fishing plan for the Aboriginal fishery in the Klukshu River and adjacent areas allowed for fishing by any means (as established in the communal license) 7 days a week. Conservation thresholds that might invoke restrictions in the Aboriginal fishery were projected Klukshu River counts of < 800 Chinook, $<1,500$ early, and $<7,500$ total sockeye salmon. Fishing also occurs on Village Creek and in the headwaters of the Tatshenshini River and tributaries thereof (Goat Creek,

Stanley Creek, Parton River, and the Blanchard River). The plan did not restrict the fishery other than to reserve harvests of Chinook salmon at Goat Creek, Stanley Creek, and the Parton River for elders only. However, as noted above, a no-fishing resolution for Chinook and sockeye salmon was passed by CAFN in July.

The majority of the recreational fishing effort in the Alsek River drainage occurs in the Tatshenshini River, at and just downstream of the mouth of the Klukshu River in the vicinity of the abandoned settlement of Dalton Post. The management plan prohibited the retention of Chinook and sockeye salmon in the recreational fishery due to conservation concerns. For coho salmon, the daily catch and possession limits were two and four fish, respectively. Recreational fishing for coho salmon was permitted in the Tatshenshini River seven days a week. Conservation thresholds that had the potential to invoke lifting of restrictions in the recreational fishery were projected Klukshu River counts significantly greater than 1,000 Chinook, 4,500 early run sockeye salmon and 10,500 early / late run combined sockeye salmon.

A mandatory Yukon Salmon Conservation Catch Card (YSCCC), introduced by the YSSC in 1999, was required by all recreational salmon fishers in 2018. The purpose of the YSCCC is to improve harvest estimates and to serve as a statistical base to ascertain the importance of salmon to the Yukon recreational fishery. Anglers are required to report their catch via email or mail by the late fall. Information requested includes the number, sex, size, date and location of salmon caught and released.

Since 2001, CAFN has imposed a fishing area closure from the Klukshu River bridge crossing upstream to the assessment site to allow for better staging opportunities for salmon in the vicinity of the Klukshu/Tatshenshini rivers confluence.

## Escapement

Alsek River drainagewide abundance programs are being investigated for Chinook and sockeye salmon stocks as part of the development of abundance-based management regimes and to accurately assess whether the current escapement goals are appropriate and if so, are being achieved. At this time, there are no programs in place to estimate the drainage-wide coho salmon escapement.

The most reliable long-term comparative escapement index for Alsek River drainage salmon stocks are the Klukshu River counts. A large and annually variable proportion of the drainagewide escapement of each species is enumerated at Klukshu River, where video enumeration systems have been implemented since 2016. Video enumeration has been implemented on Village Creek since 2014. These video enumeration projects allow salmon passage 24 hours per day and alleviate concerns over impeding and/or handling salmon during periods of low abundance. In 2018 we also implemented a trial snorkel survey on Takhanne River to enumerate Chinook salmon. This project was successful and is recommended for future inclusion in monitoring.

## Sockeye Salmon

In 2018, the Klukshu River sockeye salmon count was 7,143 fish and the escapement estimate was 7,143 fish, below the escapement goal range of 7,500 to 11,000 fish. The count of 91 early run fish (count through August 15) was below the average of 2,611 fish as was the count of 6,944 late run fish with an average of 7,976 fish. The sockeye salmon count at Village Creek was 97 fish; this was well below average.

## Chinook Salmon

In 2018, the Klukshu River Chinook salmon count was 1,087 fish and the escapement estimate was 1,087 fish. This escapement estimate is above the target midpoint of the escapement goal range of 800 to 1,200 Klukshu Chinook salmon.

## Coho Salmon

The Klukshu River coho salmon count prior to project end was 728 fish. As in past years, this does not serve as a reliable run strength indicator as the project ends during the coho salmon run to the Klukshu River. This number is below the recent average of 2,318 fish.

## ENHANCEMENT ACTIVITIES

## Egg Collection

In 2018, sockeye salmon eggs were collected at Tahltan Lake on the Stikine River for the thirtieth year, Tatsamenie Lake system on the Taku River for the twenty-nineth year of this program.

## Tahltan Lake

In 2018, Tahltan Fisheries were contracted to perform the egg take. The egg-take goal was set at 5.0 million eggs in the approved Stikine River Enhancement Plan. Canadian technical staff lowered the egg-take goal to 2.5 million eggs due to low escapement and treaty stocking guidelines not to exceed a 1:1 ratio of enhanced to wild smolt out-migrating from the lake. A total of 894 females and 938 males were spawned over the course of 7 egg-take days conducted from September $12^{\text {th }}$ to $24^{\text {th }}$. This produced a preliminary estimate of 2.5 million sockeye salmon eggs for delivery to Snettisham Hatchery in Alaska (based on an estimated fecundity of 2,800 eggs per female). No egg shipments were delayed due to weather, which is a first for the project. The egg survival at Snettisham Hatchery to 100 CTU was $92 \%$.

## Tatsamenie Lake

In 2018, Metla Environmental was contracted to collect eggs at Tatsamenie Lake. Broodstock was captured near the assessment weir at the outlet of Tatsamenie Lake and held until ripe. Escapement through the weir was below average at 4,936 sockeye salmon. The egg-take goal was set at 2.5 million eggs in the approved Taku Enhancement Production Plan. A total of 670 females were spawned over the course of 5 egg-take days conducted from September $19^{\text {th }}$ to October $8^{\text {th }} .3$ of the egg shipments were delivered the following day due to weather. An estimated 2.5 million sockeye salmon eggs were delivered to Snettisham Hatchery. Average egg survival to 100 CTU was $79 \%$.

## Little Trapper Lake

In 2018, Metla Environmental Ltd was funded through the Northern Fund to collect 500,000 sockeye salmon eggs at Little Trapper Lake for subsequent release to Trapper Lake. The resulting fry were to be used to evaluate passage of returning adults to the barrier location between Little Trapper and Trapper Lake that is to be modified as part of the development of an enhancement program. The egg take did not occur due to an unusually low escapement early in the run and an usually low proportion of females. A larger escapement eventually materialized but the female component was still unusually low, approximately $19 \%$. Egg takes completed in 2016 and 2017 are expected to result in sockeye returns for passage evaluation in 2020 through 2022.

## King Salmon Lake

Taku River Tlingit Fisheries conducted a project to test the feasibility of using King Salmon Lake to produce sockeye salmon. In 2012 and 2014, sockeye salmon eggs were collected in King Salmon Lake, sent to Snettisham Hatchery for incubation and the resulting fry were back planted into the lake. In 2018 the return of King Salmon sockeye salmon was recorded at the weir near the lake at 3,180 with more potentially held up at a barrier downstream on King Salmon Creek. A site visit by DFO and TRT on Aug 11 confirmed this to be a log jam that was first noticed as a result of radio tag surveys completed in 2018 by ADFG. Currently the 2014 brood year of enhanced fish are determined to be a substantial portion of the run at approximately $27 \%$.

Incubation, Thermal Marking, and Fry Plants
Snettisham Hatchery is operated by DIPAC, a private aquaculture organization in Juneau. A cooperative agreement between ADF\&G and DIPAC provides for Snettisham Hatchery to serve the needs of the joint TBR enhancement projects.

Egg incubation and thermal-marking at Snettisham Hatchery went smoothly in 2017/2018. In 2018, brood year 2017 fry were transported to the appropriate systems from May $29^{\text {th }}$ to June5 ${ }^{\text {th }}$. There were no IHNV losses of the 2017 brood year.

## Tahltan Lake

In 2018, a total of 2.6 million sockeye salmon fry were stocked back into Tahltan Lake. These fish were from eggs collected in Tahltan Lake in the fall of 2017. Survival from green-egg to stocking fry was $68 \%$. Fry stocking took place on May $30^{\text {th }}$ to June $5^{\text {th }}$.

## Tuya Lake

Fry planting into Tuya Lake has been discontinued since 2014 due to Canadian domestic concerns.

## Tatsamenie Lake

In 2018, a total of 1.48 million sockeye salmon fry were stocked in Tatsamenie Lake. These fish were from eggs collected at Tatsamenie Lake in the fall of 2017. Survival from greenegg to stocked fry was $75 \%$. Approximately 1.26 million sockeye salmon fry were released directly into the lake on May $29^{\text {th }}$ to May $31^{\text {st }}$. As a result of losing the onshore rearing water source in 2017 through a natural flood event of the creek the 2018 plan was to trial an in lake net pen rearing strategy from start to finish of the rearing duration. On May 29 and 30 , approximately 214,000 sockeye salmon fry were flown to the lake and placed in four net pens. On June 28, all fry were released at approximately 2.1 grams meeting the intent to rear fry to a smaller size than previously however achieving faster growth in the lake environment. This resulted in the targeted earlier release timing of fry near late June. Full evaluation of the success of extended rearing will not be available until these fish return as adults.

## Trapper Lake

In 2018, a total of 187,000 sockeye salmon fry were stocked into Trapper Lake. These fish were from eggs collected in Little Trapper Lake in the fall of 2017. Survival from greenegg to stocking fry was $67 \%$. Fry stocking took place on May $29^{\text {th }}$.

## Sockeye Supplementation Evaluation Surveys

## Acoustic, Trawl, Beach Seine and Limnological Sampling

Standard limnological surveys were conducted at Tatsamenie and Tahltan lakes. No surveys were conducted on Tuya or Trapper lakes. No hydroacoustic surveys were conducted in 2017.

## Thermal Mark Laboratories

## ADF\&G Thermal Mark Laboratory

During the 2018 season, the ADF\&G Thermal Mark Lab processed 12,217 sockeye salmon otoliths collected by ADF\&G and DFO staff as part of the U.S./Canada fry-stocking evaluation program. These collections came from commercial and test fisheries in both
U.S. and Canadian waters on the Taku and Stikine rivers over a 14 -week period. The laboratory provided estimates on hatchery contributions for 79 distinct sample collections. Estimates of the percentage of hatchery fish contributed to commercial fishery catches were provided to ADF\&G and DFO fishery managers 24 to 48 hours after samples arrived at the lab.

Postseason estimates of stocked fish to Alaskan harvests were 2,600 Stikine River fish to District 106 and 108, and 1,500 Taku River fish to District 111. Postseason estimates of stocked fish to Canadian fisheries included 9,300 fish to Stikine River fisheries and 900 fish to the Taku River fisheries.

## Canadian Thermal Mark Laboratory

Subsamples of juvenile and adult otolith samples collected at the study lakes during the 2018 season are being analyzed at the DFO thermal mark lab in Whitehorse.

## APPENDICES

## Standards

All 2018 are considered final
Large Chinook salmon are MEF length $\geq 660 \mathrm{~mm}$
Unless otherwise stated Chinook salmon are large
Test fisheries for Chinook salmon became commercial assessment/test fisheries starting in 2004
Data not available to estimate harvests of Alaska Hatchery pink and chum salmon
All harvest of Tahltan and Tatsamenie lake sockeye salmon, unless otherwise noted, include both wild and hatchery fish.

## Bold numbers are incomplete or interpolated numbers

Italicized numbers are used when the GSI estimates do not meet acceptable levels of precision and accuracy agreed upon by the TTC (April 2013): to estimate the proportion of mixtures within $10 \%$ of the true mixture $90 \%$ of the time.

Appendix A. 1. Weekly harvest estimates of Chinook salmon in the US gillnet, troll, recreational, and subsistence fisheries in District 108, 2018.


Appendix A. 2. Weekly catch and harvest of Chinook salmon in the Canadian commercial, Telegraph Aboriginal, and recreational fishery in the Stikine River, 2018.

| SW | LRCF |  |  |  |  |  | URCF |  | Aboriginal Telegraph |  | Tahltan sport fishery |  |  | Canada total large Stikine harvest | large released mortality |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Kept |  | Released |  | Estimatedmortality (50\%) |  |  |  |  |  |  |  |  |  |  |
|  | Large | Nonlarge | Large | Nonlarge | Large | Nonlarge | Large | Nonlarge | Large | Nonlarge | Retained | Released | Total |  |  |
| 19 |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 | 0 |
| 20 |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 | 0 |
| 21 |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 | 0 |
| 22 |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 | 0 |
| 23 |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 | 0 |
| 24 |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 | 0 |
| 25 |  |  |  |  | 0 | 0 |  |  | 3 | 13 |  |  |  | 3 | 0 |
| 26 |  |  | 186 | 240 | 93 | 120 |  |  | 34 | 119 |  |  |  | 127 | 93 |
| 27 |  |  | 153 | 228 | 77 | 114 |  |  | 32 | 92 |  |  |  | 109 | 77 |
| 28 |  |  | 62 | 91 | 31 | 46 |  |  | 35 | 90 |  |  |  | 66 | 31 |
| 29 |  |  | 52 | 54 | 26 | 27 |  |  | 28 | 98 |  |  |  | 54 | 26 |
| 30 |  |  | 18 | 14 | 9 | 7 |  |  | 30 | 43 |  |  |  | 39 | 9 |
| 31 |  |  | 3 | 6 | 2 | 3 |  |  | 3 | 1 |  |  |  | 5 | 2 |
| 32 |  |  | 1 | 2 | 1 | 1 |  |  |  |  |  |  |  | 1 | 1 |
| 33 |  |  | 1 | 1 | 1 | 1 |  |  |  |  |  |  |  | 1 | 1 |
| 34 |  |  |  |  | 0 | 0 |  |  |  |  |  |  |  | 0 | 0 |
| 35 |  |  |  |  | 0 | 0 |  |  |  |  |  |  |  | 0 | 0 |
| 36 |  |  |  |  | 0 | 0 |  |  |  |  |  |  |  | 0 | 0 |
| 37 |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 | 0 |
| Total ke] | 0 | 0 | 476 | 636 | 238 | 318 | 0 | 0 | 165 | 456 | 0 | 0 | 0 | 403 | 238 |

Appendix A. 3. Weekly catch and harvest of Chinook salmon in the Canadian test fisheries in the Stikine River, 2018.

| SW | Test Fishery |  |  |  |  |  |  |  | Commercial license |  | Total Release |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Drift |  | Set |  | Test Released |  | Test Estimated mortality (50\%) |  |  |  | Large Fish |  | Nonlarge Fish |  |
|  | Large | Nonlarge | Large | Nonlarge | Large | Nonlarge | Large | Nonlarge | Large | Nonlarge | Catch | Mortality | Catch | Mortality |
| 19 |  |  |  |  |  |  |  |  |  |  | 0 | 0 | 0 | 0 |
| 20 |  |  |  |  |  |  |  |  |  |  | 0 | 0 | 0 | 0 |
| 21 |  |  |  |  |  |  |  |  |  |  | 0 | 0 | 0 | 0 |
| 22 |  |  |  |  |  |  |  |  |  |  | 0 | 0 | 0 | 0 |
| 23 |  |  |  |  |  |  |  |  |  |  | 0 | 0 | 0 | 0 |
| 24 |  |  |  |  |  |  |  |  |  |  | 0 | 0 | 0 | 0 |
| 25 |  |  |  |  | 6 | 12 | 3 | 6 |  |  | 6 | 3 | 12 | 6 |
| 26 |  |  |  |  | 10.00 | 13.0 | 5 | 7 |  |  | 10 | 5 | 13 | 7 |
| 27 |  |  |  |  | 1.00 | 6.0 | 1 | 3 |  |  | 1 | 1 | 6 | 3 |
| 28 |  |  |  |  | 3.00 | 5.0 | 2 | 3 |  |  | 3 | 2 | 5 | 3 |
| 29 |  |  |  |  |  | 1.0 | 0 | 1 |  |  | 0 | 0 | 1 | 1 |
| 30 |  |  |  |  |  |  | 0 | 0 |  |  | 0 | 0 | 0 | 0 |
| 31 |  |  |  |  | 1.00 |  | 1 | 0 |  |  | 1 | 1 | 0 | 0 |
| 32 |  |  |  |  |  |  |  |  |  |  | 0 | 0 | 0 | 0 |
| 33 |  |  |  |  |  |  |  |  |  |  | 0 | 0 | 0 | 0 |
| 34 |  |  |  |  |  |  |  |  |  |  | 0 | 0 | 0 | 0 |
| 35 |  |  |  |  |  |  |  |  |  |  | 0 | 0 | 0 | 0 |
| 36 |  |  |  |  |  |  |  |  |  |  | 0 | 0 | 0 | 0 |
| 37 |  |  |  |  |  |  |  |  |  |  | 0 | 0 | 0 | 0 |
| 38 |  |  |  |  |  |  |  |  |  |  | 0 | 0 | 0 | 0 |
| 39 |  |  |  |  |  |  |  |  |  |  | 0 | 0 | 0 | 0 |
| 40 |  |  |  |  |  |  |  |  |  |  | 0 | 0 | 0 | 0 |
| 41 |  |  |  |  |  |  |  |  |  |  | 0 | 0 | 0 | 0 |
| 42 |  |  |  |  |  |  |  |  |  |  | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 21 | 37 | 11 | 19 | 0 | 0 | 21 | 11 | 37 | 19 |

Appendix A. 4. Weekly harvest of sockeye salmon in the Alaskan District 106 and 108 fisheries, 2018.

| SW | Subsistence | D106 Total | D106-30 | D106-41/42 | D108 |  |
| :--- | :---: | :---: | :---: | :---: | :---: | ---: |
| $22-24$ |  |  |  |  |  |  |
| 25 | 48 | 447 | 50 | 397 |  |  |
| 26 | 178 | 1,946 | 613 | 1,333 |  | 1,276 |
| 27 | 531 | 2,097 | 860 | 1,237 | 1,404 |  |
| 28 | 413 | 2,937 | 750 | 2,187 | 1,184 |  |
| 29 | 375 | 2,647 | 926 | 1,721 | 1,125 |  |
| 30 | 137 | 3,817 | 1,954 | 1,863 | 404 |  |
| 31 | 31 | 3,569 | 1,668 | 1,901 | 212 |  |
| 32 | 9 | 3,002 | 1,544 | 1,458 | 63 |  |
| 33 | 0 | 2,367 | 847 | 1,520 | 17 |  |
| 34 | 10 | 1,423 | 706 | 717 |  | 17 |
| 35 | 0 | 733 | 471 | 262 |  | 30 |
| 36 | 0 | 152 | 102 | 50 |  | 9 |
| 37 | 0 | 56 | 31 | 25 | 6 |  |
| 38 | 0 | 5 | 2 | 3 | 1 |  |
| 39 | 0 | 5 | 4 | 1 |  | 0 |
| 40 | 0 | 0 |  |  |  |  |
| 41 | 0 | 0 |  |  | 5,731 |  |
| Total | 1,732 | 25,203 | 10,528 | 14,675 |  |  |

Appendix A. 5. Weekly stock proportions of sockeye salmon harvested in the Alaskan D106 commercial drift gillnet fishery, 2018.
Estimates derived from GSI estimates for subdistricts $10641 / 42$ and 106-30; see Appendices G. 1 and G. 2. for GSI details.

|  |  | Stikine |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| SW | Other | All Tahltan | Tuya | Mainstem | Total | Tahltan Enhance | WildTahltan |
| 25 | 0.506 | 0.257 | 0.027 | 0.210 | 0.494 | 0.152 | 0.105 |
| 26 | 0.645 | 0.264 | 0.026 | 0.064 | 0.355 | 0.163 | 0.101 |
| 27 | 0.758 | 0.146 | 0.015 | 0.081 | 0.242 | 0.082 | 0.063 |
| 28 | 0.823 | 0.088 | 0.011 | 0.078 | 0.177 | 0.031 | 0.057 |
| 29 | 0.866 | 0.033 | 0.001 | 0.100 | 0.134 | 0.005 | 0.028 |
| 30 | 0.918 | 0.010 | 0.002 | 0.070 | 0.082 | 0.009 | 0.001 |
| 31 | 0.963 | 0.007 | 0.001 | 0.029 | 0.037 | 0.001 | 0.007 |
| 32 | 0.967 | 0.008 | 0.001 | 0.025 | 0.033 | 0.004 | 0.004 |
| 33 | 0.991 | 0.002 | 0.001 | 0.006 | 0.009 | 0.001 | 0.001 |
| 34 | 0.934 | 0.003 | 0.001 | 0.063 | 0.066 | 0.001 | 0.002 |
| 35 | 0.952 | 0.004 | 0.002 | 0.042 | 0.048 | 0.002 | 0.002 |
| 36 | 0.950 | 0.004 | 0.002 | 0.043 | 0.050 | 0.002 | 0.002 |
| 37 | 0.957 | 0.004 | 0.002 | 0.037 | 0.043 | 0.002 | 0.002 |
| 38 | 0.967 | 0.004 | 0.001 | 0.028 | 0.033 | 0.001 | 0.002 |
| 39 | 0.943 | 0.004 | 0.002 | 0.051 | 0.057 | 0.002 | 0.002 |
| Total | 0.881 | 0.055 | 0.006 | 0.058 | 0.119 |  |  |
| 25 | 226 | 115 | 12 | 94 | 221 | 68 | 47 |
| 26 | 1,256 | 514 | 51 | 125 | 690 | 317 | 197 |
| 27 | 1,589 | 306 | 32 | 170 | 508 | 173 | 133 |
| 28 | 2,416 | 258 | 33 | 230 | 521 | 91 | 167 |
| 29 | 2,291 | 88 | 2 | 266 | 356 | 14 | 74 |
| 30 | 3,504 | 38 | 9 | 266 | 313 | 33 | 5 |
| 31 | 3,436 | 27 | 2 | 104 | 133 | 2 | 24 |
| 32 | 2,903 | 23 | 2 | 74 | 99 | 12 | 24 |
| 33 | 2,347 | 4 | 2 | 14 | 20 | 2 | 11 |
| 34 | 1,328 | 4 | 2 | 89 | 95 | 2 | 2 |
| 35 | 698 | 3 | 1 | 31 | 35 | 1 | 2 |
| 36 | 144 | 1 | 0 | 7 | 8 | 0 | 2 |
| 37 | 54 | 0 | 0 | 2 | 2 | 0 | 0 |
| 38 | 5 | 0 | 0 | 0 | 0 | 0 | 0 |
| 39 | 5 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 22,203 | 1,380 | 148 | 1,473 | 3,000 | 716 | 664 |
|  |  |  |  |  |  | 0 | 0 |

Appendix A. 6. Weekly stock proportions of sockeye salmon harvested in the Alaskan Subdistrict 106-41/42 (Sumner Strait) commercial drift gillnet fishery, 2018.

| Estimates based on mean GSI; see Appendix G. 1 for GSI details. |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Stikine |  |  |  |  |  |
| SW | Other | All Tahltan | Tuya | Mainstem | Total | Tahltan Enhance | WildTahltan |
| 25 | 0.454 | 0.286 | 0.030 | 0.230 | 0.546 | 0.171 | 0.115 |
| 26 | 0.521 | 0.372 | 0.037 | 0.071 | 0.479 | 0.237 | 0.135 |
| 27 | 0.659 | 0.242 | 0.025 | 0.074 | 0.341 | 0.139 | 0.103 |
| 28 | 0.797 | 0.112 | 0.014 | 0.077 | 0.203 | 0.041 | 0.071 |
| 29 | 0.833 | 0.044 | 0.001 | 0.123 | 0.167 | 0.008 | 0.036 |
| 30 | 0.897 | 0.018 | 0.004 | 0.081 | 0.103 | 0.017 | 0.001 |
| 31 | 0.953 | 0.007 | 0.001 | 0.039 | 0.047 | 0.001 | 0.007 |
| 32 | 0.963 | 0.014 | 0.001 | 0.023 | 0.037 | 0.007 | 0.006 |
| 33 | 0.989 | 0.002 | 0.001 | 0.008 | 0.011 | 0.001 | 0.001 |
| 34 | 0.906 | 0.003 | 0.001 | 0.090 | 0.094 | 0.001 | 0.002 |
| 35 | 0.990 | 0.003 | 0.001 | 0.006 | 0.010 | 0.001 | 0.002 |
| 36 | 0.990 | 0.003 | 0.001 | 0.006 | 0.010 | 0.001 | 0.002 |
| 37 | 0.990 | 0.003 | 0.001 | 0.006 | 0.010 | 0.001 | 0.002 |
| 38 | 0.990 | 0.003 | 0.001 | 0.006 | 0.010 | 0.001 | 0.002 |
| 39 | 0.990 | 0.003 | 0.001 | 0.006 | 0.010 | 0.001 | 0.002 |
| Total | 0.834 | 0.089 | 0.009 | 0.068 | 0.166 | 0.048 | 0.041 |
| 25 | 180 | 113 | 12 | 91 | 217 | 68 | 46 |
| 26 | 694 | 496 | 49 | 94 | 639 | 316 | 180 |
| 27 | 815 | 299 | 31 | 91 | 422 | 172 | 127 |
| 28 | 1,743 | 244 | 31 | 169 | 444 | 89 | 155 |
| 29 | 1,434 | 75 | 1 | 211 | 287 | 13 | 62 |
| 30 | 1,671 | 34 | 8 | 150 | 192 | 32 | 2 |
| 31 | 1,812 | 14 | 1 | 74 | 89 | 1 | 13 |
| 32 | 1,403 | 20 | 1 | 34 | 55 | 11 | 9 |
| 33 | 1,504 | 3 | 1 | 13 | 16 | 1 | 2 |
| 34 | 650 | 2 | 1 | 65 | 67 | 1 | 1 |
| 35 | 259 | 1 | 0 | 2 | 3 | 0 | 1 |
| 36 | 50 | 0 | 0 | 0 | 0 | 0 | 0 |
| 37 | 25 | 0 | 0 | 0 | 0 | 0 | 0 |
| 38 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 39 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 12,244 | 1,301 | 136 | 994 | 2,431 | 704 | 598 |

Appendix A. 7. Weekly stock proportions of sockeye salmon harvested in the Alaskan Subdistrict 106-30 (Clarence Strait) commercial drift gillnet fishery, 2018.

| Estimates based on mean GSI; see Appendix G. 2 for GSI details. |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Stikine |  |  |  |  |  |
| SW | Other | All Tahltan | Tuya | Mainstem | Total | Tahltan Enhance | WildTahltan |
| 25 | 0.916 | 0.030 | 0.002 | 0.051 | 0.084 | 0.002 | 0.027 |
| 26 | 0.916 | 0.030 | 0.002 | 0.051 | 0.084 | 0.002 | 0.027 |
| 27 | 0.900 | 0.008 | 0.001 | 0.091 | 0.100 | 0.001 | 0.007 |
| 28 | 0.897 | 0.018 | 0.002 | 0.082 | 0.103 | 0.002 | 0.016 |
| 29 | 0.926 | 0.014 | 0.001 | 0.059 | 0.074 | 0.001 | 0.013 |
| 30 | 0.938 | 0.002 | 0.001 | 0.060 | 0.062 | 0.001 | 0.001 |
| 31 | 0.974 | 0.007 | 0.001 | 0.018 | 0.026 | 0.001 | 0.007 |
| 32 | 0.971 | 0.002 | 0.001 | 0.026 | 0.029 | 0.001 | 0.001 |
| 33 | 0.995 | 0.002 | 0.001 | 0.002 | 0.005 | 0.001 | 0.001 |
| 34 | 0.962 | 0.003 | 0.001 | 0.035 | 0.038 | 0.001 | 0.001 |
| 35 | 0.931 | 0.005 | 0.002 | 0.062 | 0.069 | 0.002 | 0.002 |
| 36 | 0.931 | 0.005 | 0.002 | 0.062 | 0.069 | 0.002 | 0.002 |
| 37 | 0.931 | 0.005 | 0.002 | 0.062 | 0.069 | 0.002 | 0.002 |
| 38 | 0.931 | 0.005 | 0.002 | 0.062 | 0.069 | 0.002 | 0.002 |
| 39 | 0.931 | 0.005 | 0.002 | 0.062 | 0.069 | 0.002 | 0.002 |
| Total | 0.946 | 0.007 | 0.001 | 0.045 | 0.054 | 0.001 | 0.006 |
| 25 | 46 | 1 | 0 | 3 | 4 | 0 | 1 |
| 26 | 562 | 18 | 2 | 31 | 51 | 2 | 17 |
| 27 | 774 | 7 | 1 | 78 | 86 | 1 | 6 |
| 28 | 673 | 14 | 2 | 61 | 77 | 2 | 12 |
| 29 | 858 | 13 | 1 | 54 | 68 | 1 | 12 |
| 30 | 1,833 | 3 | 1 | 116 | 121 | 1 | 2 |
| 31 | 1,625 | 12 | 1 | 30 | 43 | 1 | 11 |
| 32 | 1,499 | 3 | 1 | 41 | 45 | 1 | 2 |
| 33 | 843 | 2 | 1 | 2 | 4 | 1 | 1 |
| 34 | 679 | 2 | 1 | 24 | 27 | 1 | 1 |
| 35 | 438 | 2 | 1 | 29 | 33 | 1 | 1 |
| 36 | 95 | 0 | 0 | 6 | 7 | 0 | 0 |
| 37 | 29 | 0 | 0 | 2 | 2 | 0 | 0 |
| 38 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 39 | 4 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 9,959 | 78 | 12 | 479 | 569 | 12 | 66 |

Appendix A. 8. Weekly stock proportions sockeye salmon harvested in the Alaskan District 108 commercial drift gillnet fishery, 2018.
Estimates based on mean GSI; see Appendix G. 3 for GSI details.

|  |  | Stikine |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| SW | Other | All Tahltan | Tuya | Mainstem | Total | Tahltan Enhance | WildTahltan |
| 25 |  |  |  |  |  |  |  |
| 26 |  |  |  |  |  |  |  |
| 27 | 0.069 | 0.689 | 0.019 | 0.223 | 0.931 | 0.299 | 0.390 |
| 28 | 0.366 | 0.301 | 0.025 | 0.308 | 0.634 | 0.150 | 0.150 |
| 29 | 0.291 | 0.271 | 0.015 | 0.422 | 0.709 | 0.149 | 0.122 |
| 30 | 0.159 | 0.145 | 0.015 | 0.681 | 0.841 | 0.074 | 0.071 |
| 31 | 0.361 | 0.088 | 0.004 | 0.546 | 0.639 | 0.057 | 0.031 |
| 32 | 0.718 | 0.061 | 0.019 | 0.202 | 0.282 | 0.026 | 0.036 |
| 33 | 0.718 | 0.061 | $\mathbf{0 . 0 1 9}$ | $\mathbf{0 . 2 0 2}$ | 0.282 | 0.026 | 0.036 |
| 34 | 0.718 | 0.061 | $\mathbf{0 . 0 1 9}$ | $\mathbf{0 . 2 0 2}$ | 0.282 | 0.026 | 0.036 |
| 35 | 0.718 | 0.061 | $\mathbf{0 . 0 1 9}$ | $\mathbf{0 . 2 0 2}$ | 0.282 | 0.026 | 0.036 |
| 36 | 0.718 | 0.061 | $\mathbf{0 . 0 1 9}$ | $\mathbf{0 . 2 0 2}$ | 0.282 | $\mathbf{0 . 0 2 6}$ | $\mathbf{0 . 0 3 6}$ |
| 37 | 0.718 | 0.061 | $\mathbf{0 . 0 1 9}$ | $\mathbf{0 . 2 0 2}$ | 0.282 | $\mathbf{0 . 0 2 6}$ | $\mathbf{0 . 0 3 6}$ |
| 38 | 0.718 | 0.061 | $\mathbf{0 . 0 1 9}$ | $\mathbf{0 . 2 0 2}$ | 0.282 | $\mathbf{0 . 0 2 6}$ | $\mathbf{0 . 0 3 6}$ |
| 39 | 0.718 | 0.061 | $\mathbf{0 . 0 1 9}$ | $\mathbf{0 . 2 0 2}$ | 0.282 | $\mathbf{0 . 0 2 6}$ | $\mathbf{0 . 0 3 6}$ |
| Total | 0.264 | 0.322 | 0.018 | 0.397 | 0.736 | 0.154 | 0.167 |
| 25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 26 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 27 | 88 | 879 | 25 | 285 | 1,188 | 382 | 498 |
| 28 | 514 | 422 | 35 | 433 | 890 | 211 | 211 |
| 29 | 345 | 321 | 18 | 500 | 839 | 177 | 144 |
| 30 | 179 | 163 | 17 | 766 | 946 | 84 | 80 |
| 31 | 146 | 36 | 2 | 221 | 258 | 23 | 13 |
| 32 | 152 | 13 | 4 | 43 | 60 | 5 | 13 |
| 33 | 45 | 4 | 1 | 13 | 18 | 2 | 8 |
| 34 | 12 | 1 | 0 | 3 | 5 | 0 | 0 |
| 35 | 22 | 2 | 1 | 6 | 8 | 1 | 0 |
| 36 | 6 | 1 | 0 | 2 | 3 | 0 | 0 |
| 37 | 4 | 0 | 0 | 1 | 2 | 0 | 0 |
| 38 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 39 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 1,514 | 1,843 | 102 | 2,272 | 4,217 | 885 | 958 |
|  |  |  |  |  |  | 0 | 0 |

Appendix A. 9. Weekly sockeye salmon harvest and effort in the Canadian commercial and assessment fisheries in the lower Stikine River, 2018.

| SW | LRCF |  |  |  | URCF | Telegraph Aboriginal | Drift Net Test |  | Set Net Test |  | Commercial <br> License/assessment | $\begin{gathered} \hline \text { Test } \\ \text { Total } \\ \hline \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Harvest | Permits | Days | Permit days |  |  | harvest | \# drifts | harvest | hours |  |  |
| 19 |  |  |  | 0.0 |  |  |  |  |  |  |  | 0 |
| 20 |  |  |  | 0.0 |  |  |  |  |  |  |  | 0 |
| 21 |  |  |  | 0.0 |  |  |  |  |  |  |  | 0 |
| 22 |  |  |  | 0.0 |  |  |  |  |  |  |  | 0 |
| 23 |  |  |  | 0.0 |  |  |  |  |  |  |  | 0 |
| 24 |  |  |  | 0.0 |  |  |  |  |  |  |  | 0 |
| 25 |  |  |  | 0.0 |  | 1 | 2 | 28 | 8 | 24 |  | 10 |
| 26 | 1,782 | 9.7 | 1.8 | 17.5 |  | 18 | 43 | 28 | 164 | 48 |  | 207 |
| 27 | 5,160 | 11.0 | 3.0 | 33.0 |  | 1,096 | 28 | 28 | 144 | 48 |  | 172 |
| 28 | 3,905 | 11.0 | 2.0 | 22.0 | 206 | 1,571 | 32 | 28 | 237 | 72 |  | 269 |
| 29 | 2,213 | 11.0 | 2.0 | 22.0 | 32 | 1,680 | 33 | 28 | 209 | 64 |  | 242 |
| 30 | 2,030 | 8.7 | 3.0 | 26.1 | 169 | 986 | 20 | 28 | 178 | 72 |  | 198 |
| 31 | 496 | 8.0 | 2.0 | 16.0 |  | 63 | 22 | 28 | 79 | 48 |  | 101 |
| 32 | 600 | 5.0 | 2.0 | 10.0 |  |  | 10 | 28 | 29 | 48 |  | 39 |
| 33 | 220 | 6.0 | 1.0 | 6.0 |  |  | 10 | 28 | 30 | 48 |  | 40 |
| 34 | 101 | 7.0 | 1.0 | 7.0 |  |  | 5 | 28 | 29 | 48 |  | 34 |
| 35 | 202 | 7.4 | 7.0 | 51.8 |  |  |  |  |  |  |  | 0 |
| 36 | 177 | 8.5 | 6.0 | 51.0 |  |  |  |  |  |  |  | 0 |
| 37 | 29 | 7 | 4 | 28.0 |  |  |  |  |  |  |  | 0 |
| 38 |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 39 |  |  |  |  |  |  |  |  |  |  |  | 0 |
| Total | 16,915 |  | 34.8 | 290.4 | 407 | 5,415 | 205 | 280 | 1,107 | 520 | 0 | 1,312 |

Appendix A. 10. Weekly sockeye salmon stock proportions and harvest by stock in the Canadian commercial fishery in the lower Stikine River, 2018.


Appendix A. 11. Harvest by stock and week for sockeye salmon in the Canadian upper river commercial and Aboriginal fisheries in the Stikine River, 2018.

| Stock |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| SW | All Tahltan | Tuya | Mainstem | WildTahltan | TahltanEnhance |
| Proportion by stock for upper river fisheries |  |  |  |  |  |
| 24 |  |  |  | 0.000 |  |
| 25 | 0.963 | 0.017 | 0.020 | 0.378 | 0.585 |
| 26 | 0.963 | 0.017 | 0.020 | 0.378 | 0.585 |
| 27 | 0.963 | 0.017 | 0.020 | 0.378 | 0.585 |
| 28 | 0.955 | 0.025 | 0.020 | 0.629 | 0.326 |
| 29 | 0.972 | 0.008 | 0.020 | 0.813 | 0.159 |
| 30 | 0.972 | 0.008 | 0.020 | 0.905 | 0.067 |
| 31 | 0.972 | 0.008 | 0.020 | 0.905 | 0.067 |
| 32 | 1.000 |  |  | 1.000 |  |
| 33 | 1.000 |  |  | 1.000 |  |
| 34 | 1.000 |  |  | 1.000 |  |
| Total |  |  |  |  |  |
| Harvest by stock for upper river commercial fishery |  |  |  |  |  |
| 27 | 0 | 0 | 0 | 0 | 0 |
| 28 | 197 | 5 | 4 | 130 | 67 |
| 29 | 31 | 0 | 1 | 26 | 5 |
| 30 | 164 | 1 | 3 | 153 | 11 |
| 31 | 0 | 0 | 0 | 0 | 0 |
| 32 | 0 | 0 | 0 | 0 | 0 |
| Total | 392 | 7 | 8 | 309 | 84 |
| Harvest by stock for Telegraph Aboriginal fishery |  |  |  |  |  |
| 24 | 0 | 0 | 0 | 0 | 0 |
| 25 | 1 | 0 | 0 | 0 | 1 |
| 26 | 17 | 0 | 0 | 7 | 11 |
| 27 | 1,055 | 19 | 22 | 414 | 641 |
| 28 | 1,500 | 39 | 31 | 988 | 512 |
| 29 | 1,633 | 13 | 34 | 1,366 | 267 |
| 30 | 958 | 8 | 20 | 892 | 66 |
| 31 | 61 | 1 | 1 | 57 | 4 |
| 32 | 0 | 0 | 0 | 0 | 0 |
| 33 | 0 | 0 | 0 | 0 | 0 |
| 34 | 0 | 0 | 0 | 0 | 0 |
| 35 | 0 | 0 | 0 | 0 | 0 |
| Total | 5,227 | 80 | 108 | 3,725 | 1,502 |

Appendix A. 12. Weekly harvest, CPUE, and migratory timing of Tahltan, Tuya, and mainstem sockeye salmon stocks in the Stikine River test fishery, 2018.

| Sex specific age compositions were and the stock composition of the females sampled for egg diameters was expanded to the harvest by age. If no fishery, a proxy in SW 25-27 was based on the rate of change from the LRCC. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Proportions |  |  |  | Harvest |  |  |  | CPUE |  |  |  | Migratory Timing |  |  |
| SW | small egg | AllTahltan | Tuya | Mainstem | TahltanEnhance | AllTahltan | Tuya | Mainstem | TahltanEnhance | AllTahltan | Tuya | Mainstem | Total | AllTahltan | Tuya | Mainstem |
| Drift gillnet |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 25 | 0.857 | 1.000 | 0.000 | 0.000 | 0.300 | 2 | 0 | 0 | 1 | 0.071 | 0.000 | 0.000 | 0.071 | 0.010 | 0.000 | 0.000 |
| 26 | 0.955 | 0.716 | 0.019 | 0.265 | 0.524 | 31 | 1 | 11 | 23 | 1.100 | 0.028 | 0.408 | 1.536 | 0.150 | 0.004 | 0.056 |
| 27 | 0.940 | 0.676 | 0.010 | 0.314 | 0.468 | 19 | 0 | 9 | 13 | 0.676 | 0.010 | 0.314 | 1.000 | 0.092 | 0.001 | 0.043 |
| 28 | 0.814 | 0.586 | 0.007 | 0.407 | 0.478 | 19 | 0 | 13 | 15 | 0.670 | 0.009 | 0.465 | 1.143 | 0.091 | 0.001 | 0.063 |
| 29 | 0.673 | 0.549 | 0.012 | 0.439 | 0.354 | 18 | 0 | 14 | 12 | 0.647 | 0.014 | 0.517 | 1.179 | 0.088 | 0.002 | 0.071 |
| 30 | 0.447 | 0.405 | 0.010 | 0.585 | 0.261 | 8 | 0 | 12 | 5 | 0.289 | 0.007 | 0.418 | 0.714 | 0.040 | 0.001 | 0.057 |
| 31 | 0.326 | 0.243 | 0.010 | 0.748 | 0.140 | 5 | 0 | 16 | 3 | 0.191 | 0.008 | 0.587 | 0.786 | 0.026 | 0.001 | 0.080 |
| 32 | 0.259 | 0.098 | 0.000 | 0.902 | 0.081 | 1 | 0 | 9 | 1 | 0.035 | 0.000 | 0.322 | 0.357 | 0.005 | 0.000 | 0.044 |
| 33 | 0.048 | 0.079 | 0.000 | 0.921 | 0.026 | 1 | 0 | 9 | 0 | 0.028 | 0.000 | 0.329 | 0.357 | 0.004 | 0.000 | 0.045 |
| 34 | 0.154 | 0.029 | 0.000 | 0.971 | 0.000 | 0 | 0 | 5 | 0 | 0.005 | 0.000 | 0.173 | 0.179 | 0.001 | 0.000 | 0.024 |
| 35 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Tota |  |  |  |  |  | 104 | 2 | 99 | 73 | 3.712 | 0.076 | 3.533 | 7.321 |  |  |  |
| Prop | rtion |  |  |  |  | 0.507 | 0.010 | 0.483 |  |  |  |  |  | 0.507 | 0.010 | 0.483 |
| Set gillnet |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 25 |  | 1.000 | 0.000 | 0.000 | 0.300 | 8 | 0 | 0 | 2 | 0.333 | 0.000 | 0.000 | 0.333 | 0.017 | 0.000 | 0.000 |
| 26 |  | 0.716 | 0.019 | 0.265 | 0.524 | 117 | 3 | 44 | 86 | 2.447 | 0.063 | 0.907 | 3.417 | 0.127 | 0.003 | 0.047 |
| 27 |  | 0.676 | 0.010 | 0.314 | 0.468 | 97 | 1 | 45 | 67 | 2.029 | 0.029 | 0.943 | 3.000 | 0.105 | 0.001 | 0.049 |
| 28 |  | 0.586 | 0.007 | 0.407 | 0.478 | 139 | 2 | 96 | 113 | 1.928 | 0.025 | 1.339 | 3.292 | 0.100 | 0.001 | 0.070 |
| 29 |  | 0.549 | 0.012 | 0.439 | 0.354 | 115 | 3 | 92 | 74 | 1.793 | 0.040 | 1.432 | 3.266 | 0.093 | 0.002 | 0.074 |
| 30 |  | 0.405 | 0.010 | 0.585 | 0.261 | 72 | 2 | 104 | 47 | 1.002 | 0.025 | 1.445 | 2.472 | 0.052 | 0.001 | 0.075 |
| 31 |  | 0.243 | 0.010 | 0.748 | 0.140 | 19 | 1 | 59 | 11 | 0.399 | 0.016 | 1.230 | 1.646 | 0.021 | 0.001 | 0.064 |
| 32 |  | 0.098 | 0.000 | 0.902 | 0.081 | 3 | 0 | 26 | 2 | 0.059 | 0.000 | 0.545 | 0.604 | 0.003 | 0.000 | 0.028 |
| 33 |  | 0.079 | 0.000 | 0.921 | 0.026 | 2 | 0 | 28 | 1 | 0.049 | 0.000 | 0.576 | 0.625 | 0.003 | 0.000 | 0.030 |
| 34 |  | 0.029 | 0.000 | 0.971 | 0.000 | 1 | 0 | 28 | 0 | 0.017 | 0.000 | 0.587 | 0.604 | 0.001 | 0.000 | 0.030 |
| 35 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Tota |  |  |  |  |  | 574 | 11 | 522 | 404 | 10.06 | 0.20 | 9.00 | 19.26 |  |  |  |
| Proportion |  |  |  |  |  | 0.518 | 0.010 | 0.471 |  |  |  |  |  | 0.522 | 0.010 | 0.468 |
| Total Test Fishery Harvest |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 25 |  | 1.000 | 0.000 | 0.000 | 0.300 | 10 | 0 | 0 | 3 |  |  |  |  |  |  |  |
| 26 |  | 0.716 | 0.019 | 0.265 | 0.524 | 148 | 4 | 55 | 109 |  |  |  |  |  |  |  |
| 27 |  | 0.676 | 0.010 | 0.314 | 0.468 | 116 | 2 | 54 | 81 |  |  |  |  |  |  |  |
| 28 |  | 0.586 | 0.007 | 0.407 | 0.478 | 158 | 2 | 109 | 128 |  |  |  |  |  |  |  |
| 29 |  | 0.549 | 0.012 | 0.439 | 0.354 | 133 | 3 | 106 | 86 |  |  |  |  |  |  |  |
| 30 |  | 0.405 | 0.010 | 0.585 | 0.261 | 80 | 2 | 116 | 52 |  |  |  |  |  |  |  |
| 31 |  | 0.243 | 0.010 | 0.748 | 0.140 | 25 | 1 | 76 | 14 |  |  |  |  |  |  |  |
| 32 |  | 0.098 | 0.000 | 0.902 | 0.081 | 4 | 0 | 35 | 3 |  |  |  |  |  |  |  |
| 33 |  | 0.079 | 0.000 | 0.921 | 0.026 | 3 | 0 | 37 | 1 |  |  |  |  |  |  |  |
| 34 |  | 0.029 | 0.000 | 0.971 | 0.000 | 1 | 0 | 33 | 0 |  |  |  |  |  |  |  |
| 35 |  | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0 | 0 | 0 |  |  |  |  |  |  |  |
| Tota |  |  |  |  |  | 678 | 13 | 621 | 476 |  |  |  |  |  |  |  |
| Prop | rtion |  |  |  |  | 0.517 | 0.010 | 0.473 | 0.363 |  |  |  |  |  |  |  |
| AllTahltan harves |  |  |  | TahltanEnhanı | WildTahltn |  |  |  |  |  |  |  |  |  |  |  |
| 25 |  | 1.000 |  | 0.300 | 0.700 |  |  |  |  |  |  |  |  |  |  |  |
| 26 |  | 0.716 |  | 0.524 | 0.192 |  |  |  |  |  |  |  |  |  |  |  |
| 27 |  | 0.676 |  | 0.468 | 0.208 |  |  |  |  |  |  |  |  |  |  |  |
| 28 |  | 0.586 |  | 0.478 | 0.108 |  |  |  |  |  |  |  |  |  |  |  |
| 29 |  | 0.549 |  | 0.354 | 0.195 |  |  |  |  |  |  |  |  |  |  |  |
| 30 |  | 0.405 |  | 0.261 | 0.144 |  |  |  |  |  |  |  |  |  |  |  |
| 31 |  | 0.243 |  | 0.140 | 0.103 |  |  |  |  |  |  |  |  |  |  |  |
| 32 |  | 0.098 |  | 0.081 | 0.016 |  |  |  |  |  |  |  |  |  |  |  |
| 33 |  | 0.079 |  | 0.026 | 0.053 |  |  |  |  |  |  |  |  |  |  |  |
| 34 |  | 0.000 |  | 0.000 | 0.000 |  |  |  |  |  |  |  |  |  |  |  |
| 35 |  | 0.000 |  | 0.000 | 0.000 |  |  |  |  |  |  |  |  |  |  |  |

Appendix A. 14. Weekly coho salmon harvest in the Alaskan District 106 and 108 fisheries, 2018.

| SW | D106 |  |  |  |  | D108 |  |  | Subsistence harvest |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Hatchery | Wild | Total | 106-41/42 | 106-30 | Hatchery | Wild | Total |  |
| 25 | 79 | 201 | 280 | 221 | 59 |  |  | 0 | 0 |
| 26 | 396 | 1,511 | 1,907 | 828 | 1,079 |  |  | 0 | 0 |
| 27 | 680 | 1,702 | 2,382 | 1,167 | 1,215 | 0 | 64 | 64 | 4 |
| 28 | 978 | 2,654 | 3,632 | 2,072 | 1,560 | 0 | 260 | 260 | 0 |
| 29 | 955 | 1,080 | 2,035 | 1,150 | 885 | 7 | 151 | 158 | 8 |
| 30 | 523 | 1,996 | 2,519 | 877 | 1,642 | 0 | 171 | 171 | 4 |
| 31 | 437 | 4,673 | 5,110 | 2,431 | 2,679 | 48 | 260 | 308 | 0 |
| 32 | 828 | 8,612 | 9,440 | 5,690 | 3,750 | 116 | 1,104 | 1,220 | 0 |
| 33 | 1,300 | 7,490 | 8,790 | 5,254 | 3,536 | 170 | 646 | 816 | 10 |
| 34 | 1,508 | 7,274 | 8,782 | 4,740 | 4,042 | 579 | 358 | 937 | 0 |
| 35 | 3,172 | 10,426 | 13,598 | 5,771 | 7,827 | 56 | 943 | 999 | 13 |
| 36 | 10,768 | 15,691 | 26,459 | 11,045 | 15,414 | 683 | 949 | 1,632 | 6 |
| 37 | 10,228 | 10,132 | 20,360 | 6,043 | 14,317 | 909 | 788 | 1,697 | 0 |
| 38 | 2,282 | 3,518 | 5,800 | 1,847 | 3,953 | 302 | 182 | 484 | 8 |
| 39 | 122 | 784 | 906 | 116 | 790 | 0 | 77 | 77 | 1 |
| 40 |  |  | 0 |  |  |  |  | 0 | 3 |
| 41 |  |  | 0 |  |  |  |  | 0 | 0 |
| Total | 34,256 | 77,744 | 112,000 | 49,252 | 62,748 | 2,870 | 5,953 | 8,823 | 57 |

Appendix A. 15. Weekly harvest of coho salmon in the Canadian lower river commercial fishery and test fisheries 2018.

|  |  | Test |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: |
| SW | LRCF | Drift | Set | Additional | Total |
| 19 |  |  |  |  |  |
| 20 |  |  |  |  |  |
| 21 |  |  |  |  |  |
| 22 |  |  |  |  |  |
| 23 |  |  |  | 0 |  |
| 24 |  |  |  | 0 |  |
| 25 |  | 0 | 0 |  | 0 |
| 26 |  | 0 | 0 |  | 16 |
| 27 |  | 0 | 0 |  | 12 |
| 28 |  | 0 | 0 |  | 35 |
| 29 | 2 | 0 | 0 |  | 121 |
| 30 | 16 | 0 | 0 |  | 293 |
| 31 | 6 | 1 | 5 |  | 1,361 |
| 32 | 24 | 2 | 9 |  | 1,482 |
| 33 | 81 | 14 | 26 |  | 481 |
| 34 | 232 | 15 | 46 |  |  |
| 35 | 1,361 |  |  |  |  |
| 36 | 1,482 |  |  |  |  |
| 37 | 481 |  |  |  |  |
| 38 |  |  |  |  |  |
| 39 |  |  |  |  |  |
| 40 |  |  |  |  |  |
| 41 |  |  |  |  |  |
| 42 |  |  |  |  |  |
| Total | 3,685 | 32 | 86 | 0 |  |

Appendix A. 16. Weekly salmon effort in the Alaskan District 106 and 108 fisheries, 2018.

| SW | Start <br> Date | D106 |  |  | 106-41/42 |  |  | 106-30 |  |  | D108 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Permit |  |  | Permit |  |  | Permit |  |  | Permit |
|  |  | Permits | Days | Days | Permits | Days | Days | Permits | Days | Days | Permits | Days | Days |
| 25 | 16-Jun | 52 | 2.0 | 104 | 36 | 2.0 | 72 | 17 | 2.0 | 34 |  |  |  |
| 26 | 23-Jun | 44 | 3.0 | 132 | 19 | 3.0 | 57 | 26 | 3.0 | 78 |  |  |  |
| 27 | 30-Jun | 37 | 3.0 | 111 | 12 | 3.0 | 36 | 25 | 3.0 | 75 | 16 | 3.0 | 48 |
| 28 | 7-Jul | 38 | 3.0 | 114 | 19 | 3.0 | 57 | 19 | 3.0 | 57 | 35 | 4.0 | 111 |
| 29 | 14-Jul | 42 | 2.0 | 84 | 22 | 2.0 | 44 | 20 | 2.0 | 40 | 58 | 4.0 | 156 |
| 30 | 21-Jul | 69 | 2.0 | 138 | 25 | 2.0 | 50 | 46 | 2.0 | 92 | 78 | 3.0 | 172 |
| 31 | 28-Jul | 87 | 2.0 | 174 | 42 | 2.0 | 84 | 50 | 2.0 | 100 | 48 | 2.0 | 96 |
| 32 | 4-Aug | 74 | 3.0 | 222 | 39 | 3.0 | 117 | 35 | 3.0 | 105 | 54 | 3.0 | 162 |
| 33 | 11-Aug | 72 | 3.0 | 216 | 37 | 3.0 | 111 | 36 | 3.0 | 108 | 38 | 3.0 | 114 |
| 34 | 18-Aug | 72 | 3.0 | 216 | 42 | 3.0 | 126 | 32 | 3.0 | 96 | 16 | 3.0 | 48 |
| 35 | 25-Aug | 82 | 3.0 | 246 | 38 | 3.0 | 114 | 45 | 3.0 | 135 | 11 | 3.0 | 33 |
| 36 | 1-Sep | 95 | 3.0 | 285 | 45 | 3.0 | 135 | 53 | 3.0 | 159 | 13 | 3.0 | 39 |
| 37 | 8-Sep | 99 | 4.0 | 396 | 41 | 4.0 | 164 | 62 | 4.0 | 248 | 12 | 4.0 | 48 |
| 38 | 15-Sep | 63 | 3.0 | 189 | 23 | 3.0 | 69 | 41 | 3.0 | 123 | 11 | 3.0 | 33 |
| 39 | 22-Sep | 18 | 2.0 | 36 | 3 | 2.0 | 6 | 15 | 2.0 | 30 | 2 | 2.0 | 4 |
| 40 | 29-Sep |  |  | 0 |  |  | 0 |  |  | 0 |  |  |  |
| 41 | 6-Oct |  |  | 0 |  |  | 0 |  |  | 0 |  |  |  |
| Total |  |  | 41 | 2,663 |  | 41 | 1,242 |  | 41 | 1,480 |  | 40 | 1,064 |

Appendix A. 17. Weekly salmon effort in the Canadian fisheries in the Stikine River, 2018.

|  | Commercial license Test fishery |  |  |  | LRCF |  |  | URCF |  |  | Telegraph Aboriginal |  |  | Test |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| SW | Start <br> Date | Permits | Days | $\begin{array}{r} \text { Permit } \\ \text { Days } \\ \hline \end{array}$ | Permits | Days | Permit Days | Permits | Days | Permit Days | Permits | Days | Permit Days | \# Drifts | Set hours |
| 19 | 5-May |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20 | 12-May |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 | 19-May |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 22 | 26-May |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 23 | 2-Jun |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 24 | 9-Jun |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 25 | 16-Jun |  |  |  |  |  |  |  |  |  | 1 | 3.0 | 2 | 28 | 24.0 |
| 26 | 23-Jun |  |  |  | 9.70 | 1.8 | 17 |  | 1.0 |  | 4 | 7.0 | 29 | 28 | 48.0 |
| 27 | 30-Jun |  |  |  | 11.00 | 3.0 | 33 |  | 1.0 |  | 13 | 7.0 | 88 | 28 | 48.0 |
| 28 | 7-Jul |  |  |  | 11.00 | 2.0 | 22 | 1.0 | 2.0 | 2 | 21.3 | 7.0 | 149 | 28 | 72.0 |
| 29 | 14-Jul |  |  |  | 11.00 | 2.0 | 22 | 1.0 | 2.0 | 2 | 19.4 | 7.0 | 136 | 28 | 64.0 |
| 30 | 21-Jul |  |  |  | 8.70 | 3.0 | 26 | 3.0 | 2.0 |  | 18.4 | 7.0 | 129 | 28 | 72.0 |
| 31 | 28-Jul |  |  |  | 8.00 | 2.0 | 16 |  |  |  | 7.0 | 1.0 | 7 | 28 | 48.0 |
| 32 | 4-Aug |  |  |  | 5.00 | 2.0 | 10 |  |  |  |  |  |  | 28 | 48.0 |
| 33 | 11-Aug |  |  |  | 6.00 | 1.0 | 6 |  |  |  |  |  |  | 28 | 48.0 |
| 34 | 18-Aug |  |  |  | 7.00 | 1.0 | 7 |  |  |  |  |  |  | 28 | 48.0 |
| 35 | 25-Aug |  |  |  | 7.40 | 7.0 | 52 |  |  |  |  |  |  |  |  |
| 36 | 1-Sep |  |  |  | 8.50 | 6.0 | 51 |  |  |  |  |  |  |  |  |
| 37 | 8 -Sep |  |  |  | 7.00 | 4.0 | 28 |  |  |  |  |  |  |  |  |
| 38 | 15-Sep |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 39 | 22-Sep |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 40 | 29-Sep |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 41 | 6 -Oct |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 42 | 13-Oct |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total |  |  | 0.0 | 0.0 |  | 34.8 | 290.4 |  | 8.0 | 4.0 |  | 39.0 | 539.8 | 280.0 | 520.0 |

Appendix A. 19. Daily counts of adult sockeye salmon passing through Tahltan Lake weir, 2018.

| Exvacuated due to fires (ND=No data) |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Date | Count ${ }^{\text {a }}$ | Cumulative |  | Date | Count | Cumulative |  |
|  |  | Count | Percent |  |  | Count | Percent |
| 7-Jul | weir in |  |  | 13-Aug | 5 | 9,391 |  |
| 8-Jul | 0 | 0 |  | 14-Aug | 149 | 9,540 |  |
| 9-Jul | 0 | 0 |  | 15-Aug | 278 | 9,818 |  |
| 10-Jul | 0 | 0 |  | 16-Aug | 0 | 9,818 |  |
| 11-Jul | 0 | 0 |  | 17-Aug | 36 | 9,854 |  |
| 12-Jul | 0 | 0 |  | 18-Aug | ND |  |  |
| 13-Jul | 0 | 0 |  | 19-Aug | ND |  |  |
| 14-Jul | 0 | 0 |  | 20-Aug | ND |  |  |
| 15-Jul | 258 | 258 |  | 21-Aug | ND |  |  |
| 16-Jul | 1,055 | 1,313 |  | 22-Aug | ND |  |  |
| 17-Jul | 397 | 1,710 |  | 23-Aug | ND |  |  |
| 18-Jul | 198 | 1,908 |  | 24-Aug | ND |  |  |
| 19-Jul | 0 | 1,908 |  | 25-Aug | ND |  |  |
| 20-Jul | 252 | 2,160 |  | 26-Aug | ND |  |  |
| 21-Jul | 162 | 2,322 |  | 27-Aug | ND |  |  |
| 22-Jul | 462 | 2,784 |  | 28-Aug | ND |  |  |
| 23-Jul | 621 | 3,405 |  | 29-Aug | ND |  |  |
| 24-Jul | 291 | 3,696 |  | 30-Aug | ND |  |  |
| 25-Jul | 2,076 | 5,772 |  | 31-Aug | ND |  |  |
| 26-Jul | 870 | 6,642 |  | 1-Sep | ND |  |  |
| 27-Jul | 724 | 7,366 |  | 2-Sep | ND |  |  |
| 28-Jul | 569 | 7,935 |  | 3-Sep | ND |  |  |
| 29-Jul | 305 | 8,240 |  | 4-Sep | ND |  |  |
| 30-Jul | 392 | 8,632 |  | 5-Sep | ND |  |  |
| 31-Jul | 208 | 8,840 |  | 6-Sep | ND |  |  |
| 1-Aug | 120 | 8,960 |  | 7-Sep | ND |  |  |
| 2-Aug | 416 | 9,376 |  | 8-Sep | ND |  |  |
| 3-Aug | 0 | 9,376 |  | $9-\mathrm{Sep}$ |  |  |  |
| 4-Aug | 7 | 9,383 |  | 10-Sep |  |  |  |
| 5-Aug | 3 | 9,386 |  | 11-Sep |  |  |  |
| 6-Aug | ND |  |  | 12-Sep |  |  |  |
| 7-Aug | ND |  |  | 13-Sep |  |  |  |
| 8-Aug | ND |  |  | 14-Sep |  |  |  |
| 9-Aug | ND |  |  | 15-Sep |  |  |  |
| 10-Aug | ND |  |  | 16-Sep |  |  |  |
| 11-Aug | ND |  |  | 17-Sep |  |  |  |
| 12-Aug | ND |  |  | 18-Sep |  |  |  |
|  |  |  |  | \% enhanced | Enhanced | Wild | Total |
| Total Counted |  |  |  |  | 4,910 | 4,944 | 9,854 |
| Fish removed for broodstock |  |  |  | 0.498 | 936 | 942 | 1,878 |
| Fish removed for otolith samples |  |  |  | 0.611 | 127 | 80 | 207 |
| Total Spawners |  |  |  |  | 3,847 | 3,922 |  |

Appendix A. 20. Daily counts of sockeye salmon smolt migrating through Tahltan Lake smolt weir, 2018.

|  |  | Cumulative |  |  |  | Cumulative |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Date | Count | Count | Percent | Date | Count | Count | Percent |
| 4-May | Wier in |  |  |  |  |  |  |
| 5-May | 0 | 0 | $0.00 \%$ |  |  |  |  |
| 6-May | 0 | 0 | $0.00 \%$ | 2-Jun | 30,248 | 809,555 | $79.76 \%$ |
| 7-May | 2 | 2 | $0.00 \%$ | 3-Jun | 80,852 | 890,407 | $87.73 \%$ |
| 8-May | 25 | 27 | $0.00 \%$ | 4-Jun | 2,871 | 893,278 | $88.01 \%$ |
| 9-May | 249 | 276 | $0.03 \%$ | 5-Jun | 65,522 | 958,800 | $94.47 \%$ |
| 10-May | 63 | 339 | $0.03 \%$ | 6-Jun | 13,342 | 972,142 | $95.78 \%$ |
| 11-May | 1,499 | 1,838 | $0.18 \%$ | 7-Jun | 11,333 | 983,475 | $96.90 \%$ |
| 12-May | 24,702 | 26,540 | $2.61 \%$ | 8-Jun | 12,692 | 996,167 | $98.15 \%$ |
| 13-May | 3,053 | 29,593 | $2.92 \%$ | 9-Jun | 10,775 | $1,006,942$ | $99.21 \%$ |
| 14-May | 1,558 | 31,151 | $3.07 \%$ | 10-Jun | 7,135 | $1,014,077$ | $99.91 \%$ |
| 15-May | 8,998 | 40,149 | $3.96 \%$ | 11-Jun | 898 | $1,014,975$ | $100.00 \%$ |
| 16-May | 117 | 40,266 | $3.97 \%$ | 11-Jun | weir pulled |  |  |
| 17-May | 9,550 | 49,816 | $4.91 \%$ |  |  |  |  |
| 18-May | 19,458 | 69,274 | $6.83 \%$ |  |  |  |  |
| 19-May | 9,448 | 78,722 | $7.76 \%$ |  |  |  |  |
| 20-May | 68,342 | 147,064 | $14.49 \%$ |  |  |  |  |
| 21-May | 140,467 | 287,531 | $28.33 \%$ |  |  |  |  |
| 22-May | 166,423 | 453,954 | $44.73 \%$ |  |  |  |  |
| 23-May | 27,572 | 481,526 | $47.44 \%$ | enhanced | wild |  |  |
| 24-May | 153,521 | 635,047 | $62.57 \%$ | 0.627 | 0.373 |  |  |
| 25-May | 63,379 | 698,426 | $68.81 \%$ |  |  |  |  |
| 26-May | 33,483 | 731,909 | $72.11 \%$ |  |  |  |  |
| 27-May | 7,469 | 739,378 | $72.85 \%$ |  |  |  |  |
| 28-May | 3,590 | 742,968 | $73.20 \%$ |  |  |  |  |
| 29-May | 14,716 | 757,684 | $74.65 \%$ |  |  |  |  |
| 30-May | 8,141 | 765,825 | $75.45 \%$ |  |  |  |  |
| 31-May | 328 | 766,153 | $75.48 \%$ | Wild | 378,733 |  |  |
| 1-Jun | 13,154 | 779,307 | $76.78 \%$ | Hatchery | 636,242 |  |  |
| Total |  |  |  |  | $1,014,975$ |  |  |

Appendix A. 21. Daily counts of adult Chinook salmon passing through Little Tahltan weir, 2018.

| Date | Large Chinook |  |  | nonlarge Chinook |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Count | Cumulative |  | Count | Cumulative |  |
|  |  | Count | Percent |  | Count | Percent |
| 23-Jun |  |  |  |  |  |  |
| 23-Jun |  |  |  |  | 0 | 0.00\% |
| 24-Jun | weir in |  |  |  | 0 | 0.00\% |
| 25-Jun | 0 | 0 | 0.00\% | 0 | 0 | 0.00\% |
| 26-Jun | 0 | 0 | 0.00\% | 0 | 0 | 0.00\% |
| 27-Jun | 0 | 0 | 0.00\% | 0 | 0 | 0.00\% |
| 28-Jun | 0 | 0 | 0.00\% | 0 | 0 | 0.00\% |
| 29-Jun | 0 | 0 | 0.00\% | 0 | 0 | 0.00\% |
| 30-Jun | 0 | 0 | 0.00\% | 0 | 0 | 0.00\% |
| 1-Jul | 0 | 0 | 0.00\% | 1 | 1 | 0.24\% |
| 2-Jul | 2 | 2 | 0.44\% | 0 | 1 | 0.24\% |
| 3-Jul | 1 | 3 | 0.66\% | 0 | 1 | 0.24\% |
| 4-Jul | 1 | 4 | 0.88\% | 0 | 1 | 0.24\% |
| 5-Jul | 9 | 13 | 2.87\% | 6 | 7 | 1.69\% |
| 6-Jul | 1 | 14 | 3.09\% | 4 | 11 | 2.66\% |
| 7-Jul | 2 | 16 | 3.53\% | 5 | 16 | 3.87\% |
| 8-Jul | 2 | 18 | 3.97\% | 2 | 18 | 4.36\% |
| 9-Jul | 8 | 26 | 5.74\% | 4 | 22 | 5.33\% |
| 10-Jul | 9 | 35 | 7.73\% | 11 | 33 | 7.99\% |
| 11-Jul | 16 | 51 | 11.26\% | 8 | 41 | 9.93\% |
| 12-Jul | 2 | 53 | 11.70\% | 3 | 44 | 10.65\% |
| 13-Jul | 5 | 58 | 12.80\% | 3 | 47 | 11.38\% |
| 14-Jul | 3 | 61 | 13.47\% | 6 | 53 | 12.83\% |
| 15-Jul | 3 | 64 | 14.13\% | 2 | 55 | 13.32\% |
| 16-Jul | 4 | 68 | 15.01\% | 5 | 60 | 14.53\% |
| 17-Jul | 0 | 68 | 15.01\% | 2 | 62 | 15.01\% |
| 18-Jul | 45 | 113 | 24.94\% | 7 | 69 | 16.71\% |
| 19-Jul | 12 | 125 | 27.59\% | 8 | 77 | 18.64\% |
| 20-Jul | 5 | 130 | 28.70\% | 8 | 85 | 20.58\% |
| 21-Jul | 32 | 162 | 35.76\% | 21 | 106 | 25.67\% |
| 22-Jul | 39 | 201 | 44.37\% | 31 | 137 | 33.17\% |
| 23-Jul | 24 | 225 | 49.67\% | 11 | 148 | 35.84\% |
| 24-Jul | 29 | 254 | 56.07\% | 17 | 165 | 39.95\% |
| 25-Jul | 18 | 272 | 60.04\% | 16 | 181 | 43.83\% |
| 26-Jul | 12 | 284 | 62.69\% | 12 | 193 | 46.73\% |
| 27-Jul | 18 | 302 | 66.67\% | 17 | 210 | 50.85\% |
| 28-Jul | 41 | 343 | 75.72\% | 53 | 263 | 63.68\% |
| 29-Jul | 12 | 355 | 78.37\% | 19 | 282 | 68.28\% |
| 30-Jul | 10 | 365 | 80.57\% | 17 | 299 | 72.40\% |
| 31-Jul | 9 | 374 | 82.56\% | 14 | 313 | 75.79\% |
| 1-Aug | 32 | 406 | 89.62\% | 24 | 337 | 81.60\% |
| 2-Aug | 7 | 413 | 91.17\% | 20 | 357 | 86.44\% |
| 3-Aug | 1 | 414 | 91.39\% | 7 | 364 | 88.14\% |
| 4-Aug | 36 | 450 | 99.34\% | 38 | 402 | 97.34\% |
| 5-Aug | 3 | 453 | 100.00\% | 11 | 413 | 100.00\% |
| 6-Aug | camera ou | eir open |  |  |  |  |
| ------ |  |  |  |  |  |  |
| 15-Sep | weir out |  |  |  |  |  |
| Total Counted |  | 453 |  |  | 413 |  |
| Broodstock |  | 0 |  |  | 0 |  |
| Escapement |  | 453 |  |  | 413 |  |

Appendix B. 1. Historic salmon harvest and effort in the Alaskan District 106 commercial gillnet fishery, 1960-2018.

| Year | Harvest |  |  |  |  | Boats | $\begin{aligned} & \text { Days } \\ & \text { Open } \end{aligned}$ | Effort <br> Permit <br> Days |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Chinook | Sockeye | Coho | Pink | Chum |  |  |  |
| 1960 | 46 | 10,354 | 336 | 1,246 | 502 |  |  |  |
| 1961 | 416 | 20,614 | 14,934 | 124,236 | 64,479 |  |  |  |
| 1962 | 1,308 | 47,033 | 42,276 | 256,620 | 59,119 |  |  |  |
| 1963 | 1,560 | 80,767 | 52,103 | 514,596 | 90,103 |  |  |  |
| 1964 | 2,082 | 76,541 | 64,654 | 443,086 | 44,218 |  |  |  |
| 1965 | 1,802 | 87,749 | 75,728 | 625,848 | 27,658 |  |  |  |
| 1966 | 1,665 | 89,847 | 62,823 | 400,932 | 40,756 |  |  |  |
| 1967 | 1,318 | 86,385 | 17,670 | 91,609 | 26,370 |  |  |  |
| 1968 | 1,316 | 64,671 | 67,151 | 169,107 | 61,366 |  |  |  |
| 1969 | 877 | 70,484 | 10,305 | 198,785 | 10,930 | 127 | 31.0 | 2,111 |
| 1970 | 782 | 42,809 | 35,188 | 95,173 | 32,245 | 113 | 41.0 | 1,863 |
| 1971 | 1,336 | 53,262 | 48,085 | 528,737 | 37,682 | 166 | 50.0 | 2,773 |
| 1972 | 2,548 | 101,958 | 92,283 | 89,510 | 72,389 | 204 | 42.0 | 3,320 |
| 1973 | 1,961 | 72,025 | 38,447 | 304,536 | 87,704 | 245 | 26.0 | 3,299 |
| 1974 | 1,929 | 57,498 | 45,595 | 104,596 | 50,402 | 272 | 28.0 | 2,178 |
| 1975 | 2,587 | 32,099 | 30,962 | 203,031 | 24,047 | 168 | 17.0 | 1,648 |
| 1976 | 386 | 15,493 | 19,126 | 139,641 | 6,868 | 135 | 22.0 | 827 |
| 1977 | 671 | 67,394 | 8,389 | 422,955 | 13,311 | 168 | 28.0 | 1,381 |
| 1978 | 2,682 | 41,574 | 55,578 | 224,715 | 16,545 | 158 | 26.5 | 1,509 |
| 1979 | 2,720 | 66,373 | 31,454 | 648,212 | 35,507 | 238 | 25.0 | 2,702 |
| 1980 | 580 | 107,422 | 16,666 | 45,662 | 26,291 | 169 | 25.0 | 1,324 |
| 1981 | 1,565 | 182,001 | 22,614 | 437,573 | 34,296 | 221 | 26.0 | 2,925 |
| 1982 | 1,648 | 193,801 | 31,584 | 25,533 | 18,646 | 174 | 23.0 | 1,699 |
| 1983 | 567 | 48,842 | 62,442 | 208,290 | 20,144 | 140 | 32.0 | 1,452 |
| 1984 | 892 | 91,653 | 41,359 | 343,255 | 70,303 | 152 | 32.0 | 1,814 |
| 1985 | 1,687 | 264,987 | 91,188 | 584,953 | 69,673 | 186 | 32.0 | 2,672 |
| 1986 | 1,704 | 145,709 | 194,912 | 308,484 | 82,289 | 237 | 32.0 | 3,509 |
| 1987 | 836 | 136,427 | 34,534 | 243,482 | 42,025 | 199 | 20.0 | 1,766 |
| 1988 | 1,104 | 92,529 | 13,103 | 69,559 | 69,620 | 196 | 19.0 | 1,494 |
| 1989 | 1,544 | 192,734 | 92,385 | 1,101,194 | 67,351 | 185 | 34.0 | 3,221 |
| 1990 | 2,108 | 185,805 | 164,235 | 319,186 | 73,232 | 219 | 34.0 | 3,501 |
| 1991 | 2,055 | 144,104 | 198,160 | 133,566 | 124,630 | 213 | 39.0 | 3,620 |
| 1992 | 1,355 | 203,155 | 298,935 | 94,248 | 140,468 | 206 | 40.0 | 4,229 |
| 1993 | 992 | 205,955 | 231,038 | 537,960 | 134,601 | 239 | 38.0 | 4,352 |
| 1994 | 754 | 211,048 | 267,862 | 179,994 | 176,026 | 230 | 43.0 | 4,467 |
| 1995 | 951 | 207,298 | 170,561 | 448,163 | 300,078 | 187 | 34.0 | 3,656 |
| 1996 | 644 | 311,100 | 223,640 | 188,035 | 283,290 | 212 | 46.0 | 5,289 |
| 1997 | 1,075 | 168,518 | 77,550 | 789,051 | 186,456 | 202 | 39.0 | 3,667 |
| 1998 | 518 | 113,435 | 273,197 | 502,655 | 332,022 | 184 | 43.0 | 4,397 |
| 1999 | 518 | 104,835 | 203,301 | 491,179 | 448,409 | 199 | 49.0 | 4,854 |
| 2000 | 1,220 | 90,076 | 96,207 | 156,619 | 199,836 | 168 | 33.0 | 2,408 |
| 2001 | 1,138 | 164,013 | 188,465 | 825,447 | 283,462 | 183 | 50.0 | 3,853 |
| 2002 | 446 | 56,135 | 226,560 | 82,951 | 112,541 | 154 | 47.0 | 2,683 |
| 2003 | 422 | 116,904 | 212,057 | 470,697 | 300,253 | 157 | 59.0 | 3,803 |
| 2004 | 2,735 | 116,259 | 138,631 | 245,237 | 110,574 | 151 | 55.0 | 2,735 |
| 2005 | 1,572 | 110,192 | 114,440 | 461,187 | 198,564 | 152 | 53.0 | 2,963 |
| 2006 | 1,948 | 91,980 | 69,015 | 149,907 | 268,436 | 143 | 45.0 | 2,035 |
| 2007 | 2,144 | 92,481 | 80,573 | 383,355 | 297,998 | 153 | 49.0 | 2,740 |
| 2008 | 1,619 | 30,533 | 116,074 | 90,217 | 102,156 | 144 | 46.0 | 2,195 |
| 2009 | 2,138 | 111,984 | 144,569 | 143,589 | 287,707 | 170 | 45.0 | 3,252 |
| 2010 | 2,473 | 112,450 | 225,550 | 309,795 | 97,948 | 180 | 47.0 | 3,161 |
| 2011 | 3,008 | 146,069 | 117,860 | 337,169 | 158,096 | 164 | 41.0 | 2,647 |
| 2012 | 1,853 | 45,466 | 121,418 | 129,646 | 104,307 | 133 | 40.0 | 1,929 |
| 2013 | 2,202 | 49,223 | 160,659 | 474,551 | 94,260 | 146 | 62.0 | 3,276 |
| 2014 | 2,092 | 58,430 | 286,815 | 415,392 | 106,243 | 143 | 58.0 | 3,280 |
| 2015 | 2,723 | 121,921 | 112,561 | 224,816 | 232,390 | 130 | 47.0 | 2,402 |
| 2016 | 2,094 | 106,649 | 122,101 | 358,309 | 130,236 | 138 | 47.0 | 2,642 |
| 2017 | 1,521 | 45,005 | 49,382 | 302,033 | 234,349 | 149 | 41.0 | 2,263 |
| 2018 | 3,247 | 25,203 | 112,000 | 348,277 | 176,392 | 151 | 41.0 | 2,663 |
| 60-17 | 1,490 | 106,242 | 105,264 | 313,795 | 117,610 | 178 | 38 | 2,812 |
| 08-17 | 2,172 | 82,773 | 145,699 | 278,552 | 154,769 | 150 | 47 | 2,705 |

Appendix B. 2 Historic salmon harvest and effort in the Alaskan District 108 commercial gillnet fishery, 1962-2018.

| Year | Harvest |  |  |  |  | Boats | $\begin{aligned} & \text { Days } \\ & \text { Open } \end{aligned}$ | Effort <br> Permit <br> Days |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Chinook | Sockeye | Coho | Pink | Chum |  |  |  |
| 1962 | 618 | 4,430 | 3,921 | 2,889 | 2,035 |  |  |  |
| 1963 | 1,431 | 9,979 | 11,612 | 10,198 | 11,024 |  |  |  |
| 1964 | 2,911 | 20,299 | 29,388 | 114,555 | 10,771 |  |  |  |
| 1965 | 3,106 | 21,419 | 8,301 | 4,729 | 2,480 |  |  |  |
| 1966 | 4,516 | 36,710 | 16,493 | 61,908 | 17,730 |  |  |  |
| 1967 | 6,372 | 29,226 | 6,747 | 4,713 | 5,955 |  |  |  |
| 1968 | 4,604 | 14,594 | 36,407 | 91,028 | 14,537 |  |  |  |
| 1969 | 5,021 | 19,211 | 5,791 | 11,962 | 2,318 | 85 | 55 | 1,084 |
| 1970 | 3,199 | 15,121 | 18,529 | 20,523 | 12,304 | 94 | 54 | 1,222 |
| 1971 | 3,717 | 18,143 | 14,876 | 22,216 | 4,665 | 85 | 57 | 1,061 |
| 1972 | 9,342 | 51,725 | 38,440 | 17,197 | 17,442 | 146 | 64 | 2,094 |
| 1973 | 9,254 | 21,393 | 5,837 | 6,585 | 6,680 | 155 | 39 | 1,519 |
| 1974 | 8,199 | 2,428 | 16,021 | 4,188 | 2,107 | 140 | 31 | 1,240 |
| 1975 | 1,529 | 0 | 0 | 0 | 1 | 58 | 8 | 257 |
| 1976 | 1,123 | 18 | 6,074 | 722 | 124 | 70 | 20 | 372 |
| 1977 | 1,443 | 48,385 | 14,424 | 16,318 | 4,233 | 106 | 23 | 742 |
| 1978 | 531 | 56 | 32,650 | 1,157 | 1,001 | 112 | 12 | 565 |
| 1979 | 91 | 2,158 | 234 | 13,478 | 1,064 | 25 | 5 | 94 |
| 1980 | 631 | 14,053 | 2,946 | 7,224 | 6,910 | 62 | 22 | 327 |
| 1981 | 283 | 8,833 | 1,403 | 1,466 | 3,594 | 53 | 11 | 217 |
| 1982 | 1,052 | 7,136 | 20,003 | 16,174 | 734 | 96 | 21 | 494 |
| 1983 | 47 | 178 | 15,369 | 4,171 | 675 | 45 | 17 | 260 |
| 1984 | 14 | 1,290 | 5,141 | 4,960 | 1,892 | 15 | 16 | 88 |
| 1985 | 20 | 1,060 | 1,926 | 5,325 | 1,892 | 17 | 13 | 45 |
| 1986 | 102 | 4,185 | 7,439 | 4,901 | 5,928 | 48 | 25 | 216 |
| 1987 | 149 | 1,620 | 1,015 | 3,331 | 949 | 25 | 13 | 81 |
| 1988 | 206 | 1,246 | 12 | 144 | 3,109 | 21 | 8 | 60 |
| 1989 | 310 | 10,083 | 4,261 | 27,640 | 3,375 | 46 | 29 | 223 |
| 1990 | 557 | 11,574 | 8,218 | 13,822 | 9,382 | 55 | 34 | 359 |
| 1991 | 1,366 | 17,987 | 15,629 | 6,406 | 5,977 | 117 | 49 | 636 |
| 1992 | 967 | 52,717 | 22,127 | 66,742 | 15,458 | 135 | 51 | 1,247 |
| 1993 | 1,628 | 76,874 | 14,307 | 39,661 | 22,504 | 157 | 48 | 1,569 |
| 1994 | 1,996 | 97,224 | 44,891 | 35,405 | 27,658 | 179 | 58 | 2,198 |
| 1995 | 1,702 | 76,756 | 17,834 | 37,788 | 54,296 | 158 | 50 | 1,768 |
| 1996 | 1,717 | 154,150 | 19,059 | 37,651 | 135,623 | 190 | 57 | 2,393 |
| 1997 | 2,566 | 93,039 | 2,140 | 65,745 | 38,913 | 173 | 44 | 1,808 |
| 1998 | 460 | 22,031 | 19,206 | 39,246 | 41,057 | 119 | 45 | 947 |
| 1999 | 1,049 | 36,601 | 28,437 | 48,552 | 117,196 | 150 | 54 | 1,675 |
| 2000 | 1,671 | 15,833 | 5,651 | 9,497 | 40,337 | 100 | 35 | 606 |
| 2001 | 7 | 610 | 10,731 | 11,012 | 5,397 | 59 | 34 | 377 |
| 2002 | 25 | 208 | 21,131 | 4,578 | 2,017 | 42 | 30 | 323 |
| 2003 | 312 | 42,158 | 38,795 | 76,113 | 51,701 | 100 | 56 | 1,270 |
| 2004 | 7,410 | 103,392 | 26,617 | 20,439 | 37,996 | 124 | 53 | 1,830 |
| 2005 | 26,970 | 99,465 | 42,203 | 106,395 | 150,121 | 161 | 78 | 4,239 |
| 2006 | 30,033 | 61,298 | 34,430 | 56,810 | 343,827 | 160 | 64 | 3,437 |
| 2007 | 17,463 | 70,580 | 19,880 | 39,872 | 177,573 | 147 | 56 | 2,586 |
| 2008 | 14,599 | 35,679 | 34,479 | 18,105 | 81,876 | 171 | 58 | 2,895 |
| 2009 | 2,830 | 36,680 | 30,860 | 27,010 | 190,800 | 151 | 47 | 1,932 |
| 2010 | 2,359 | 32,737 | 42,772 | 58,610 | 51,005 | 146 | 45 | 1,382 |
| 2011 | 5,321 | 51,478 | 20,720 | 65,022 | 142,526 | 150 | 41 | 1,671 |
| 2012 | 8,027 | 21,997 | 20,100 | 16,374 | 240,569 | 128 | 43 | 1,642 |
| 2013 | 10,817 | 20,609 | 43,669 | 116,026 | 103,365 | 127 | 60 | 2,334 |
| 2014 | 8,023 | 19,808 | 30,184 | 33,830 | 84,771 | 107 | 62 | 1,501 |
| 2015 | 13,845 | 22,896 | 30,153 | 35,926 | 166,009 | 124 | 50 | 1,992 |
| 2016 | 10,024 | 70,143 | 22,146 | 35,250 | 200,653 | 141 | 58 | 2,342 |
| 2017 | 3,817 | 14,282 | 13,592 | 49,027 | 177,119 | 122 | 43 | 1,382 |
| 2018 | 2,649 | 5,731 | 8,823 | 15,643 | 133,812 | 103 | 40 | 1,064 |
| 60-17 | 4,418 | 30,782 | 17,950 | 29,475 | 51,094 | 106 | 40 | 1,237 |
| 08-17 | 7,966 | 32,631 | 28,868 | 45,518 | 143,869 | 137 | 51 | 1,907 |

Appendix B. 3. District 108 total Chinook salmon estimates in the US gillnet, troll, recreational, and subsistence fisheries, 2005-2018.

| Year | Subsistence |  | Sport |  | Drift Gillnet |  |  | Troll |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Large | nonlarge | Large | Large non-Stikine | Large | Large non-Stikine | nonlarge | Large | Large non-Stikine |
| 2005 | 15 | 8 | 3,242 | 240 | 23,932 | 1,690 | 2,636 | 5,014 | 684 |
| 2006 | 37 | 17 | 4,058 | 1,028 | 26,864 | 4,717 | 2,951 | 2,915 | 1,021 |
| 2007 | 28 | 15 | 3,881 | 608 | 14,421 | 4,716 | 2,787 | 2,459 | 646 |
| 2008 | 26 | 6 | 1,984 | 632 | 12,682 | 5,667 | 1,673 | 1,742 | 131 |
| 2009 | 31 | 19 | 907 | 146 | 1,901 | 1,264 | 601 | 312 | 519 |
| 2010 | 53 | 18 | 1,072 | 107 | 1,107 | 759 | 978 | 946 | 519 |
| 2011 | 61 | 20 | 1,273 | 210 | 2,801 | 1,690 | 1,831 | 631 | 168 |
| 2012 | 46 | 20 | 1,396 | 286 | 4,884 | 2,869 | 2,825 | 859 | 353 |
| 2013 | 41 | 36 | 1,297 | 125 | 6,676 | 4,503 | 3,733 | 680 | 246 |
| 2014 | 44 | 28 | 1,968 | 352 | 4,753 | 4,616 | 2,704 | 1,585 | 908 |
| 2015 | 34 | 19 | 1,739 | 693 | 8,020 | 8,361 | 4,640 | 684 | 340 |
| 2016 | 20 | 26 | 1,442 | 227 | 4,824 | 4,126 | 4,232 | 1,028 | 460 |
| 2017 | 14 | 43 | 656 | 406 | 2,221 | 2,149 | 1,107 | 115 | 80 |
| 2018 | 22 | 66 | 12 | 0 | 852 | 738 | 1,313 | 0 | 0 |
| Averages |  |  |  |  |  |  |  |  |  |
| 08-17 | 37 | 24 | 1,373 | 318 | 4,987 | 3,600 | 2,432 | 858 | 372 |

Appendix B. 4. Annual estimates of Stikine River large Chinook salmon in the U.S. gillnet, troll, recreational, and subsistence and estimates of Stikine River bound Chinook salmon in District 108, 2005-2018.
GSI used for sport and gillnet. Troll is based on GSI 2005-2008 and CWT 2009-present. For detailed GSI stock comp estimates see Appendix G. 5.

|  |  | D108 Large Stikine Chinook |  | Total Large |  |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Year | iubsistencı | Sport | Gillnet | Troll | Stikine Chinook |
| 2010 |  | 0.546 | 0.215 |  |  |
| 2011 |  | 0.509 | 0.346 |  |  |
| 2012 |  | 0.423 | 0.248 |  |  |
| 2013 |  | 0.490 | 0.068 |  |  |
| 2014 |  | 0.354 | 0.043 |  |  |
| 2015 |  | 0.449 | 0.047 |  |  |
| 2016 |  | 0.304 | 0.220 |  |  |
| 2017 | 0.212 | 0.008 |  |  |  |
| 2018 |  | CWT estimate | 0.006 |  |  |
| Average |  |  |  |  |  |
| $10-17$ |  | 0.411 | 0.149 |  | 27,882 |
| 2005 | 15 | 3,665 | 21,233 | 2,969 |  |
| 2006 | 37 | 3,346 | 17,259 | 1,418 | 10,885 |
| 2007 | 36 | 2,218 | 7,057 | 1,574 | 7,335 |
| 2008 | 26 | 1,453 | 4,905 | 951 | 1,350 |
| 2009 | 31 | 887 | 244 | 188 | 1,303 |
| 2010 | 53 | 586 | 238 | 427 | 2,142 |
| 2011 | 61 | 648 | 970 | 463 | 2,353 |
| 2012 | 46 | 591 | 1,209 | 506 | 1,566 |
| 2013 | 41 | 636 | 455 | 434 | 1,622 |
| 2014 | 44 | 697 | 204 | 677 | 1,500 |
| 2015 | 34 | 781 | 379 | 306 | 1,707 |
| 2016 | 20 | 438 | 1,060 | 190 | 207 |
| 2017 | 14 | 139 | 19 | 35 | 39 |
| 2018 | 22 | $\mathbf{1 2}$ | 5 | 0 |  |
|  |  |  |  |  |  |

Appendix B. 5. Chinook salmon harvest in the Alaskan District 106 and 108 test fisheries, 1984-2018.

| Table only includes years when test fisheries were operated. |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: |
|  | Large Chinook |  |  |  |
| Year | Total 106 | $106-41 / 42$ | $106-30$ | 108 |
| 1984 | 13 | 13 |  | 37 |
| 1985 | 16 | 16 | 33 |  |
| 1986 | 47 | 23 | 24 | 79 |
| 1987 | 25 | 24 | 1 | 30 |
| 1988 | 21 | 11 | 10 | 65 |
| 1989 | 15 | 11 | 4 | 15 |
| 1990 | 13 | 13 |  | 19 |
| 1991 |  |  | 21 |  |
| 1992 |  |  | 26 |  |
| 1993 |  |  | 30 |  |
| 1994 | 0 |  |  |  |
| -- |  |  | 0 |  |
| 1998 |  |  | 29 |  |
| 1999 |  |  | 21 |  |
| 2000 |  |  |  |  |
| --- |  |  |  |  |
| 2009 |  |  |  |  |

Appendix B. 6. Chinook salmon catch and harvest in the Canadian commercial and recreational fisheries in the Stikine River, 1979-2018.

| Year | LRCF |  |  |  |  |  | URCF |  | Telegraph Aboriginal |  | Tahltan sport fishery |  | Total |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Large |  | NonLarge |  | Large | Nonlarge | Large | Nonlarge | Large | Nonlarge | Large Fish |  | Nonlarge Fish |  |
|  | Large | Nonlarge | Released | mortality | Released | mortality |  |  |  |  |  |  | Harvest | Mortality | Harvest | Mortality |
| 1972 |  |  |  |  |  |  |  |  |  |  |  |  | 0 | 0 | 0 | 0 |
| 1973 |  |  |  |  |  |  |  |  | 200 |  |  |  | 200 | 0 | 0 | 0 |
| 1974 |  |  |  |  |  |  |  |  | 100 |  |  |  | 100 | 0 | 0 | 0 |
| 1975 |  |  |  |  |  |  | 178 |  | 1,024 |  |  |  | 1,202 | 0 | 0 | 0 |
| 1976 |  |  |  |  |  |  | 236 |  | 924 |  |  |  | 1,160 | 0 | 0 | 0 |
| 1977 |  |  |  |  |  |  | 62 |  | 100 |  |  |  | 162 | 0 | 0 | 0 |
| 1978 |  |  |  |  |  |  | 100 |  | 400 |  |  |  | 500 | 0 | 0 | 0 |
| $1979{ }^{\text {b }}$ | 712 | 63 |  |  |  |  |  |  | 850 |  | 74 | 10 | 1,636 | 0 | 73 | 0 |
| 1980 | 1,488 |  |  |  |  |  | 156 |  | 587 |  | 136 | 18 | 2,367 | 0 | 18 | 0 |
| 1981 | 664 |  |  |  |  |  | 154 |  | 586 |  | 213 | 28 | 1,617 | 0 | 28 | 0 |
| 1982 | 1,693 |  |  |  |  |  | 76 |  | 618 |  | 181 | 24 | 2,568 | 0 | 24 | 0 |
| 1983 | 492 | 430 |  |  |  |  | 75 |  | 851 | 215 | 38 | 5 | 1,456 | 0 | 650 | 0 |
| $1984{ }^{\text {c }}$ |  |  |  |  |  |  |  |  | 643 | 59 | 83 | 11 | 726 | 0 | 70 | 0 |
| 1985 | 256 | 91 |  |  |  |  | 62 |  | 793 | 94 | 92 | 12 | 1,203 | 0 | 197 | 0 |
| 1986 | 806 | 365 |  |  |  |  | 104 | 41 | 1,026 | 569 | 93 | 12 | 2,029 | 0 | 987 | 0 |
| 1987 | 909 | 242 |  |  |  |  | 109 | 19 | 1,183 | 183 | 138 | 18 | 2,339 | 0 | 462 | 0 |
| 1988 | 1,007 | 201 |  |  |  |  | 175 | 46 | 1,178 | 197 | 204 | 27 | 2,564 | 0 | 471 | 0 |
| 1989 | 1,537 | 157 |  |  |  |  | 54 | 17 | 1,078 | 115 | 132 | 18 | 2,801 | 0 | 307 | 0 |
| 1990 | 1,569 | 680 |  |  |  |  | 48 | 20 | 633 | 259 | 129 | 17 | 2,379 | 0 | 976 | 0 |
| 1991 | 641 | 318 |  |  |  |  | 117 | 32 | 753 | 310 | 129 | 17 | 1,640 | 0 | 677 | 0 |
| 1992 | 873 | 89 |  |  |  |  | 56 | 19 | 911 | 131 | 181 | 24 | 2,021 | 0 | 263 | 0 |
| 1993 | 830 | 164 |  |  |  |  | 44 | 2 | 929 | 142 | 386 | 52 | 2,189 | 0 | 360 | 0 |
| 1994 | 1,016 | 158 |  |  |  |  | 76 | 1 | 698 | 191 | 218 | 29 | 2,008 | 0 | 379 | 0 |
| 1995 | 1,067 | 599 |  |  |  |  | 9 | 17 | 570 | 244 | 107 | 14 | 1,753 | 0 | 874 | 0 |
| 1996 | 1,708 | 221 |  |  |  |  | 41 | 44 | 722 | 156 | 162 | 22 | 2,633 | 0 | 443 | 0 |
| 1997 | 3,283 | 186 |  |  |  |  | 45 | 6 | 1,155 | 94 | 188 | 25 | 4,671 | 0 | 311 | 0 |
| 1998 | 1,614 | 328 |  |  |  |  | 12 | 0 | 538 | 95 | 165 | 22 | 2,329 | 0 | 445 | 0 |
| 1999 | 2,127 | 789 |  |  |  |  | 24 | 12 | 765 | 463 | 166 | 22 | 3,082 | 0 | 1,286 | 0 |
| 2000 | 1,970 | 240 |  |  |  |  | 7 | 2 | 1,109 | 386 | 226 | 30 | 3,312 | 0 | 658 | 0 |
| 2001 | 826 | 59 |  |  |  |  | 0 | 0 | 665 | 44 | 190 | 12 | 1,681 | 0 | 115 | 0 |
| 2002 | 433 | 209 |  |  |  |  | 2 | 3 | 927 | 366 | 420 | 46 | 1,782 | 0 | 624 | 0 |
| 2003 | 695 | 672 |  |  |  |  | 19 | 12 | 682 | 373 | 167 | 46 | 1,563 | 0 | 1,103 | 0 |
| 2004 | 2,481 | 2,070 |  |  |  |  | 0 | 1 | 1,425 | 497 | 91 | 18 | 3,997 | 0 | 2,586 | 0 |
| 2005 | 19,070 | 1,181 |  |  |  |  | 28 | 1 | 800 | 94 | 118 |  | 20,016 | 0 | 1,276 | 0 |
| 2006 | 15,098 | 1,955 |  |  |  |  | 22 | 1 | 616 | 122 | 40 |  | 15,776 | 0 | 2,078 | 0 |
| 2007 | 10,131 | 1,469 |  |  |  |  | 10 | 25 | 364 | 233 | 0 |  | 10,505 | 0 | 1,727 | 0 |
| 2008 | 7,051 | 908 |  |  |  |  | 40 | 9 | 769 | 150 | 46 |  | 7,906 | 0 | 1,067 | 0 |
| 2009 | 1,587 | 498 | 339 | 170 | 153 | 77 | 11 | 26 | 496 | 136 | 20 |  | 2,114 | 170 | 660 | 77 |
| 2010 | 1,209 | 698 | 64 | 32 | 56 | 28 | 16 | 48 | 512 | 232 | 50 |  | 1,787 | 32 | 978 | 28 |
| 2011 | 1,737 | 1,260 | 58 | 29 | 100 | 50 | 2 | 14 | 515 | 218 | 53 | 23 | 2,307 | 29 | 1,515 | 50 |
| 2012 | 4,054 | 1,043 | 10 | 5 | 53 | 27 | 6 | 0 | 513 | 170 | 64 |  | 4,637 | 5 | 1,213 | 27 |
| 2013 | 1,086 | 815 | 1 | 1 | 37 | 19 | 8 | 0 | 809 | 508 | 50 |  | 1,953 | 1 | 1,323 | 19 |
| 2014 | 896 | 511 | 15 | 8 | 8 | 4 | 0 | 0 | 1,020 | 103 | 50 | 0 | 1,966 | 8 | 614 | 4 |
| 2015 | 3,134 | 1,339 | 0 | 0 | 0 | 0 | 1 | 0 | 1,022 | 198 | 76 | 25 | 4,233 | 0 | 1,562 | 0 |
| 2016 | 2,116 | 655 | 0 | 0 | 0 | 0 | 0 | 0 | 615 | 139 | 0 | 0 | 2,731 | 0 | 794 | 0 |
| 2017 | 312 | 610 | 258 | 129 | 9 | 5 | 0 | 0 | 281 | 178 | 0 | 0 | 593 | 129 | 788 | 5 |
| 2018 | 0 | 0 | 476 | 238 | 636 | 318 | 0 | 0 | 165 | 456 | 0 | 0 | 165 | 238 | 456 | 318 |
| Averages |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 85-17 | 2,822 | 630 |  |  |  |  | 35 | 13 | 790 | 224 | 126 |  | 3,773 |  | 882 |  |
| 08-17 | 2,318 | 834 |  |  |  |  | 8 | 10 | 655 | 203 | 41 |  | 3,023 | 37 | 1,051 | 21 |

Appendix B. 7. Chinook salmon catch and harvest in inriver test fisheries in the Stikine River, 1985-2018.

| Year | Total Test |  |  |  |  |  |  |  |  |  | Commercial license |  | Tuya |  | Total |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Drift |  | Set |  | Additional drift |  | Released |  | stimated mortality (50\% |  |  |  | Large Fish | Nonlarge Fish |  |
|  | Large | Nonlarge | Large | Nonlarge | Large | Nonlarge | Large | Nonlarge | Large | Nonlarge | Large | Nonlarge |  |  | Large | Nonlarge | Catch/harvest | Mortality | Catch/harvest | Mortality |
| 1985 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 | 0 | 0 | 0 |
| 1986 | 27 | 12 |  |  |  |  |  |  |  |  |  |  |  |  | 27 | 0 | 12 | 0 |
| 1987 | 128 |  | 61 |  |  |  |  |  |  |  |  |  |  |  | 189 | 0 | 0 | 0 |
| 1988 | 168 | 14 | 101 | 15 |  |  |  |  |  |  |  |  |  |  | 269 | 0 | 29 | 0 |
| 1989 | 116 | 4 | 101 | 20 |  |  |  |  |  |  |  |  |  |  | 217 | 0 | 24 | 0 |
| 1990 | 167 | 6 | 64 | 12 |  |  |  |  |  |  |  |  |  |  | 231 | 0 | 18 | 0 |
| 1991 | 90 | 1 | 77 | 15 |  |  |  |  |  |  |  |  |  |  | 167 | 0 | 16 | 0 |
| 1992 | 135 | 27 | 62 | 21 | 417 | 134 |  |  |  |  |  |  |  |  | 614 | 0 | 182 | 0 |
| 1993 | 94 | 11 | 85 | 11 | 389 | 65 |  |  |  |  |  |  |  |  | 568 | 0 | 87 | 0 |
| 1994 | 43 | 4 | 74 | 34 | 178 | 40 |  |  |  |  |  |  |  |  | 295 | 0 | 78 | 0 |
| 1995 | 18 | 13 | 61 | 35 | 169 | 136 |  |  |  |  |  |  |  |  | 248 | 0 | 184 | 0 |
| 1996 | 42 | 5 | 64 | 40 | 192 | 31 |  |  |  |  |  |  |  |  | 298 | 0 | 76 | 0 |
| 1997 | 30 | 7 |  |  |  |  |  |  |  |  |  |  |  |  | 30 | 0 | 7 | 0 |
| 1998 | 25 | 11 |  |  |  |  |  |  |  |  |  |  |  |  | 25 | 0 | 11 | 0 |
| 1999 | 53 | 43 | 49 | 16 | 751 | 38 |  |  |  |  |  |  |  |  | 853 | 0 | 97 | 0 |
| 2000 | 59 | 4 | 87 | 0 | 787 | 14 |  |  |  |  |  |  |  |  | 933 | 0 | 18 | 0 |
| 2001 | 128 | 3 | 56 | 7 | 1,652 | 49 |  |  |  |  |  |  |  |  | 1,836 | 0 | 59 | 0 |
| 2002 | 63 | 50 | 48 | 56 | 1,545 | 217 |  |  |  |  |  |  |  |  | 1,656 | 0 | 323 | 0 |
| 2003 | 64 | 62 | 14 | 91 | 1,225 | 617 |  |  |  |  |  |  |  |  | 1,303 | 0 | 770 | 0 |
| 2004 | 29 | 41 | 22 | 39 | 0 | 0 |  |  |  |  |  |  |  |  | 51 | 0 | 80 | 0 |
| 2005 | 14 | 8 | 19 | 13 | 0 | $0$ |  |  |  |  |  |  |  |  | 33 | 0 | 21 | 0 |
| 2006 | 0 | 0 | 0 | 0 | 0 | $0$ |  |  |  |  |  |  |  |  | 0 | 0 | 0 | 0 |
| 2007 | 2 | 0 | 3 | 0 | 0 | 0 |  |  |  |  |  |  |  |  | 5 | 0 | 0 | 0 |
| 2008 | 7 | 2 | 6 | 8 | 0 | 0 |  |  |  |  |  |  | 13 |  | 26 | 0 | 10 | 0 |
| 2009 | 3 | 0 | 0 | 0 | 0 | 0 |  |  |  |  |  |  | 29 |  | 32 | 0 | 0 | 0 |
| 2010 | 2 | 0 | 3 | 1 | 0 | 0 |  |  |  |  | 1,364 | 140 | 8 | 8 | 1,377 | 0 | 149 | 0 |
| 2011 | 22 | 28 | 0 | 1 | 0 | 0 |  |  |  |  | 799 | 219 | 13 | 6 | 834 | 0 | 254 | 0 |
| 2012 | 54 | 31 | 8 | 8 | 0 | 0 |  |  |  |  | 467 | 49 | 44 | 5 | 573 | 0 | 93 | 0 |
| 2013 | 6 | 4 | 4 | 8 | 0 | 0 |  |  |  |  | 1,406 | 268 | 1 | 19 | 1,417 | 0 | 299 | 0 |
| 2014 | 18 | 12 | 5 | 6 | 0 | 0 |  |  |  |  | 1,319 | 127 | 19 | 5 | 1,361 | 0 | 150 | 0 |
| 2015 | 22 | 23 | 3 | 36 | 0 | 0 |  |  |  |  | 0 | 0 |  |  | 25 | 0 | 59 | 0 |
| 2016 | 16 | 12 | 5 | 4 | 0 | 0 |  |  |  |  | 483 | 39 |  |  | 504 | 0 | 55 | 0 |
| 2017 | 7 | 13 | 3 | 10 | 0 | 0 |  |  |  |  | 0 | 0 |  |  | 10 | 0 | 23 | 0 |
| 2018 | 0 | 0 | 0 | 0 | 0 | 0 | 21 | 37 | 11 | 19 | 0 | 0 |  |  | 0 | 11 | 0 | 19 |
| Averages |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 85-17 | 52 | 15 | 37 | 18 | 304 | 56 |  |  |  |  |  |  |  |  | 500 |  | 100 |  |
| 08-17 | 16 | 13 | 4 | 8 | 0 | 0 |  |  |  |  |  |  |  |  | 616 |  | 109 |  |

Appendix B. 8. Index counts of Stikine River large Chinook salmon escapements, 19792018.

| Year | Above border run |  | Canadian harvest | Inriver leased mortalit | Escapement | $\begin{gathered} \text { U.S. } \\ \text { harvest } \end{gathered}$ | Terminal <br> Run | \% to ittle Tahlta | Little Tahltan |  | Tahltan <br> Aerial | Beatty Aerial | Andrew Creek | Andrew <br> Comments |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | ırk-recapt | Telemetry |  |  |  |  |  |  | Weir | Aerial |  |  |  |  |
| 1979 |  |  |  |  |  |  |  |  |  | 1,166 | 2,118 |  | 327 | Weir inc. broodstock |
| 1980 |  |  |  |  |  |  |  |  |  | 2,137 | 960 | 122 | 282 | Weir inc. broodstock |
| 1981 |  |  |  |  |  |  |  |  |  | 3,334 | 1,852 | 558 | 536 | Weir inc. broodstock |
| 1982 |  |  |  |  |  |  |  |  |  | 2,830 | 1,690 | 567 | 672 | Weir inc. broodstock |
| 1983 |  |  |  |  |  |  |  |  |  | 594 | 453 | 83 | 366 | Weir inc. broodstock |
| 1984 |  |  |  |  |  |  |  |  |  | 1,294 |  | 126 | 389 | Weir inc. broodstock |
| 1985 |  |  |  |  |  |  |  |  | 3,114 | 1,598 | 1,490 | 147 | 624 | Foot |
| 1986 |  |  |  |  |  |  |  |  | 2,891 | 1,201 | 1,400 | 183 | 1,381 | Foot |
| 1987 |  |  |  |  |  |  |  |  | 4,783 | 2,706 | 1,390 | 312 | 1,537 | Heli |
| 1988 |  |  |  |  |  |  |  |  | 7,292 | 3,796 | 4,384 | 593 | 1,100 | Foot |
| 1989 |  |  |  |  |  |  |  |  | 4,715 | 2,527 |  | 362 | 1,034 | Aerial |
| 1990 |  |  |  |  |  |  |  |  | 4,392 | 1,755 | 2,134 | 271 | 1,295 | Foot |
| 1991 |  |  |  |  |  |  |  |  | 4,506 | 1,768 | 2,445 | 193 | 780 | Aerial |
| 1992 |  |  |  |  |  |  |  |  | 6,627 | 3,607 | 1,891 | 362 | 1,517 | Heli |
| 1993 |  |  |  |  |  |  |  |  | 11,437 | 4,010 | 2,249 | 757 | 2,067 | Foot |
| 1994 |  |  |  |  |  |  |  |  | 6,373 | 2,422 |  | 184 | 1,115 | Heli |
| 1995 |  |  |  |  |  |  |  |  | 3,072 | 1,117 | 696 | 152 | 669 | Foot |
| 1996 | 31,718 |  | 2,931 | 0 | 28,787 |  |  | 0.167 | 4,821 | 1,920 | 772 | 218 | 653 | Heli |
| 1997 | 31,509 |  | 4,701 | 0 | 26,808 |  |  | 0.207 | 5,547 | 1,907 | 260 | 218 | 571 | Foot |
| 1998 | 28,133 |  | 2,354 | 0 | 25,779 |  |  | 0.189 | 4,873 | 1,385 | 587 | 125 | 950 | Foot |
| 1999 | 23,716 |  | 3,935 | 0 | 19,781 |  |  | 0.239 | 4,733 | 1,379 |  |  | 1,180 | Aerial |
| 2000 | 30,301 |  | 4,245 | 0 | 26,056 |  |  | 0.254 | 6,631 | 2,720 |  |  | 1,346 | Aerial |
| 2001 | 66,646 |  | 3,517 | 0 | 63,129 |  |  | 0.154 | 9,730 | 4,258 |  |  | 2,055 | Aerial |
| 2002 | 53,893 |  | 3,438 | 0 | 50,455 | 3,587 | 57,480 | 0.148 | 7,476 | Missed p | k survey ti | me due to | 1,708 | Aerial |
| 2003 | 49,881 |  | 2,866 | 0 | 47,015 | 3,895 | 53,776 | 0.138 | 6,492 | 1,903 |  |  | 1,160 | Foot |
| 2004 | 52,538 |  | 4,048 | 0 | 48,490 | 9,599 | 62,137 | 0.338 | 16,381 | 6,014 |  |  | 2,991 | Foot |
| 2005 | 59,885 |  | 20,049 | 0 | 39,836 | 27,882 | 87,767 | 0.182 | 7,253 |  |  |  | 1,979 | Foot |
| 2006 | 40,181 |  | 15,776 | 0 | 24,405 | 22,060 | 62,241 | 0.158 | 3,860 |  |  |  | 2,124 | Foot |
| 2007 | 25,069 |  | 10,510 | 0 | 14,559 | 10,885 | 35,954 | 0.039 | 562 |  |  |  | 1,736 | Aerial |
| 2008 | 26,284 |  | 7,932 | 0 | 18,352 | 7,335 | 33,619 | 0.145 | 2,663 |  |  |  | 981 | Heli |
| 2009 | 15,118 |  | 2,146 | 170 | 12,803 | 1,350 | 16,468 | 0.175 | 2,245 |  |  |  | 628 | Aerial |
| 2010 | 18,312 |  | 3,164 | 32 | 15,116 | 1,303 | 19,615 | 0.070 | 1,057 |  |  |  | 1,205 | Heli |
| 2011 | 17,652 |  | 3,141 | 29 | 14,482 | 2,142 | 19,794 | 0.073 | 1,058 |  |  |  | 936 | Foot |
| 2012 | 27,542 |  | 5,210 | 5 | 22,327 | 2,353 | 29,895 | 0.032 | 720 |  |  |  | 587 | Heli |
| 2013 | 20,154 |  | 3,370 | 1 | 16,784 | 1,566 | 21,720 | 0.052 | 878 |  |  |  | 920 | Foot |
| $2014{ }^{\text {a }}$ | 27,701 |  | 3,327 | 8 | 24,367 | 1,622 | 29,323 | 0.007 | 169 | 121 | 514 | 15 | 1,261 | Foot |
| 2015 | 25,855 |  | 4,258 | 0 | 21,597 | 1,500 | 27,355 | 0.021 | 450 | 179 | $53$ | 30 | 796 | Foot |
| 2016 | 13,789 |  | 3,235 | 0 | 10,554 | 1,707 | 15,496 | 0.087 | 921 | 107 | 95 | 25 | 402 | Foot |
| 2017 | 7,938 |  | 603 | 129 | 7,206 | 207 | 8,145 | 0.059 | 428 |  |  |  | 349 | Foot |
| 2018 |  | 8,768 | 165 | 249 | 8,355 | 39 | 8,807 | 0.054 | 453 | 16 |  | 17 | 482 | Foot |
| Averages |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 08-17 | 20,035 |  | 3,639 | 37 | 16,359 | 2,108 | 22,143 | 0 | 1,059 |  |  |  | 807 |  |

Appendix B. 9. General stock proportions and harvest of sockeye salmon in the Alaskan commercial gillnet fishery; District 106 \& 108, 1982-2018.

| Year | D106 |  | 1; GSI ${ }^{\text {D10 }}$ | $\frac{2012 \text { to prese }}{06-41 / 42}$ | D106-30 |  | D108 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Other | Total Stikine | Other | Total Stikine | Other | Total Stikine | Other | Total Stikine |
| 1982 | 0.806 | 0.194 |  |  |  |  |  |  |
| 1983 | 0.884 | 0.116 |  |  |  |  |  |  |
| 1984 | 0.926 | 0.074 |  |  |  |  |  |  |
| 1985 | 0.898 | 0.102 | 0.881 | 0.119 | 0.930 | 0.070 | 0.064 | 0.936 |
| 1986 | 0.982 | 0.018 | 0.970 | 0.030 | 0.998 | 0.002 | 0.223 | 0.777 |
| 1987 | 0.983 | 0.017 | 0.982 | 0.018 | 0.984 | 0.016 | 0.125 | 0.875 |
| 1988 | 0.980 | 0.020 | 0.980 | 0.020 | 0.979 | 0.021 | 0.251 | 0.749 |
| 1989 | 0.968 | 0.032 | 0.956 | 0.044 | 0.984 | 0.016 | 0.171 | 0.829 |
| 1990 | 0.979 | 0.021 | 0.974 | 0.026 | 0.985 | 0.015 | 0.523 | 0.477 |
| 1991 | 0.876 | 0.124 | 0.837 | 0.163 | 0.940 | 0.060 | 0.291 | 0.709 |
| 1992 | 0.828 | 0.172 | 0.823 | 0.177 | 0.841 | 0.159 | 0.214 | 0.786 |
| 1993 | 0.738 | 0.262 | 0.696 | 0.304 | 0.808 | 0.192 | 0.345 | 0.655 |
| 1994 | 0.833 | 0.167 | 0.802 | 0.198 | 0.925 | 0.075 | 0.534 | 0.466 |
| 1995 | 0.876 | 0.124 | 0.851 | 0.149 | 0.921 | 0.079 | 0.339 | 0.661 |
| 1996 | 0.799 | 0.201 | 0.724 | 0.276 | 0.990 | 0.010 | 0.184 | 0.816 |
| 1997 | 0.847 | 0.153 | 0.807 | 0.193 | 0.944 | 0.056 | 0.188 | 0.812 |
| 1998 | 0.905 | 0.095 | 0.887 | 0.113 | 0.947 | 0.053 | 0.223 | 0.777 |
| 1999 | 0.763 | 0.237 | 0.719 | 0.281 | 0.867 | 0.133 | 0.180 | 0.820 |
| 2000 | 0.876 | 0.124 | 0.833 | 0.167 | 0.954 | 0.046 | 0.331 | 0.669 |
| 2001 | 0.857 | 0.143 | 0.829 | 0.171 | 0.901 | 0.099 | 0.874 | 0.126 |
| 2002 | 0.856 | 0.144 | 0.831 | 0.169 | 0.915 | 0.085 | 0.995 | 0.005 |
| 2003 | 0.838 | 0.162 | 0.796 | 0.204 | 0.971 | 0.029 | 0.345 | 0.655 |
| 2004 | 0.721 | 0.279 | 0.641 | 0.359 | 0.948 | 0.053 | 0.131 | 0.869 |
| 2005 | 0.791 | 0.209 | 0.744 | 0.256 | 0.939 | 0.061 | 0.306 | 0.694 |
| 2006 | 0.726 | 0.274 | 0.602 | 0.398 | 0.941 | 0.059 | 0.197 | 0.803 |
| 2007 | 0.591 | 0.409 | 0.493 | 0.507 | 0.943 | 0.057 | 0.312 | 0.688 |
| 2008 | 0.445 | 0.555 | 0.328 | 0.672 | 0.691 | 0.309 | 0.199 | 0.801 |
| 2009 | 0.618 | 0.382 | 0.540 | 0.460 | 0.832 | 0.168 | 0.183 | 0.817 |
| 2010 | 0.877 | 0.123 | 0.792 | 0.208 | 0.970 | 0.030 | 0.233 | 0.767 |
| 2011 | 0.790 | 0.211 | 0.691 | 0.309 | 0.956 | 0.044 | 0.197 | 0.803 |
| 2012 | 0.809 | 0.191 | 0.728 | 0.272 | 0.961 | 0.039 | 0.150 | 0.850 |
| 2013 | 0.754 | 0.246 | 0.655 | 0.345 | 0.939 | 0.061 | 0.254 | 0.746 |
| 2014 | 0.885 | 0.115 | 0.815 | 0.185 | 0.976 | 0.024 | 0.210 | 0.790 |
| 2015 | 0.885 | 0.115 | 0.817 | 0.183 | 0.979 | 0.021 | 0.297 | 0.703 |
| 2016 | 0.797 | 0.203 | 0.718 | 0.282 | 0.966 | 0.034 | 0.150 | 0.850 |
| 2017 | 0.782 | 0.218 | 0.681 | 0.319 | 0.957 | 0.043 | 0.153 | 0.847 |
| 2018 | 0.881 | 0.119 | 0.834 | 0.166 | 0.946 | 0.054 | 0.264 | 0.736 |
| Averages |  |  |  |  |  |  |  |  |
| 83-17 | 0.827 | 0.173 | 0.770 | 0.230 | 0.933 | 0.067 | 0.284 | 0.716 |
| 08-17 | 0.764 | 0.236 | 0.677 | 0.323 | 0.923 | 0.077 | 0.203 | 0.797 |
| 1982 | 156,130 | 37,671 |  |  |  |  |  |  |
| 1983 | 43,192 | 5,650 |  |  |  |  |  |  |
| 1984 | 84,902 | 6,751 |  |  |  |  |  |  |
| 1985 | 237,929 | 27,058 | 151,525 | 20,563 | 86,404 | 6,495 | 68 | 992 |
| 1986 | 143,022 | 2,687 | 82,676 | 2,571 | 60,346 | 116 | 933 | 3,252 |
| 1987 | 134,083 | 2,344 | 77,752 | 1,413 | 56,331 | 931 | 203 | 1,418 |
| 1988 | 90,652 | 1,877 | 56,202 | 1,135 | 34,450 | 742 | 313 | 933 |
| 1989 | 186,562 | 6,172 | 103,099 | 4,787 | 83,463 | 1,385 | 1,725 | 8,358 |
| 1990 | 181,904 | 3,901 | 102,210 | 2,712 | 79,694 | 1,189 | 6,055 | 5,519 |
| 1991 | 126,240 | 17,864 | 74,767 | 14,588 | 51,473 | 3,277 | 5,233 | 12,754 |
| 1992 | 168,184 | 34,971 | 120,641 | 25,967 | 47,543 | 9,004 | 11,300 | 41,417 |
| 1993 | 151,918 | 54,037 | 90,421 | 39,438 | 61,497 | 14,599 | 26,500 | 50,374 |
| 1994 | 175,801 | 35,247 | 126,312 | 31,214 | 49,489 | 4,033 | 51,965 | 45,259 |
| 1995 | 181,619 | 25,679 | 113,848 | 19,865 | 67,771 | 5,814 | 26,015 | 50,741 |
| 1996 | 248,492 | 62,608 | 162,016 | 61,768 | 86,476 | 840 | 28,373 | 125,777 |
| 1997 | 142,766 | 25,752 | 95,719 | 22,956 | 47,047 | 2,796 | 17,533 | 75,506 |
| 1998 | 102,701 | 10,734 | 70,140 | 8,912 | 32,561 | 1,822 | 4,917 | 17,114 |
| 1999 | 80,026 | 24,809 | 52,717 | 20,608 | 27,313 | 4,197 | 6,578 | 30,023 |
| 2000 | 78,931 | 11,145 | 48,202 | 9,661 | 30,729 | 1,484 | 5,245 | 10,588 |
| 2001 | 140,590 | 23,423 | 82,215 | 17,004 | 58,375 | 6,419 | 533 | 77 |
| 2002 | 48,060 | 8,075 | 32,415 | 6,615 | 15,645 | 1,460 | 207 | 1 |
| 2003 | 97,984 | 18,920 | 70,483 | 18,112 | 27,501 | 808 | 14,526 | 27,632 |
| 2004 | 83,793 | 32,467 | 55,055 | 30,874 | 28,738 | 1,593 | 13,511 | 89,882 |
| 2005 | 87,144 | 23,048 | 62,221 | 21,426 | 24,923 | 1,622 | 30,403 | 69,062 |
| 2006 | 66,791 | 25,189 | 35,144 | 23,215 | 31,647 | 1,975 | 12,061 | 49,237 |
| 2007 | 54,625 | 37,855 | 35,691 | 36,720 | 18,934 | 1,136 | 22,027 | 48,554 |
| 2008 | 13,590 | 16,943 | 6,766 | 13,886 | 6,824 | 3,057 | 7,108 | 28,571 |
| 2009 | 69,179 | 42,805 | 44,431 | 37,795 | 24,749 | 5,009 | 6,712 | 29,968 |
| 2010 | 98,563 | 13,887 | 46,831 | 12,274 | 51,732 | 1,613 | 7,631 | 25,106 |
| 2011 | 115,324 | 30,765 | 63,576 | 28,380 | 51,748 | 2,385 | 10,127 | 41,351 |
| 2012 | 36,761 | 8,705 | 21,665 | 8,090 | 15,096 | 615 | 3,301 | 18,693 |
| 2013 | 37,109 | 12,114 | 21,030 | 11,070 | 16,079 | 1,044 | 5,243 | 15,366 |
| 2014 | 51,720 | 6,710 | 26,791 | 6,087 | 24,929 | 623 | 4,162 | 15,643 |
| 2015 | 107,892 | 14,028 | 57,830 | 12,947 | 50,063 | 1,080 | 6,809 | 16,087 |
| 2016 | 84,955 | 21,694 | 52,395 | 20,559 | 32,560 | 1,135 | 10,521 | 59,622 |
| 2017 | 35,216 | 9,789 | 19,372 | 9,072 | 15,844 | 717 | 2,189 | 12,093 |
| 2018 | 22,203 | 3,000 | 12,244 | 2,431 | 9,959 | 569 | 1,514 | 4,217 |
| Averages |  |  |  |  |  |  |  |  |
| 83-17 | 109,565 | 20,649 | 68,550 | 18,251 | 42,363 | 2,758 | 10,607 | 31,120 |
| 08-17 | 65,031 | 17,744 | 36,069 | 16,016 | 28,962 | 1,728 | 6,380 | 26,250 |

Appendix B. 10. Stikine River stock proportions and harvest of sockeye salmon in the
Alaskan commercial gillnet fishery; Districts 106 \& 108, 1982-2018.

| Estimates based on SPA 1982-2011; GSI 2012 to present. |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | D106 |  |  | 106-41/42 |  |  | D106-30 |  |  | D108 |  |
| Year | All Tahltan | Mainstem | Tuya | All Tahltan | Mainstem | Tuya | All Tahltan | Mainstem | Tuya | All Tahltan | Mainstem | Tuya |
| 1982 边 |  |  |  |  |  |  |  |  |  |  |  |  |
| 1983 | 0.103 | 0.013 |  |  |  |  |  |  |  |  |  |  |
| 1984 | 0.029 | 0.044 |  |  |  |  |  |  |  |  |  |  |
| 1985 | 0.091 | 0.011 |  | 0.109 | 0.010 |  | 0.056 | 0.013 |  | 0.292 | 0.644 |  |
| 1986 | 0.014 | 0.004 |  | 0.024 | 0.006 |  | 0.000 | 0.002 |  | 0.094 | 0.683 |  |
| 1987 | 0.010 | 0.007 |  | 0.015 | 0.003 |  | 0.004 | 0.012 |  | 0.438 | 0.437 |  |
| 1988 | 0.020 | 0.001 |  | 0.019 | 0.001 |  | 0.021 | 0.000 |  | 0.178 | 0.571 |  |
| 1989 | 0.006 | 0.026 |  | 0.009 | 0.036 |  | 0.002 | 0.015 |  | 0.034 | 0.795 |  |
| 1990 | 0.005 | 0.016 |  | 0.008 | 0.018 |  | 0.001 | 0.013 |  | 0.111 | 0.366 |  |
| 1991 | 0.100 | 0.024 |  | 0.129 | 0.034 |  | 0.052 | 0.008 |  | 0.395 | 0.314 |  |
| 1992 | 0.070 | 0.102 |  | 0.088 | 0.089 |  | 0.022 | 0.138 |  | 0.258 | 0.528 |  |
| 1993 | 0.098 | 0.164 |  | 0.134 | 0.169 |  | 0.036 | 0.156 |  | 0.256 | 0.399 |  |
| 1994 | 0.142 | 0.025 |  | 0.166 | 0.032 |  | 0.069 | 0.006 |  | 0.362 | 0.103 |  |
| 1995 | 0.081 | 0.043 | 0.001 | 0.099 | 0.048 | 0.001 | 0.047 | 0.032 | 0.000 | 0.455 | 0.200 | 0.006 |
| 1996 | 0.166 | 0.007 | 0.028 | 0.228 | 0.009 | 0.039 | 0.008 | 0.001 | 0.001 | 0.622 | 0.125 | 0.069 |
| 1997 | 0.058 | 0.016 | 0.079 | 0.079 | 0.014 | 0.101 | 0.009 | 0.021 | 0.026 | 0.362 | 0.189 | 0.261 |
| 1998 | 0.015 | 0.000 | 0.080 | 0.017 | 0.000 | 0.096 | 0.010 | 0.000 | 0.043 | 0.189 | 0.343 | 0.244 |
| 1999 | 0.057 | 0.118 | 0.061 | 0.074 | 0.128 | 0.079 | 0.018 | 0.095 | 0.020 | 0.414 | 0.205 | 0.201 |
| 2000 | 0.020 | 0.019 | 0.085 | 0.028 | 0.023 | 0.116 | 0.007 | 0.012 | 0.027 | 0.132 | 0.275 | 0.261 |
| 2001 | 0.039 | 0.025 | 0.079 | 0.032 | 0.028 | 0.112 | 0.049 | 0.021 | 0.029 | 0.000 | 0.121 | 0.005 |
| 2002 | 0.037 | 0.035 | 0.072 | 0.049 | 0.034 | 0.087 | 0.009 | 0.037 | 0.039 | 0.000 | 0.005 | 0.000 |
| 2003 | 0.075 | 0.035 | 0.053 | 0.097 | 0.040 | 0.068 | 0.005 | 0.019 | 0.005 | 0.179 | 0.414 | 0.062 |
| 2004 | 0.241 | 0.018 | 0.020 | 0.315 | 0.018 | 0.026 | 0.031 | 0.017 | 0.005 | 0.613 | 0.239 | 0.018 |
| 2005 | 0.182 | 0.027 | 0.000 | 0.227 | 0.029 | 0.000 | 0.041 | 0.020 | 0.000 | 0.437 | 0.257 | 0.000 |
| 2006 | 0.203 | 0.016 | 0.056 | 0.304 | 0.016 | 0.078 | 0.027 | 0.015 | 0.017 | 0.588 | 0.135 | 0.081 |
| 2007 | 0.322 | 0.005 | 0.082 | 0.403 | 0.005 | 0.099 | 0.028 | 0.007 | 0.021 | 0.474 | 0.067 | 0.147 |
| 2008 | 0.165 | 0.152 | 0.238 | 0.168 | 0.169 | 0.336 | 0.158 | 0.118 | 0.033 | 0.352 | 0.159 | 0.291 |
| 2009 | 0.215 | 0.077 | 0.090 | 0.287 | 0.068 | 0.104 | 0.016 | 0.103 | 0.050 | 0.360 | 0.232 | 0.225 |
| 2010 | 0.047 | 0.026 | 0.051 | 0.084 | 0.036 | 0.088 | 0.005 | 0.015 | 0.011 | 0.356 | 0.234 | 0.178 |
| 2011 | 0.094 | 0.050 | 0.066 | 0.146 | 0.065 | 0.098 | 0.005 | 0.025 | 0.013 | 0.445 | 0.216 | 0.142 |
| 2012 | 0.046 | 0.072 | 0.073 | 0.070 | 0.091 | 0.111 | 0.002 | 0.034 | 0.003 | 0.171 | 0.475 | 0.204 |
| 2013 | 0.068 | 0.118 | 0.060 | 0.099 | 0.156 | 0.089 | 0.008 | 0.047 | 0.007 | 0.180 | 0.440 | 0.125 |
| 2014 | 0.053 | 0.031 | 0.031 | 0.090 | 0.043 | 0.053 | 0.006 | 0.015 | 0.003 | 0.335 | 0.315 | 0.140 |
| 2015 | 0.038 | 0.030 | 0.046 | 0.064 | 0.041 | 0.077 | 0.002 | 0.015 | 0.004 | 0.294 | 0.276 | 0.132 |
| 2016 | 0.119 | 0.044 | 0.040 | 0.172 | 0.052 | 0.058 | 0.006 | 0.027 | 0.001 | 0.583 | 0.145 | 0.123 |
| 2017 | 0.154 | 0.043 | 0.020 | 0.237 | 0.053 | 0.029 | 0.013 | 0.027 | 0.004 | 0.465 | 0.331 | 0.051 |
| 2018 | 0.055 | 0.058 | 0.006 | 0.089 | 0.068 | 0.009 | 0.007 | 0.045 | 0.001 | 0.322 | 0.397 | 0.018 |
| Averages |  |  |  |  |  |  |  |  |  |  |  |  |
| 83-17 | 0.091 | 0.041 | 0.061 | 0.123 | 0.047 | 0.085 | 0.023 | 0.033 | 0.016 | 0.316 | 0.310 | 0.129 |
| 08-17 | 0.100 | 0.064 | 0.072 | 0.142 | 0.077 | 0.104 | 0.022 | 0.043 | 0.013 | 0.354 | 0.282 | 0.161 |
| 1982 |  |  |  |  |  |  |  |  |  |  |  |  |
| 1983 | 5,020 | 631 |  |  |  |  |  |  |  |  |  |  |
| 1984 | 2,673 | 4,078 |  |  |  |  |  |  |  |  |  |  |
| 1985 | 24,045 | 3,013 |  | 18,801 | 1,762 |  | 5,244 | 1,251 |  | 310 | 683 |  |
| 1986 | 2,081 | 606 |  | 2,070 | 501 |  | 11 | 105 |  | 393 | 2,858 |  |
| 1987 | 1,376 | 968 |  | 1,155 | 258 |  | 221 | 710 |  | 710 | 708 |  |
| 1988 | 1,813 | 64 |  | 1,071 | 64 |  | 742 | 0 |  | 222 | 711 |  |
| 1989 | 1,111 | 5,061 |  | 957 | 3,830 |  | 154 | 1,231 |  | 341 | 8,017 |  |
| 1990 | 915 | 2,986 |  | 801 | 1,911 |  | 114 | 1,075 |  | 1,280 | 4,239 |  |
| 1991 | 14,364 | 3,501 |  | 11,541 | 3,048 |  | 2,823 | 453 |  | 7,112 | 5,642 |  |
| 1992 | 14,187 | 20,784 |  | 12,961 | 13,005 |  | 1,226 | 7,778 |  | 13,599 | 27,818 |  |
| 1993 | 20,204 | 33,833 |  | 17,446 | 21,992 |  | 2,758 | 11,841 |  | 19,688 | 30,686 |  |
| 1994 | 29,876 | 5,371 |  | 26,164 | 5,050 |  | 3,712 | 321 |  | 35,222 | 10,037 |  |
| 1995 | 16,715 | 8,839 | 125 | 13,292 | 6,448 | 125 | 3,423 | 2,391 | 0 | 34,950 | 15,330 | 461 |
| 1996 | 51,598 | 2,189 | 8,821 | 50,924 | 2,113 | 8,731 | 674 | 76 | 90 | 95,837 | 19,319 | 10,621 |
| 1997 | 9,764 | 2,756 | 13,232 | 9,327 | 1,692 | 11,937 | 437 | 1,064 | 1,295 | 33,644 | 17,574 | 24,288 |
| 1998 | 1,678 | 36 | 9,020 | 1,326 | 31 | 7,555 | 352 | 5 | 1,465 | 4,170 | 7,561 | 5,383 |
| 1999 | 5,986 | 12,399 | 6,424 | 5,421 | 9,405 | 5,782 | 563 | 2,993 | 641 | 15,156 | 7,497 | 7,371 |
| 2000 | 1,827 | 1,706 | 7,612 | 1,617 | 1,317 | 6,727 | 210 | 389 | 885 | 2,097 | 4,353 | 4,138 |
| 2001 | 6,339 | 4,119 | 12,965 | 3,164 | 2,777 | 11,063 | 3,175 | 1,342 | 1,902 | 0 | 74 | 3 |
| 2002 | 2,055 | 1,962 | 4,058 | 1,896 | 1,325 | 3,394 | 159 | 637 | 664 | 0 | 1 | 0 |
| 2003 | 8,736 | 4,039 | 6,145 | 8,595 | 3,501 | 6,016 | 141 | 538 | 129 | 7,562 | 17,455 | 2,615 |
| 2004 | 28,027 | 2,058 | 2,382 | 27,098 | 1,532 | 2,244 | 929 | 526 | 138 | 63,347 | 24,666 | 1,869 |
| 2005 | 20,080 | 2,968 | 0 | 18,979 | 2,447 | 0 | 1,101 | 521 | 0 | 43,467 | 25,595 | 0 |
| 2006 | 18,640 | 1,427 | 5,122 | 17,729 | 933 | 4,553 | 911 | 494 | 569 | 36,021 | 8,272 | 4,944 |
| 2007 | 29,759 | 484 | 7,612 | 29,196 | 342 | 7,182 | 563 | 142 | 430 | 33,439 | 4,716 | 10,398 |
| 2008 | 5,031 | 4,651 | 7,261 | 3,467 | 3,483 | 6,936 | 1,564 | 1,168 | 325 | 12,547 | 5,659 | 10,365 |
| 2009 | 24,085 | 8,640 | 10,080 | 23,623 | 5,583 | 8,589 | 462 | 3,057 | 1,491 | 13,188 | 8,508 | 8,271 |
| 2010 | 5,231 | 2,882 | 5,775 | 4,959 | 2,105 | 5,210 | 272 | 776 | 565 | 11,645 | 7,651 | 5,811 |
| 2011 | 13,750 | 7,323 | 9,693 | 13,454 | 5,954 | 8,972 | 296 | 1,368 | 721 | 22,916 | 11,127 | 7,307 |
| 2012 | 2,108 | 3,259 | 3,338 | 2,079 | 2,718 | 3,292 | 29 | 541 | 46 | 3,760 | 10,443 | 4,492 |
| 2013 | 3,326 | 5,810 | 2,978 | 3,192 | 5,013 | 2,866 | 134 | 797 | 112 | 3,720 | 9,065 | 2,582 |
| 2014 | 3,103 | 1,792 | 1,815 | 2,954 | 1,399 | 1,734 | 149 | 394 | 80 | 6,631 | 6,231 | 2,781 |
| 2015 | 4,676 | 3,699 | 5,652 | 4,562 | 2,925 | 5,460 | 114 | 773 | 193 | 6,728 | 6,326 | 3,033 |
| 2016 | 12,733 | 4,673 | 4,287 | 12,532 | 3,765 | 4,262 | 202 | 908 | 26 | 40,868 | 10,148 | 8,605 |
| 2017 | 6,943 | 1,953 | 893 | 6,732 | 1,511 | 830 | 211 | 443 | 63 | 6,637 | 4,730 | 727 |
| 2018 | 1,380 | 1,473 | 148 | 1,301 | 994 | 136 | 78 | 479 | 12 | 1,843 | 2,272 | 102 |
| Averages |  |  |  |  |  |  |  |  |  |  |  |  |
| 83-17 | 11,424 | 4,873 | 5,882 | 10,881 | 3,629 | 5,368 | 1,002 | 1,397 | 514 | 17,491 | 9,809 | 5,481 |
| 08-17 | 8,099 | 4,468 | 5,177 | 7,755 | 3,446 | 4,815 | 343 | 1,022 | 362 | 12,864 | 7,989 | 5,397 |

Appendix B. 11. Tahltan sockeye salmon stock proportions and harvest of in the Alaskan commercial gillnet fishery; Districts 106 \& 108, 1994-2018.

| Year | D106 |  |  | D106-41/42 |  |  | D106-30 |  |  | D108 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | All Tahltan | TahltanEnhance | WildTahltan | All Tahltan | TahltanEnhance | WildTahltan | All Tahltan | TahltanEnhance | WildTahltan | All Tahltan | TahltanEnhance | WildTahltan |
| 1994 | 0.142 | 0.033 | 0.108 | 0.166 | 0.040 | 0.127 | 0.069 | 0.015 | 0.055 | 0.362 | 0.116 | 0.246 |
| 1995 | 0.081 | 0.036 | 0.044 | 0.099 | 0.051 | 0.049 | 0.047 | 0.010 | 0.036 | 0.455 | 0.257 | 0.198 |
| 1996 | 0.166 | 0.019 | 0.147 | 0.228 | 0.025 | 0.203 | 0.008 | 0.002 | 0.006 | 0.622 | 0.070 | 0.552 |
| 1997 | 0.058 | 0.021 | 0.037 | 0.079 | 0.023 | 0.056 | 0.009 | 0.015 | -0.006 | 0.362 | 0.102 | 0.260 |
| 1998 | 0.015 | 0.002 | 0.013 | 0.017 | 0.003 | 0.014 | 0.010 | 0.000 | 0.010 | 0.189 | 0.008 | 0.182 |
| 1999 | 0.057 | 0.003 | 0.054 | 0.074 | 0.004 | 0.070 | 0.018 | 0.001 | 0.017 | 0.414 | 0.024 | 0.390 |
| 2000 | 0.020 | 0.003 | 0.017 | 0.028 | 0.004 | 0.024 | 0.007 | 0.000 | 0.007 | 0.132 | 0.032 | 0.100 |
| 2001 | 0.039 | 0.010 | 0.029 | 0.032 | 0.015 | 0.017 | 0.049 | 0.002 | 0.047 | 0.000 | 0.000 | 0.000 |
| 2002 | 0.037 | 0.012 | 0.024 | 0.049 | 0.017 | 0.031 | 0.009 | 0.000 | 0.009 | 0.000 | 0.000 | 0.000 |
| 2003 | 0.075 | 0.036 | 0.039 | 0.097 | 0.047 | 0.050 | 0.005 | 0.001 | 0.004 | 0.179 | 0.087 | 0.092 |
| 2004 | 0.241 | 0.097 | 0.144 | 0.315 | 0.125 | 0.191 | 0.031 | 0.020 | 0.011 | 0.613 | 0.252 | 0.361 |
| 2005 | 0.182 | 0.094 | 0.088 | 0.227 | 0.123 | 0.104 | 0.041 | 0.002 | 0.039 | 0.437 | 0.258 | 0.179 |
| 2006 | 0.203 | 0.113 | 0.090 | 0.304 | 0.174 | 0.130 | 0.027 | 0.007 | 0.020 | 0.588 | 0.331 | 0.257 |
| 2007 | 0.322 | 0.200 | 0.122 | 0.403 | 0.251 | 0.152 | 0.028 | 0.015 | 0.013 | 0.474 | 0.324 | 0.150 |
| 2008 | 0.165 | 0.073 | 0.091 | 0.168 | 0.106 | 0.062 | 0.158 | 0.004 | 0.154 | 0.352 | 0.165 | 0.186 |
| 2009 | 0.215 | 0.063 | 0.152 | 0.287 | 0.084 | 0.203 | 0.016 | 0.004 | 0.012 | 0.360 | 0.097 | 0.262 |
| 2010 | 0.047 | 0.019 | 0.027 | 0.084 | 0.034 | 0.049 | 0.005 | 0.002 | 0.003 | 0.356 | 0.143 | 0.213 |
| 2011 | 0.094 | 0.051 | 0.043 | 0.146 | 0.079 | 0.067 | 0.005 | 0.003 | 0.003 | 0.445 | 0.191 | 0.254 |
| 2012 | 0.046 | 0.019 | 0.028 | 0.070 | 0.028 | 0.042 | 0.002 | 0.002 | 0.000 | 0.171 | 0.062 | 0.109 |
| 2013 | 0.068 | 0.032 | 0.035 | 0.099 | 0.048 | 0.051 | 0.008 | 0.002 | 0.006 | 0.180 | 0.093 | 0.088 |
| 2014 | 0.053 | 0.027 | 0.027 | 0.090 | 0.044 | 0.046 | 0.006 | 0.004 | 0.002 | 0.335 | 0.176 | 0.159 |
| 2015 | 0.038 | 0.016 | 0.023 | 0.064 | 0.026 | 0.038 | 0.002 | 0.001 | 0.001 | 0.294 | 0.130 | 0.164 |
| 2016 | 0.119 | 0.042 | 0.078 | 0.172 | 0.060 | 0.111 | 0.006 | 0.002 | 0.004 | 0.583 | 0.190 | 0.392 |
| 2017 | 0.154 | 0.053 | 0.101 | 0.237 | 0.081 | 0.156 | 0.013 | 0.006 | 0.007 | 0.465 | 0.174 | 0.291 |
| 2018 | 0.055 | 0.028 | 0.026 | 0.089 | 0.048 | 0.041 | 0.007 | 0.001 | 0.006 | 0.322 | 0.154 | 0.167 |
| Averages |  |  |  |  |  |  |  |  |  |  |  |  |
| 94-17 | 0.110 | 0.045 | 0.065 | 0.147 | 0.062 | 0.085 | 0.024 | 0.005 | 0.019 | 0.349 | 0.137 | 0.212 |
| 08-17 | 0.100 | 0.039 | 0.060 | 0.142 | 0.059 | 0.083 | 0.022 | 0.003 | 0.019 | 0.354 | 0.142 | 0.212 |
| 1994 | 29,876 | 7,019 | 22,857 | 26,164 | 6,230 | 19,934 | 3,712 | 789 | 2,923 | 35,222 | 11,286 | 23,936 |
| 1995 | 16,715 | 7,533 | 9,182 | 13,292 | 6,778 | 6,514 | 3,423 | 755 | 2,668 | 34,950 | 19,726 | 15,224 |
| 1996 | 51,598 | 5,772 | 45,826 | 50,924 | 5,584 | 45,340 | 674 | 188 | 486 | 95,837 | 10,796 | 85,041 |
| 1997 | 9,764 | 3,483 | 6,281 | 9,327 | 2,733 | 6,594 | 437 | 750 | -313 | 33,644 | 9,500 | 24,144 |
| 1998 | 1,678 | 201 | 1,477 | 1,326 | 201 | 1,125 | 352 | 0 | 352 | 4,170 | 170 | 4,000 |
| 1999 | 5,986 | 288 | 5,698 | 5,421 | 266 | 5,155 | 563 | 22 | 541 | 15,156 | 877 | 14,279 |
| 2000 | 1,827 | 254 | 1,573 | 1,617 | 254 | 1,363 | 210 | 0 | 210 | 2,097 | 506 | 1,591 |
| 2001 | 6,339 | 1,592 | 4,747 | 3,164 | 1,441 | 1,723 | 3,175 | 151 | 3,024 | 0 | 0 | 0 |
| 2002 | 2,055 | 680 | 1,375 | 1,896 | 680 | 1,216 | 159 | 0 | 159 | 0 | 0 | 0 |
| 2003 | 8,736 | 4,186 | 4,550 | 8,595 | 4,161 | 4,434 | 141 | 25 | 116 | 7,562 | 3,666 | 3,896 |
| 2004 | 28,027 | 11,306 | 16,721 | 27,098 | 10,713 | 16,385 | 929 | 593 | 336 | 63,347 | 26,073 | 37,274 |
| 2005 | 20,080 | 10,356 | 9,724 | 18,979 | 10,292 | 8,687 | 1,101 | 64 | 1,037 | 43,467 | 25,614 | 17,853 |
| 2006 | 18,640 | 10,363 | 8,277 | 17,729 | 10,126 | 7,603 | 911 | 237 | 674 | 36,021 | 20,259 | 15,762 |
| 2007 | 29,759 | 18,506 | 11,253 | 29,196 | 18,198 | 10,998 | 563 | 308 | 255 | 33,439 | 22,867 | 10,572 |
| 2008 | 5,031 | 2,240 | 2,791 | 3,467 | 2,196 | 1,271 | 1,564 | 44 | 1,520 | 12,547 | 5,899 | 6,648 |
| 2009 | 24,085 | 7,053 | 17,032 | 23,623 | 6,938 | 16,685 | 462 | 115 | 346 | 13,188 | 3,560 | 9,628 |
| 2010 | 5,231 | 2,140 | 3,091 | 4,959 | 2,035 | 2,924 | 272 | 105 | 167 | 11,645 | 4,665 | 6,980 |
| 2011 | 13,750 | 7,449 | 6,301 | 13,454 | 7,300 | 6,155 | 296 | 150 | 146 | 22,916 | 9,834 | 13,083 |
| 2012 | 2,108 | 852 | 1,256 | 2,079 | 824 | 1,255 | 29 | 28 | 1 | 3,760 | 1,372 | 2,388 |
| 2013 | 3,326 | 1,583 | 1,743 | 3,192 | 1,551 | 1,640 | 134 | 32 | 102 | 3,720 | 1,909 | 1,811 |
| 2014 | 3,103 | 1,553 | 1,550 | 2,954 | 1,446 | 1,508 | 149 | 107 | 42 | 6,631 | 3,484 | 3,147 |
| 2015 | 4,676 | 1,920 | 2,756 | 4,562 | 1,862 | 2,700 | 114 | 58 | 56 | 6,728 | 2,968 | 3,760 |
| 2016 | 12,733 | 4,452 | 8,282 | 12,532 | 4,401 | 8,131 | 202 | 51 | 151 | 40,868 | 13,355 | 27,514 |
| 2017 | 6,943 | 2,398 | 4,545 | 6,732 | 2,301 | 4,431 | 211 | 97 | 114 | 6,637 | 2,485 | 4,153 |
| 2018 | 1,380 | 716 | 664 | 1,301 | 704 | 598 | 78 | 12 | 66 | 1,843 | 885 | 958 |
| Averages |  |  |  |  |  |  |  |  |  |  |  |  |
| 94-17 | 13,003 | 4,716 | 8,287 | 12,178 | 4,521 | 7,657 | 824 | 195 | 630 | 22,231 | 8,370 | 13,862 |
| 08-17 | 8,099 | 3,164 | 4,935 | 7,755 | 3,085 | 4,670 | 343 | 79 | 265 | 12,864 | 4,953 | 7,911 |

Appendix B. 12. Stikine River sockeye salmon harvest in the U.S. Subsistence fishery, 2004-2018.

|  |  |  |  | Stikine |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | All Tahltan | Mainstem | Tuya | Total | All Tahltan | Mainstem | Tuya | TahltanEnhance | WildTahltan |
| 2004 | 0.664 | 0.311 | 0.026 | 243 | 161 | 75 | 6 | 65 | 96 |
| 2005 | 0.662 | 0.318 | 0.020 | 252 | 167 | 80 | 5 | 77 | 90 |
| 2006 | 0.672 | 0.185 | 0.144 | 390 | 262 | 72 | 56 | 146 | 116 |
| 2007 | 0.541 | 0.294 | 0.165 | 244 | 132 | 72 | 40 | 67 | 65 |
| 2008 | 0.385 | 0.289 | 0.326 | 428 | 165 | 124 | 139 | 80 | 85 |
| 2009 | 0.541 | 0.215 | 0.244 | 723 | 391 | 156 | 176 | 101 | 290 |
| 2010 | 0.417 | 0.294 | 0.289 | 1,653 | 689 | 485 | 479 | 184 | 505 |
| 2011 | 0.467 | 0.328 | 0.205 | 1,741 | 814 | 571 | 356 | 309 | 505 |
| 2012 | 0.246 | 0.492 | 0.262 | 1,302 | 320 | 641 | 341 | 113 | 207 |
| 2013 | 0.346 | 0.489 | 0.166 | 1,655 | 572 | 809 | 274 | 231 | 341 |
| 2014 | 0.523 | 0.223 | 0.255 | 1,527 | 798 | 340 | 389 | 381 | 418 |
| 2015 | 0.435 | 0.286 | 0.279 | 1,844 | 803 | 527 | 515 | 277 | 525 |
| 2016 | 0.611 | 0.245 | 0.144 | 2,126 | 1,298 | 521 | 307 | 383 | 916 |
| 2017 | 0.647 | 0.254 | 0.099 | 1,727 | 1,118 | 439 | 170 | 429 | 689 |
| 2018 | 0.609 | 0.357 | 0.034 | 1,732 | 1,056 | 618 | 58 | 671 | 385 |

Appendix B. 13. Stock proportions of sockeye salmon in the Alaskan District 106 and 108 test fisheries, 1984-2018.

| Year | Alaska | Canada | Stikine |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | All Tahltan | Tuya | Mainstem | Total | TahltanEnhance | WildTahltan |
| Sub-district 106-41 (Sumner Strait) Proportions |  |  |  |  |  |  |  |  |
| 1984 | 0.658 | 0.269 | 0.029 |  | 0.044 | 0.074 |  |  |
| 1985 | 0.480 | 0.401 | 0.109 |  | 0.010 | 0.119 |  |  |
| 1986 | 0.834 | 0.149 | 0.008 |  | 0.009 | 0.017 |  |  |
| 1987 | 0.816 | 0.166 | 0.015 |  | 0.003 | 0.018 |  |  |
| 1988 | 0.868 | 0.098 | 0.034 |  | 0.000 | 0.034 |  |  |
| 1989 | 0.624 | 0.304 | 0.017 |  | 0.056 | 0.072 |  |  |
| 1990 | 0.548 | 0.416 | 0.014 |  | 0.022 | 0.035 |  |  |
| ---- |  |  |  |  |  |  |  |  |
| 1994 | 0.500 | 0.250 | 0.250 |  | 0.000 | 0.250 | 0.083 | 0.167 |
| Sub-district 106-41 (Sumner Strait) harvest |  |  |  |  |  |  |  |  |
| 1984 | 901 | 368 | 40 |  | 61 | 101 |  |  |
| 1985 | 2,085 | 1,741 | 475 |  | 44 | 519 |  |  |
| 1986 | 819 | 146 | 8 |  | 9 | 17 |  |  |
| 1987 | 2,169 | 442 | 39 |  | 9 | 47 |  |  |
| 1988 | 886 | 100 | 35 |  | 0 | 35 |  |  |
| 1989 | 1,274 | 621 | 34 |  | 114 | 148 |  |  |
| 1990 | 1,237 | 939 | 31 |  | 49 | 80 |  |  |
| ---- |  |  |  |  |  |  |  |  |
| 1994 | 6 | 3 | 3 |  | 0 | 3 |  |  |
| Sub-district 106-30 (Clarence Strait) Proportions |  |  |  |  |  |  |  |  |
| 1986 | 0.726 | 0.272 | 0.000 |  | 0.002 | 0.002 |  |  |
| 1987 | 0.844 | 0.140 | 0.004 |  | 0.012 | 0.016 |  |  |
| 1988 | 0.746 | 0.254 | 0.000 |  | 0.000 | 0.000 |  |  |
| 1989 | 0.514 | 0.486 | 0.000 |  | 0.000 | 0.000 |  |  |
| Subdistrict 106-30 (Clarence Strait) harvest |  |  |  |  |  |  |  |  |
| 1986 | 263 | 99 | 0 |  | 1 | 1 |  |  |
| 1987 | 758 | 126 | 3 |  | 11 | 15 |  |  |
| 1988 | 12 | 4 | 0 |  | 0 | 0 |  |  |
| 1989 | 19 | 18 | 0 |  | 0 | 0 |  |  |
| District 106 Proportions |  |  |  |  |  |  |  |  |
| 1984 | 0.658 | 0.269 | 0.029 |  | 0.044 | 0.074 |  |  |
| 1985 | 0.480 | 0.401 | 0.109 |  | 0.010 | 0.119 |  |  |
| 1986 | 0.805 | 0.182 | 0.006 |  | 0.007 | 0.013 |  |  |
| 1987 | 0.823 | 0.160 | 0.012 |  | 0.006 | 0.017 |  |  |
| 1988 | 0.867 | 0.100 | 0.033 |  | 0.000 | 0.033 |  |  |
| 1989 | 0.622 | 0.307 | 0.016 |  | 0.055 | 0.071 |  |  |
| 1990 | 0.548 | 0.416 | 0.014 |  | 0.022 | 0.035 |  |  |
| ---- |  |  |  |  |  |  |  |  |
| 1994 | 0.500 | 0.250 | 0.250 |  | 0.000 | 0.250 | 0.000 | 0.250 |
| District 106 harvest |  |  |  |  |  |  |  |  |
| 1984 | 901 | 368 | 40 |  | 61 | 101 |  |  |
| 1985 | 2,085 | 1,741 | 475 |  | 44 | 519 |  |  |
| 1986 | 1,082 | 245 | 8 |  | 9 | 17 |  |  |
| 1987 | 2,928 | 568 | 42 |  | 20 | 62 |  |  |
| 1988 | 898 | 104 | 35 |  | 0 | 35 |  |  |
| 1989 | 1,293 | 639 | 34 |  | 114 | 148 |  |  |
| 1990 | 1,237 | 939 | 31 |  | 49 | 80 |  |  |
| ---- |  |  |  |  |  |  |  |  |
| 1994 | 6 | 3 | 3 |  | 0 | 3 | 0 | 3 |
| District 108 Proportions |  |  |  |  |  |  |  |  |
| 1985 | 0.064 | 0.000 | 0.292 |  | 0.644 | 0.936 |  |  |
| 1986 | 0.134 | 0.044 | 0.486 |  | 0.336 | 0.822 |  |  |
| 1987 | 0.125 | 0.000 | 0.438 |  | 0.437 | 0.875 |  |  |
| 1988 | 0.205 | 0.049 | 0.132 |  | 0.614 | 0.746 |  |  |
| 1989 | 0.132 | 0.084 | 0.072 |  | 0.712 | 0.784 |  |  |
| 1990 | 0.417 | 0.172 | 0.094 |  | 0.318 | 0.411 |  |  |
| 1991 | 0.128 | 0.128 | 0.494 |  | 0.251 | 0.745 |  |  |
| 1992 | 0.149 | 0.076 | 0.333 |  | 0.442 | 0.774 |  |  |
| 1993 | 0.168 | 0.109 | 0.475 |  | 0.248 | 0.719 |  |  |
| ---- |  |  |  |  |  |  |  |  |
| 1998 | 0.064 | 0.041 | 0.353 | 0.438 | 0.104 | 0.895 | 0.016 | 0.336 |
| 1999 | 0.162 | 0.019 | 0.481 | 0.298 | 0.041 | 0.820 | 0.028 | 0.453 |
| 2000 | 0.110 | 0.116 | 0.302 | 0.321 | 0.150 | 0.774 | 0.062 | 0.240 |
| District 108 harvest |  |  |  |  |  |  |  |  |
| 1985 | 81 | 0 | 367 |  | 810 | 1,177 |  |  |
| 1986 | 76 | 25 | 274 |  | 190 | 464 |  |  |
| 1987 | 36 | 0 | 127 |  | 127 | 254 |  |  |
| 1988 | 93 | 22 | 59 |  | 277 | 336 |  |  |
| 1989 | 137 | 87 | 75 |  | 739 | 814 |  |  |
| 1990 | 361 | 149 | 81 |  | 275 | 356 |  |  |
| 1991 | 114 | 114 | 441 |  | 224 | 665 |  |  |
| 1992 | 194 | 99 | 432 |  | 574 | 1,006 |  |  |
| 1993 | 51 | 33 | 144 |  | 75 | 219 |  |  |
| ---- |  |  |  |  |  |  |  |  |
| 1998 | 224 | 145 | 1,238 | 1,538 | 365 | 3,141 | 57 | 1,181 |
| 1999 | 776 | 89 | 2,309 | 1,430 | 197 | 3,936 | 135 | 2,174 |
| 2000 | 516 | 544 | 1,416 | 1,505 | 705 | 3,626 | 291 | 1,125 |

Appendix B. 14. All harvest in of sockeye salmon in Canadian commercial and assessment fisheries, 1972-2018.

| All Tuya Area fish considered to be Tuya fish. |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Commercial/FN |  |  |  | Test |  |  |  |  | Tahltan Area |  | Tuya Area |  |
| Year | LRCF | URCF | Telegraph Aboriginal | Total Canadian treaty harvest | Drift Net | Set Net | Additional Drifts | Tuya <br> Assesment | Test total | ESSR | Oto samples | ESSR | Oto samples |
| 1972 |  |  | 4,373 | 4,373 |  |  |  |  |  |  |  |  |  |
| 1973 |  |  | 3,670 | 3,670 |  |  |  |  |  |  |  |  |  |
| 1974 |  |  | 3,500 | 3,500 |  |  |  |  |  |  |  |  |  |
| 1975 |  | 270 | 1,982 | 2,252 |  |  |  |  |  |  |  |  |  |
| 1976 |  | 733 | 2,911 | 3,644 |  |  |  |  |  |  |  |  |  |
| 1977 |  | 1,975 | 4,335 | 6,310 |  |  |  |  |  |  |  |  |  |
| 1978 |  | 1,500 | 3,500 | 5,000 |  |  |  |  |  |  |  |  |  |
| 1979a | 10,534 |  | 3,000 | 13,534 |  |  |  |  |  |  |  |  |  |
| 1980 | 18,119 | 700 | 2,100 | 20,919 |  |  |  |  |  |  |  |  |  |
| 1981 | 21,551 | 769 | 4,697 | 27,017 |  |  |  |  |  |  |  |  |  |
| 1982 | 15,397 | 195 | 4,948 | 20,540 |  |  |  |  |  |  |  |  |  |
| 1983 | 15,857 | 614 | 4,649 | 21,120 |  |  |  |  |  |  |  |  |  |
| 1984 |  |  | 5,327 | 5,327 |  |  |  |  |  |  |  |  |  |
| 1985 | 17,093 | 1,084 | 7,287 | 25,464 |  | 1,340 |  |  | 1,340 |  |  |  |  |
| 1986 | 12,411 | 815 | 4,208 | 17,434 | 412 |  |  |  | 412 |  |  |  |  |
| 1987 | 6,138 | 498 | 2,979 | 9,615 | 385 | 1,283 |  |  | 1,668 |  |  |  |  |
| 1988 | 12,766 | 348 | 2,177 | 15,291 | 325 | 922 |  |  | 1,247 |  |  |  |  |
| 1989 | 17,179 | 493 | 2,360 | 20,032 | 364 | 1,243 |  |  | 1,607 |  |  |  |  |
| 1990 | 14,530 | 472 | 3,022 | 18,024 | 447 | 1,493 |  |  | 1,940 |  |  |  |  |
| 1991 | 17,563 | 761 | 4,439 | 22,763 | 503 | 1,872 |  |  | 2,375 |  |  |  |  |
| 1992 | 21,031 | 822 | 4,431 | 26,284 | 393 | 1,971 | 594 |  | 2,958 |  |  |  |  |
| 1993 | 38,464 | 1,692 | 7,041 | 47,197 | 440 | 1,384 | 1,925 |  | 3,749 | 1,752 |  | 0 |  |
| 1994 | 38,462 | 2,466 | 4,167 | 45,095 | 179 | 414 | 840 |  | 1,433 | 6,852 |  | 0 |  |
| 1995 | 45,622 | 2,355 | 5,490 | 53,467 | 297 | 850 | 1,423 |  | 2,570 | 10,740 |  | 0 |  |
| 1996 | 66,262 | 1,101 | 6,918 | 74,281 | 262 | 338 | 712 |  | 1,312 | 14,339 |  | 216 |  |
| 1997 | 56,995 | 2,199 | 6,365 | 65,559 | 245 |  |  |  | 245 |  | 378 | 2,015 |  |
| 1998 | 37,310 | 907 | 5,586 | 43,803 | 190 |  |  |  | 190 |  | 390 | 6,103 |  |
| 1999 | 32,556 | 625 | 4,874 | 38,055 | 410 | 803 | 4,683 |  | 5,896 |  | 429 | 2,822 |  |
| 2000 | 20,472 | 889 | 6,107 | 27,468 | 374 | 1,015 | 989 |  | 2,378 |  | 406 | 1,283 |  |
| 2001 | 19,872 | 487 | 5,241 | 25,600 | 967 | 2,223 | 91 |  | 3,281 |  | 50 | 0 | 410 |
| 2002 | 10,420 | 484 | 6,390 | 17,294 | 744 | 3,540 | 128 |  | 4,412 |  | 400 | 0 | 501 |
| 2003 | 51,735 | 454 | 6,595 | 58,784 | 997 | 2,173 | 186 |  | 3,356 |  | 400 | 7,031 | 0 |
| 2004 | 77,530 | 626 | 6,862 | 85,018 | 420 | 918 | 0 |  | 1,338 |  | 420 | 1,675 | 0 |
| 2005 | 79,952 | 605 | 5,333 | 85,890 | 339 | 1,312 | 0 |  | 1,651 |  | 400 | 0 | 148 |
| 2006 | 95,791 | 520 | 5,094 | 101,405 | 299 | 629 | 0 |  | 928 |  | 400 | 0 | 0 |
| 2007 | 56,913 | 912 | 2,188 | 60,013 | 435 | 673 | 0 |  | 1,108 |  | 200 | 0 | 151 |
| 2008 | 28,636 | 505 | 4,510 | 33,651 | 241 | 870 | 0 | 1,955 | 3,066 |  | 100 |  | 280 |
| 2009 | 39,409 | 2,476 | 5,148 | 47,033 | 250 | 1,092 | 0 | 2,144 | 3,486 |  | 349 |  | 214 |
| 2010 | 42,049 | 1,215 | 7,276 | 50,540 | 304 | 1,450 | 3 | 2,792 | 4,549 |  | 158 |  | 224 |
| 2011 | 47,575 | 972 | 6,893 | 55,440 | 590 | 2,525 | 21 | 2,878 | 6,014 |  | 340 |  | 153 |
| 2012 | 25,939 | 468 | 4,000 | 30,407 | 638 | 1,139 | 19 | 2,306 | 4,102 |  | 224 |  | 189 |
| 2013 | 24,290 | 876 | 7,528 | 32,694 | 294 | 1,008 | 24 | 2,144 | 3,470 |  | 0 |  | 207 |
| 2014 | 30,487 | 548 | 9,951 | 40,986 | 362 | 1,410 | 15 | 883 | 2,670 |  | 400 |  | 0 |
| 2015 | 51,660 | 202 | 8,184 | 60,046 | 468 | 1,397 | 0 |  | 1,865 |  | 0 |  | 0 |
| 2016 | 75,739 | 333 | 10,644 | 86,716 | 460 | 1,287 | 13 |  | 1,760 |  | 173 |  | 0 |
| 2017 | 32,849 | 322 | 8,578 | 41,749 | 276 | 1,632 | 0 |  | 1,908 |  | 0 |  | 0 |
| 2018 | 16,915 | 407 | 5,415 | 22,737 | 205 | 1,107 | 0 |  | 1,312 |  | 207 |  | 0 |
| Averages |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 85-17 | 37,748 | 895 | 5,693 | 44,336 | 416 | 1,340 |  |  | 2,433 |  |  |  |  |
| 08-17 | 39,863 | 792 | 7,271 | 47,926 | 388 | 1,381 |  |  | 3,289 |  |  |  |  |

Appendix B. 15. Sockeye salmon stock proportions and harvest by stock in the Canadian commercial and assessment fishery in the Stikine River, 1979-2018.

| Year | LRCF |  |  | URCF |  |  | Telegraph Aboriginal |  |  | LRTF |  |  | Tuya Assessment |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | All Tahltan | Mainstem | Tuya | All Tahltan | Mainstem | Tuya | All Tahltan | Mainstem | Tuya | All Tahlan | Mainstem | Tuya | All Tahltan | Mainstem | Tuya |
| 1972 |  |  |  |  |  |  | 0.900 | 0.100 |  |  |  |  |  |  |  |
| 1973 |  |  |  |  |  |  | 0.900 | 0.100 |  |  |  |  |  |  |  |
| 1974 |  |  |  |  |  |  | 0.900 | 0.100 |  |  |  |  |  |  |  |
| 1975 |  |  |  | 0.900 | 0.100 |  | 0.900 | 0.100 |  |  |  |  |  |  |  |
| 1976 |  |  |  | 0.900 | 0.100 |  | 0.900 | 0.100 |  |  |  |  |  |  |  |
| 1977 |  |  |  | 0.900 | 0.100 |  | 0.900 | 0.100 |  |  |  |  |  |  |  |
| 1978 |  |  |  | 0.900 | 0.100 |  | 0.900 | 0.100 |  |  |  |  |  |  |  |
| 1979 | 0.433 | 0.567 |  |  |  |  | 0.900 | 0.100 |  |  |  |  |  |  |  |
| 1980 | 0.309 | 0.691 |  | 0.900 | 0.100 |  | 0.900 | 0.100 |  |  |  |  |  |  |  |
| 1981 | 0.476 | 0.524 |  | 0.900 | 0.100 |  | 0.900 | 0.100 |  |  |  |  |  |  |  |
| 1982 | 0.624 | 0.376 |  | 0.900 | 0.100 |  | 0.900 | 0.100 |  |  |  |  |  |  |  |
| 1983 | 0.422 | 0.578 |  | 0.900 | 0.100 |  | 0.900 | 0.100 |  |  |  |  |  |  |  |
| 1984 |  |  |  |  |  |  | 0.900 | 0.100 |  |  |  |  |  |  |  |
| 1985 | 0.623 | 0.377 |  | 0.900 | 0.100 |  | 0.900 | 0.100 |  | 0.372 | 0.628 |  |  |  |  |
| 1986 | 0.489 | 0.511 |  | 0.900 | 0.100 |  | 0.900 | 0.100 |  | 0.352 | 0.648 |  |  |  |  |
| 1987 | 0.225 | 0.775 |  | 0.900 | 0.100 |  | 0.900 | 0.100 |  | 0.273 | 0.727 |  |  |  |  |
| 1988 | 0.161 | 0.839 |  | 0.900 | 0.100 |  | 0.900 | 0.100 |  | 0.282 | 0.718 |  |  |  |  |
| 1989 | 0.164 | 0.836 |  | 0.900 | 0.100 |  | 0.900 | 0.100 |  | 0.258 | 0.742 |  |  |  |  |
| 1990 | 0.346 | 0.654 |  | 0.900 | 0.100 |  | 0.900 | 0.100 |  | 0.454 | 0.546 |  |  |  |  |
| 1991 | 0.634 | 0.366 |  | 0.900 | 0.100 |  | 0.900 | 0.100 |  | 0.608 | 0.392 |  |  |  |  |
| 1992 | 0.482 | 0.518 |  | 0.900 | 0.100 |  | 0.900 | 0.100 |  | 0.646 | 0.354 |  |  |  |  |
| 1993 | 0.537 | 0.463 |  | 0.900 | 0.100 |  | 0.900 | 0.100 |  | 0.583 | 0.417 |  |  |  |  |
| 1994 | 0.616 | 0.384 |  | 0.900 | 0.100 |  | 0.900 | 0.100 |  | 0.857 | 0.143 |  |  |  |  |
| 1995 | 0.676 | 0.304 | 0.020 | 0.900 | 0.075 | 0.025 | 0.900 | 0.075 | 0.025 | 0.803 | 0.189 | 0.008 |  |  |  |
| 1996 | 0.537 | 0.350 | 0.113 | 0.858 | 0.005 | 0.136 | 0.839 | 0.021 | 0.141 | 0.667 | 0.245 | 0.088 |  |  |  |
| 1997 | 0.356 | 0.372 | 0.272 | 0.524 | 0.097 | 0.379 | 0.521 | 0.101 | 0.378 | 0.396 | 0.384 | 0.220 |  |  |  |
| 1998 | 0.335 | 0.313 | 0.352 | 0.400 | 0.030 | 0.570 | 0.421 | 0.023 | 0.555 | 0.368 | 0.363 | 0.268 |  |  |  |
| 1999 | 0.576 | 0.183 | 0.241 | 0.574 | 0.096 | 0.330 | 0.623 | 0.085 | 0.292 | 0.514 | 0.221 | 0.265 |  |  |  |
| 2000 | 0.252 | 0.350 | 0.397 | 0.252 | 0.094 | 0.654 | 0.284 | 0.063 | 0.653 | 0.254 | 0.333 | 0.413 |  |  |  |
| 2001 | 0.175 | 0.599 | 0.226 | 0.437 | 0.092 | 0.470 | 0.342 | 0.097 | 0.561 | 0.208 | 0.510 | 0.282 |  |  |  |
| 2002 | 0.320 | 0.552 | 0.128 | 0.376 | 0.128 | 0.496 | 0.422 | 0.084 | 0.494 | 0.391 | 0.451 | 0.157 |  |  |  |
| 2003 | 0.427 | 0.412 | 0.161 | 0.696 | 0.084 | 0.220 | 0.605 | 0.157 | 0.238 | 0.448 | 0.424 | 0.128 |  |  |  |
| 2004 | 0.707 | 0.276 | 0.016 | 0.861 | 0.072 | 0.067 | 0.909 | 0.002 | 0.089 | 0.512 | 0.455 | 0.033 |  |  |  |
| 2005 | 0.761 | 0.221 | 0.018 | 0.962 | 0.017 | 0.021 | 0.956 | 0.031 | 0.013 | 0.542 | 0.453 | 0.005 |  |  |  |
| 2006 | 0.747 | 0.075 | 0.178 | 0.852 | 0.015 | 0.133 | 0.780 | 0.089 | 0.131 | 0.355 | 0.631 | 0.014 |  |  |  |
| 2007 | 0.635 | 0.173 | 0.191 | 0.658 | 0.299 | 0.043 | 0.643 | 0.316 | 0.042 | 0.262 | 0.662 | 0.076 |  |  |  |
| 2008 | 0.470 | 0.141 | 0.389 | 0.719 | 0.095 | 0.186 | 0.729 | 0.088 | 0.183 | 0.385 | 0.348 | 0.266 | 0.278 | 0.233 | 0.489 |
| 2009 | 0.601 | 0.149 | 0.250 | 0.668 | 0.029 | 0.303 | 0.686 | 0.033 | 0.281 | 0.323 | 0.490 | 0.187 | 0.220 | 0.067 | 0.714 |
| 2010 | 0.456 | 0.188 | 0.356 | 0.565 | 0.007 | 0.428 | 0.570 | 0.017 | 0.413 | 0.258 | 0.634 | 0.108 | 0.427 | 0.061 | 0.512 |
| 2011 | 0.495 | 0.293 | 0.212 | 0.678 | 0.034 | 0.288 | 0.670 | 0.046 | 0.284 | 0.268 | 0.578 | 0.154 | 0.343 | 0.089 | 0.568 |
| 2012 | 0.274 | 0.476 | 0.250 | 0.460 | 0.011 | 0.529 | 0.475 | 0.033 | 0.491 | 0.242 | 0.443 | 0.315 | 0.091 | 0.026 | 0.883 |
| 2013 | 0.347 | 0.460 | 0.193 | 0.578 | 0.143 | 0.279 | 0.505 | 0.205 | 0.290 | 0.236 | 0.748 | 0.016 | 0.136 | 0.142 | 0.722 |
| 2014 | 0.547 | 0.210 | 0.243 | 0.564 | 0.057 | 0.379 | 0.584 | 0.064 | 0.353 | 0.450 | 0.306 | 0.243 | 0.490 | 0.030 | 0.480 |
| 2015 | 0.444 | 0.266 | 0.290 | 0.587 | 0.035 | 0.378 | 0.584 | 0.020 | 0.396 | 0.516 | 0.172 | 0.312 |  |  |  |
| 2016 | 0.687 | 0.147 | 0.166 | 0.812 | 0.002 | 0.186 | 0.804 | 0.002 | 0.194 | 0.539 | 0.279 | 0.182 |  |  |  |
| 2017 | 0.695 | 0.193 | 0.113 | 0.633 | 0.079 | 0.288 | 0.596 | 0.062 | 0.342 | 0.665 | 0.281 | 0.054 |  |  |  |
| 2018 | 0.650 | 0.314 | 0.035 | 0.963 | 0.020 | 0.017 | 0.965 | 0.020 | 0.015 | 0.517 | 0.473 | 0.010 |  |  |  |
| Averages |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 79-16 | 0.475 | 0.399 | 0.208 | 0.736 | 0.081 | 0.295 | 0.740 | 0.085 | 0.297 |  |  |  |  |  |  |
| 07-16 | 0.501 | 0.252 | 0.246 | 0.626 | 0.049 | 0.324 | 0.620 | 0.057 | 0.323 | 0.388 | 0.428 | 0.184 |  |  |  |
| 1972 |  |  |  |  |  |  | 3,936 | 437 |  |  |  |  |  |  |  |
| 1973 |  |  |  |  |  |  | 3,303 | 367 |  |  |  |  |  |  |  |
| 1974 |  |  |  |  |  |  | 3,150 | 350 |  |  |  |  |  |  |  |
| 1975 |  |  |  | 243 | 27 |  | 1,784 | 198 |  |  |  |  |  |  |  |
| 1976 |  |  |  | 660 | 73 |  | 2,620 | 291 |  |  |  |  |  |  |  |
| 1977 |  |  |  | 1,778 | 198 |  | 3,902 | 434 |  |  |  |  |  |  |  |
| 1978 |  |  |  | 1,350 | 150 |  | 3,150 | 350 |  |  |  |  |  |  |  |
| 1979 | 4,561 | 5.973 |  |  |  |  | 2,700 | 300 |  |  |  |  |  |  |  |
| 1980 | 5,599 | 12,520 |  | 630 | 70 |  | 1,890 | 210 |  |  |  |  |  |  |  |
| 1981 | 10,258 | 11,293 |  | 692 | 77 |  | 4,227 | 470 |  |  |  |  |  |  |  |
| 1982 | 9,608 | 5,789 |  | 176 | 20 |  | 4,453 | 495 |  |  |  |  |  |  |  |
| 1983 | 6,692 | 9,165 |  | 553 | 61 |  | 4,184 | 465 |  |  |  |  |  |  |  |
| 1984 |  |  |  |  |  |  | 4,794 | 533 |  |  |  |  |  |  |  |
| 1985 | 10,649 | 6,444 |  | 976 | 108 |  | 6.558 | 729 |  | 499 | 841 |  |  |  |  |
| 1986 | 6.069 | 6,342 |  | 734 | 82 |  | 3,787 | 421 |  | 145 | 267 |  |  |  |  |
| 1987 | 1,380 | 4,758 |  | 448 | 50 |  | 2,681 | 298 |  | 455 | 1,213 |  |  |  |  |
| 1988 | 2,062 | 10,704 |  | 313 | 35 |  | 1,959 | 218 |  | 352 | 895 |  |  |  |  |
| 1989 | 2,813 | 14,366 |  | 444 | 49 |  | 2,124 | 236 |  | 415 | 1,192 |  |  |  |  |
| 1990 | 5,029 | 9,501 |  | 425 | 47 |  | 2,720 | 302 |  | 881 | 1,059 |  |  |  |  |
| 1991 | 11,136 | 6.427 |  | 685 | 76 |  | 3,995 | 444 |  | 1,443 | 932 |  |  |  |  |
| 1992 | 10,134 | 10,897 |  | 740 | 82 |  | 3,988 | 443 |  | 1,912 | 1,046 |  |  |  |  |
| 1993 | 20,662 | 17,802 |  | 1,523 | 169 |  | 6,337 | 704 |  | 2,184 | 1,565 |  |  |  |  |
| 1994 | 23,678 | 14,784 |  | 2,219 | 247 |  | 3,750 | 417 |  | 1,228 | 205 |  |  |  |  |
| 1995 | 30,848 | 13,881 | 893 | 2,120 | 176 | 60 | 4,941 | 410 | 139 | 2,064 | 486 | 20 |  |  |  |
| 1996 | 35,584 | 23,213 | 7,465 | 945 | 6 | 150 | 5,802 | 144 | 972 | 875 | 321 | 116 |  |  |  |
| 1997 | 20,269 | 21,213 | 15,513 | 1,152 | 213 | 834 | 3,318 | 644 | 2,403 | 97 | 94 | 54 |  |  |  |
| 1998 | 12,498 | 11,675 | 13,137 | 363 | 27 | 517 | 2,352 | 131 | 3,103 | 70 | 69 | 51 |  |  |  |
| 1999 | 18,742 | 5.952 | 7,862 | 359 | 60 | 206 | 3,038 | 413 | 1,423 | 3,031 | 1,301 | 1,564 |  |  |  |
| 2000 | 5.165 | 7,171 | ${ }^{8,136}$ | 224 | 84 | 581 | 1,733 | 385 | 3,989 | 605 | 791 | 982 |  |  |  |
| 2001 | 3,482 | 11,907 | 4,483 | 213 | 45 | 229 | 1,795 | 507 | 2,939 | 684 | 1,673 | 924 |  |  |  |
| 2002 | 3,335 | 5,750 | 1,335 | 182 | 62 | 240 | 2,697 | 538 | 3,155 | 1,726 | 1,992 | 694 |  |  |  |
| 2003 | 22,067 | 21,333 | 8,335 | 316 | 38 | 100 | 3,987 | 1,037 | 1,571 | 1,505 | 1,423 | 428 |  |  |  |
| 2004 | 54,841 | 21,415 | 1,276 | 539 | 45 | 42 | 6,240 | 14 | 608 | 686 | 608 | 44 |  |  |  |
| 2005 | 60,881 | 17,634 | 1,437 | 582 | 10 | 13 | 5,099 | 163 | 71 | 895 | 748 | 8 |  |  |  |
| 2006 | 71.573 | 7,139 | 17,079 | 443 | 8 | 69 | 3,974 | 452 | 668 | 329 | 586 | 13 |  |  |  |
| 2007 | 36,167 | 9,855 | 10,891 | 600 | 273 | 39 | 1,406 | 691 | 91 | 290 | 734 | 84 |  |  |  |
| 2008 | 13,455 | 4,028 | 11,153 | 363 | 48 | 94 | 3,287 | 398 | 825 | 428 | 387 | 296 | 543 | 455 | 956 |
| 2009 | 23,666 | 5,891 | 9,852 | 1,654 | 73 | 749 | 3,530 | 169 | 1,449 | 434 | 657 | 251 | 471 | 144 | 1,530 |
| 2010 | 19,185 | 7,899 | 14,965 | 687 | 9 | 520 | 4,145 | 127 | 3,004 | 453 | 1,114 | 190 | 1,192 | 171 | 1,429 |
| 2011 | 23,530 | 13,939 | 10,106 | 659 | 33 | 280 | 4,620 | 316 | 1,957 | 841 | 1,813 | 482 | 988 | 257 | 1,634 |
| 2012 | 7,102 | 12,352 | 6.485 | 215 | 5 | 248 | 1,901 | 133 | 1.966 | 434 | 796 | 566 | 210 | 60 | 2,036 |
| 2013 | 8,430 | 11,182 | 4,679 | 506 | 126 | 244 | 3,804 | 1,540 | 2,183 | 313 | 992 | 21 | 292 | 305 | 1,547 |
| 2014 | 16,678 | 6.391 | 7,418 | 309 | 31 | 207 | 5,809 | 634 | 3,508 | 805 | 547 | 435 | 433 | 26 | 424 |
| 2015 | 22,924 | 13,736 | 15,000 | 119 | 7 | 76 | 4,780 | 165 | 3,239 | 962 | 321 | 582 |  |  |  |
| 2016 | 52,021 | 11,151 | 12,568 | 270 | 1 | 62 | 8.561 | 21 | 2,062 | 949 | 492 | 320 |  |  |  |
| 2017 | 22,823 | 6,325 | 3,701 | 204 | 25 | 93 | 5.111 | 534 | 2,933 | 1,270 | 536 | 103 |  |  |  |
| 2018 | 10,999 | 5.318 | 598 | 392 | 8 | 7 | 5,227 | 108 | 80 | 678 | 621 | 13 |  |  |  |
| Averages |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $79-17$ | 18,831 | 10,995 | 8,425 | 637 | 70 | 246 | 3,899 | 417 |  |  |  |  |  |  |  |
| 08-17 | 20,981 | 9,289 | 9,593 | 499 | 36 | 257 | 4,555 | 404 | 2,313 | 689 | 766 | 324 |  |  |  |

Appendix B. 16. Tahltan sockeye salmon stock proportions and harvest by stock in the Canadian commercial and assessment fishery in the Stikine River, 1979-2018.


Appendix B. 17. Tahltan Lake weir data with enhanced and wild Tahltan fish, 19792018.

| Year | Weir count |  |  | Actual escapement |  |  | Broodstock taken |  |  | Sockeye otolith samples |  |  | Wild spawners |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total | TahltanEnhance | WildTahltan | Total | TahltanEnhance | WildTahltan | Total | FahltanEnhance | WildTahltan | Total | TahltanEnhance | WildTahltan | Total | TahltanEnhan | ildTahltan |
| 1979 | 10,211 |  |  | 10,211 |  |  |  |  |  |  |  |  |  |  |  |
| 1980 | 11,018 |  |  | 11,018 |  |  |  |  |  |  |  |  |  |  |  |
| 1981 | 50,790 |  |  | 50,790 |  |  |  |  |  |  |  |  |  |  |  |
| 1982 | 28,257 |  |  | 28,257 |  |  |  |  |  |  |  |  |  |  |  |
| 1983 | 21,256 |  |  | 21,256 |  |  |  |  |  |  |  |  |  |  |  |
| 1984 | 32,777 |  |  | 32,777 |  |  |  |  |  |  |  |  |  |  |  |
| 1985 | 67,326 |  |  | 67,326 |  |  |  |  |  |  |  |  |  |  |  |
| 1986 | 20,280 |  |  | 20,280 |  |  |  |  |  |  |  |  |  |  |  |
| 1987 | 6,958 |  |  | 6,958 |  |  |  |  |  |  |  |  |  |  |  |
| 1988 | 2,536 |  |  | 2,536 |  |  |  |  |  |  |  |  |  |  |  |
| 1989 | 8,316 |  |  | 8.316 |  |  | 2,210 |  |  |  |  |  |  |  |  |
| 1990 | 14,927 |  |  | 14,927 |  |  | 3,302 |  |  |  |  |  |  |  |  |
| 1991 | 50,135 |  |  | 50,135 |  |  | 3,552 |  |  |  |  |  |  |  |  |
| 1992 | 59,907 |  |  | 59,907 |  |  | 3,694 |  |  |  |  |  |  |  |  |
| 1993 | 53,362 | 1,167 | 52,195 | 51,610 | 1,129 | 50,481 | 4,506 | 99 | 4,407 |  |  |  | 47,104 | 1,030 | 46,074 |
| 1994 | 46,363 | 7,919 | 38,444 | 39,511 | 6,749 | 32,762 | 3,378 | 577 | 2,801 |  |  |  | 36,133 | 6,172 | 29,961 |
| 1995 | 42,317 | 15,997 | 26,320 | 31,577 | 11,937 | 19,640 | 4,902 | 1,853 | 3,049 |  |  |  | 26,675 | 10,084 | 16,591 |
| 1996 | 52,500 | 6,121 | 46,379 | 38,161 | 4,449 | 33,712 | 4,402 | 513 | 3,889 |  |  |  | 33,759 | 3,936 | 29,823 |
| 1997 | 12,483 | 2.521 | 9,962 | 12,105 | 2,445 | 9,660 | 2,294 | 463 | 1,831 | 378 | 76 | 302 | 9,811 | 1,982 | 7,829 |
| 1998 | 12,658 | 717 | 11,941 | 12,268 | 691 | 11,577 | 3,099 | 75 | 3,024 | 390 | 26 | 364 | 9,169 | 616 | 8.553 |
| 1999 | 10,748 | 719 | 10,029 | 10,319 | 690 | 9,629 | 2,870 | 193 | 2,677 | 429 | 29 | 400 | 7,449 | 497 | 6,952 |
| 2000 | 6,076 | 1,230 | 4,846 | 5,670 | 1,148 | 4,522 | 1,717 | 347 | 1,370 | 406 | 82 | 324 | 3,953 | 801 | 3,152 |
| 2001 | 14,811 | 5,865 | 8.946 | 14,761 | 5,845 | 8.916 | 2,386 | 945 | 1,441 | 50 | 20 | 30 | 12,375 | 4,900 | 7,475 |
| 2002 | 17,740 | 5,212 | 12,528 | 17,340 | 5,097 | 12,243 | 3,051 | 1,298 | 1,753 | 400 | 115 | 285 | 14,289 | 3,799 | 10,490 |
| 2003 | 53,933 | 23,595 | 30,338 | 53,533 | 23,420 | 30,113 | 3,946 | 1,726 | 2,220 | 400 | 175 | 225 | 49,587 | 21,694 | 27,893 |
| 2004 | 63,372 | 31,439 | 31,933 | 62,952 | 31,244 | 31,708 | 4,243 | 1,250 | 2,993 | 420 | 195 | 225 | 58,709 | 29,994 | 28,715 |
| 2005 | 43,446 | 17.928 | 25,518 | 43,046 | 17,770 | 25,276 | 3,424 | 1,350 | 2,074 | 400 | 158 | 242 | 39,622 | 16,420 | 23,202 |
| 2006 | 53,855 | 25,966 | 27,889 | 53,455 | 25,772 | 27,683 | 3,403 | 1,646 | 1,757 | 400 | 194 | 206 | 50,052 | 24,126 | 25,926 |
| 2007 | 21,074 | 8,966 | 12,108 | 20,874 | 8,881 | 11,993 | 2,839 | 1,208 | 1,631 | 200 | 85 | 115 | 18,035 | 7,673 | 10,362 |
| 2008 | 10,516 | 5,344 | 5,172 | 10,416 | 5,295 | 5,121 | 2,364 | 1,152 | 1,212 | 100 | 49 | 51 | 8,052 | 4,143 | 3,909 |
| 2009 | 30,673 | 5,030 | 25,643 | 30,324 | 4,971 | 25,353 | 3,011 | 930 | 2,081 | 349 | 59 | 290 | 27,313 | 4,041 | 23,272 |
| 2010 | 22,860 | 9,670 | 13,190 | 22,702 | 9,596 | 13,106 | 4,484 | 1,807 | 2,677 | 158 | 74 | 84 | 18,218 | 7,789 | 10,429 |
| 2011 | 34,588 | 12,123 | 22,465 | 34,248 | 12,017 | 22,231 | 4,559 | 1,769 | 2,790 | 340 | 106 | 234 | 29,689 | 10,248 | 19,441 |
| 2012 | 13,687 | 5.851 | 7,836 | 13,463 | 5,764 | 7,699 | 3,949 | 1,836 | 2,113 | 224 | 87 | 137 | 9,514 | 3,928 | 5,586 |
| 2013 | 15,828 | 8,026 | 7,802 | 15,828 | 8,026 | 7,802 | 3,196 | 1,643 | 1,553 | 0 | 0 | 0 | 12,632 | 6,383 | 6,249 |
| 2014 | 40,145 | 19,189 | 20,956 | 39745 | 18,998 | 20,747 | 2,881 | 1,622 | 1,259 | 400 | 191 | 209 | 36,864 | 17,376 | 19,488 |
| 2015 | 33,159 | 16,204 | 16.955 | 33,159 | 16,204 | 16,955 | 3,871 | 1,892 | 1,979 | 0 | 0 | 0 | 29,288 | 14,312 | 14,976 |
| 2016 | 38,631 | 14.969 | 23,665 | 38,458 | 14.917 | 23,544 | 4,315 | 1,672 | 2,643 | 173 | 52 | 121 | 34,143 | 13,245 | 20,901 |
| 2017 | 19,241 | 10,044 | 9,197 | 19,241 | 10,044 | 9,197 | 2,909 | 1,518 | 1,391 | 0 | 0 | 0 | 16,332 | 8,525 | 7,807 |
| 2018 | 9,854 | 8,273 | 8,284 | 16,350 | 8,146 | 8,204 | 1,878 | 936 | 942 | 207 | 127 | 80 | 14,472 | 7,210 | 7,262 |
| Averages $08-17$ | 25.933 | 10.645 | 15.288 | 25.758 | 10.583 | 15.176 | 3.554 | 1.584 | 1.970 | 174 | 62 | 113 | 22,205 | 8.999 | 13.206 |

Appendix B. 18. Sockeye salmon harvest by stock in the Stikine River under Canadian ESSR licenses, 1992-2018.

| Year | Tahltan Area ESSR License |  |  | Tuya Area ESSR |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | All Tahltan | TahltanEnhance | WildTahltan | Tuya | Total | otolith samples |
| 1993 | 1,752 | 38 | 1,714 |  | 0 |  |
| 1994 | 6,852 | 1,170 | 5,682 |  | 0 |  |
| 1995 | 10,740 | 4,060 | 6,680 |  | 0 |  |
| 1996 | 14,339 | 1,672 | 12,667 | 216 | 14,555 |  |
| 1997 |  |  |  | 2,015 | 2,015 |  |
| 1998 |  |  |  | 6,103 | 6,103 |  |
| 1999 |  |  |  | 2,822 | 2,822 |  |
| 2000 |  |  |  | 1,283 | 1,283 |  |
| 2001 |  |  |  |  | 0 | 410 |
| 2002 |  |  |  |  | 0 | 501 |
| 2003 |  |  |  | 7,031 | 7,031 |  |
| 2004 |  |  |  | 1,675 | 1,675 |  |
| 2005 |  |  |  |  | 0 | 148 |
| 2006 |  |  |  |  | 0 | 0 |
| 2007 |  |  |  |  | 0 | 151 |
| 2008 |  |  |  |  |  | 280 |
| 2009 |  |  |  |  |  | 214 |
| 2010 |  |  |  |  |  | 224 |
| 2011 |  |  |  |  |  | 153 |
| 2012 |  |  |  |  |  | 189 |
| 2013 |  |  |  |  |  | 207 |
| 2014 |  |  |  |  |  | 0 |
| 2015 |  |  |  |  |  |  |
| 2016 |  |  |  |  |  |  |
| 2017 |  |  |  |  |  |  |

Appendix B. 19. Estimated proportion of inriver run comprised of Tahltan, Tuya, and mainstem sockeye salmon, 1979-2018.

| In 1979-1988, there were US estimates and |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: |
| and the All tahltan estimate was oftened averaged. The estimates |  |  |  |  |
| and |  |  |  |  |
| Year | All Tahltan | Mainstem | Tuya | Type |
| 1979 | 0.433 | 0.567 |  |  |
| 1980 | 0.305 | 0.695 |  |  |
| 1981 | 0.475 | 0.525 |  |  |
| 1982 | 0.618 | 0.382 |  |  |
| 1983 | 0.456 | 0.544 |  |  |
| 1984 | 0.493 | 0.507 |  |  |
| 1985 | 0.466 | 0.534 |  |  |
| 1986 | 0.449 | 0.551 |  |  |
| 1987 | 0.304 | 0.696 |  |  |
| 1988 | 0.172 | 0.828 |  |  |
| 1989 | 0.188 | 0.812 |  |  |
| 1990 | 0.417 | 0.583 |  |  |
| 1991 | 0.561 | 0.439 |  |  |
| 1992 | 0.496 | 0.504 |  |  |
| 1993 | 0.477 | 0.523 |  |  |
| 1994 | 0.606 | 0.394 |  | LRCF |
| 1995 | 0.578 | 0.406 | 0.016 | LRCF |
| 1996 | 0.519 | 0.377 | 0.104 | LRCF |
| 1997 | 0.297 | 0.474 | 0.229 | LRCF |
| 1998 | 0.309 | 0.344 | 0.348 | LRCF |
| 1999 | 0.545 | 0.209 | 0.245 | LRCF |
| 2000 | 0.260 | 0.349 | 0.391 | LRCF |
| 2001 | 0.202 | 0.530 | 0.268 | test |
| 2002 | 0.360 | 0.498 | 0.141 | test |
| 2003 | 0.421 | 0.421 | 0.158 | test |
| 2004 | 0.664 | 0.311 | 0.026 | LRCF |
| 2005 | 0.662 | 0.318 | 0.020 | LRCF |
| 2006 | 0.672 | 0.185 | 0.144 | LRCF |
| 2007 | 0.541 | 0.294 | 0.165 | LRCF |
| 2008 | 0.385 | 0.289 | 0.326 | LRCF |
| 2009 | 0.541 | 0.215 | 0.244 | average |
| 2010 | 0.417 | 0.294 | 0.289 | average |
| 2011 | 0.467 | 0.328 | 0.205 | LRCF |
| 2012 | 0.246 | 0.492 | 0.262 | average |
| 2013 | 0.346 | 0.489 | 0.166 | average |
| 2014 | 0.523 | 0.223 | 0.255 | average |
| 2015 | 0.435 | 0.286 | 0.279 | LRCF |
| 2016 | 0.611 | 0.245 | 0.144 | LRCF |
| 2017 | 0.647 | 0.254 | 0.099 | LRCF |
| 2018 | 0.609 | 0.357 | 0.034 | LRCF |
| Averages |  |  |  |  |
| $79-17$ | 0.450 | 0.434 |  |  |
| $08-17$ | 0.462 | 0.311 | 0.227 |  |
|  |  |  |  |  |
|  |  |  |  |  |

Appendix B. 20. Aerial survey counts of Mainstem sockeye salmon stocks in the Stikine River drainage, 1984-2018.

| The index represents the combined counts from eight spawning areas. |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Chutine River | Scud River | Porcupine Slough | Christina Creek | Craig <br> River | Bronson Slough | Verrett River | Verrett Slough | Escapement Index |
| 1984 | 526 | 769 | 69 | 130 | 102 |  | 640 |  | 2,236 |
| 1985 | 253 | 282 | 69 | 67 | 27 |  | 383 |  | 1,081 |
| 1986 | 139 | 151 | 6 | 0 | 0 |  | 270 |  | 566 |
| 1987 | 6 | 490 | 62 | 6 | 30 |  | 103 |  | 697 |
| 1988 | 14 | 219 | 22 | 7 | 0 |  | 114 |  | 376 |
| 1989 | 29 | 269 | 133 | 10 | 60 | 60 | 180 | 68 | 809 |
| 1990 | 24 | 301 | 31 | 4 | 0 | 0 | 301 | 82 | 743 |
| 1991 | 0 | 100 | 61 |  | 7 | 32 | 179 | 8 | 387 |
| 1992 | 164 | 1,242 | 90 | 50 | 17 | 138 | 163 | 22 | 1,886 |
| 1993 | 57 | 321 | 141 | 28 | 2 | 79 | 107 | 142 | 877 |
| 1994 | 267 | 292 | 66 |  |  | 62 | 147 | 114 | 948 |
| 1995 | 13 | 260 | 11 |  |  | 72 | 47 | 31 | 434 |
| 1996 | 134 | 351 | 149 |  |  | 27 | 54 | 338 | 1,053 |
| 1997 | 204 | 271 | 25 |  |  | 12 | 116 | 32 | 660 |
| 1998 | 230 | 246 | 89 |  |  | 9 | 183 | 135 | 892 |
| 1999 | 56 | 301 | 64 |  |  | 54 | 98 | 78 | 651 |
| 2000 | 47 | 86 | 86 |  |  | 32 | 0 | 90 | 341 |
| 2001 | 601 | 2,037 | 268 |  |  | 163 | 217 | 232 | 3,518 |
| 2002 | 239 | 216 | 95 |  |  | 13 | 353 | 0 | 916 |
| 2003 | 240 | 71 | 239 |  |  | 0 | 54 | 0 | 604 |
| 2004 | 245 | 262 | 56 |  |  | 0 | 85 | 0 | 648 |
| 2005 | 66 | 124 | 111 |  |  | 23 | 158 | 76 | 558 |
| 2006 | 276 | 288 | 59 |  |  | 0 | 140 | 180 | 943 |
| 2007 | 0 | 17 | 34 | 0 |  | 3 | 45 | 21 | 120 |
| 2008 | 83 | 41 | 33 | 0 |  | 0 | 15 | 231 | 403 |
| 2009 | 51 | 45 | 0 |  |  | 0 | 17 | 0 | 113 |
| 2010 | 103 | 300 | 187 | 0 |  | 0 | 310 | 217 | 1,117 |
| 2011 | No Surveys Conducted |  |  |  |  |  |  |  | 0 |
| 2012 | 0 | 0 | 15 |  |  | aborted | aborted | aborted | 15 |
| 2013 | 2 | 22 | 151 |  |  | 6 | 16 | 94 | 291 |
| 2014 | 52 | 332 | 22 |  |  | 0 | 172 | 67 | 645 |
| 2015 | high dirty water--all spawning areas |  |  |  |  |  |  |  |  |
| 2016 | 2 | 16 | 6 |  |  | 0 | 46 | 6 | 76 |
| 2017 | 141 | 5 | 13 |  |  | 0 | 57 | 17 | 233 |
| 2018 | 19 | 9 | 4 |  |  | No Survey | 49 | 38 | 119 |
| Averages |  |  |  |  |  |  |  |  |  |
| 84-17 | 133 | 304 | 77 |  |  | 30 | 154 | 88 | 753 |
| 08-17 | 54 | 95 | 53 |  |  | 1 | 90 | 90 | 321 |

Appendix B. 21. Stikine River sockeye salmon run size, 1979-2018.

| Year | All Tahltan |  |  |  |  | Stikine Mainstem |  |  |  |  | All Tahltan + Mainstem |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Above border Run | Canadian Harvest |  | U.S. <br> Harvest | Terminal Run | Above border Run | Canadian Harvest |  | U.S. <br> Harvest | Terminal | Above border Run | Canadian Harvest | Escapement | U.S. | Terminal Run |
| 1979 | 17,472 | 7,261 | 10,211 | 5,076 | 22,548 | 22,880 | 6,273 | 16,608 | 3,223 | 26,103 | 40,353 | 13,534 | 26,819 | 8,299 | 48,652 |
| 1980 | 19,137 | 8,119 | 11,018 | 11,239 | 30,376 | 43,606 | 12,800 | 30,806 | 11,967 | 55,573 | 62,743 | 20,919 | 41,824 | 23,206 | 85,949 |
| 1981 | 65,968 | 15,178 | 50,790 | 16,189 | 82,157 | 72,911 | 11,839 | 61,072 | 11,349 | 84,260 | 138,879 | 27,017 | 111,862 | 27,538 | 166,417 |
| 1982 | 42,493 | 14,236 | 28,257 | 20,981 | 63,474 | 26,267 | 6,304 | 19,964 | 21,501 | 47,768 | 68,761 | 20,540 | 48,221 | 42,482 | 111,243 |
| 1983 | 32,684 | 11,428 | 21,256 | 5,075 | 37,759 | 38,999 | 9,692 | 29,307 | 699 | 39,698 | 71,683 | 21,120 | 50,563 | 5,774 | 77,457 |
| 1984 | 37,571 | 4,794 | 32,777 | 3,114 | 40,685 | 38,640 | 533 | 38,107 | 4,636 | 43,276 | 76,211 | 5,327 | 70,884 | 7,750 | 83,961 |
| 1985 | 86,008 | 18,682 | 67,326 | 25,197 | 111,205 | 98,739 | 8,122 | 90,617 | 4,550 | 103,289 | 184,747 | 26,804 | 157,943 | 29,747 | 214,494 |
| 1986 | 31,015 | 10,735 | 20,280 | 2,757 | 33,771 | 38,022 | 7,111 | 30,910 | 3,663 | 41,685 | 69,036 | 17,846 | 51,190 | 6,420 | 75,456 |
| 1987 | 11,923 | 4,965 | 6,958 | 2,255 | 14,178 | 27,342 | 6,318 | 21,023 | 1,822 | 29,164 | 39,264 | 11,283 | 27,981 | 4,077 | 43,342 |
| 1988 | 7,222 | 4,686 | 2,536 | 2,129 | 9,351 | 34,693 | 11,852 | 22,841 | 1,052 | 35,745 | 41,915 | 16,538 | 25,377 | 3,181 | 45,096 |
| 1989 | 14,111 | 5,795 | 8,316 | 1,561 | 15,672 | 60,947 | 15,844 | 45,103 | 13,931 | 74,878 | 75,058 | 21,639 | 53,419 | 15,492 | 90,550 |
| 1990 | 23,982 | 9,055 | 14,927 | 2,307 | 26,289 | 33,547 | 10,909 | 22,638 | 7,549 | 41,096 | 57,529 | 19,964 | 37,565 | 9,856 | 67,385 |
| 1991 | 67,394 | 17,259 | 50,135 | 21,916 | 89,311 | 52,759 | 7,879 | 44,880 | 9,368 | 62,126 | 120,153 | 25,138 | 95,015 | 31,284 | 151,437 |
| 1992 | 76,680 | 16,773 | 59,907 | 28,218 | 104,899 | 77,861 | 12,469 | 65,392 | 49,176 | 127,037 | 154,541 | 29,242 | 125,299 | 77,394 | 231,935 |
| 1993 | 84,068 | 32,458 | 51,610 | 40,036 | 124,104 | 92,033 | 20,240 | 71,792 | 64,594 | 156,627 | 176,100 | 52,698 | 123,402 | 104,630 | 280,730 |
| 1994 | 77,239 | 37,728 | 39,511 | 65,101 | 142,340 | 50,288 | 15,652 | 34,636 | 15,408 | 65,696 | 127,527 | 53,380 | 74,147 | 80,509 | 208,036 |
| 1995 | 82,290 | 50,713 | 31,577 | 51,665 | 133,955 | 57,802 | 14,953 | 42,850 | 24,169 | 81,971 | 140,092 | 65,665 | 74,427 | 75,834 | 215,926 |
| 1996 | 95,706 | 57,545 | 38,161 | 147,435 | 243,141 | 69,536 | 23,684 | 45,852 | 21,508 | 91,044 | 165,242 | 81,229 | 84,013 | 168,943 | 334,185 |
| 1997 | 37,319 | 25,214 | 12,105 | 43,408 | 80,727 | 59,600 | 22,164 | 37,436 | 20,330 | 79,930 | 96,919 | 47,378 | 49,541 | 63,738 | 160,657 |
| 1998 | 27,941 | 15,673 | 12,268 | 7,086 | 35,027 | 31,077 | 11,902 | 19,175 | 7,962 | 39,039 | 59,018 | 27,575 | 31,443 | 15,048 | 74,066 |
| 1999 | 35,918 | 25,599 | 10,319 | 23,449 | 59,367 | 13,797 | 7,726 | 6,071 | 20,092 | 33,889 | 49,715 | 33,325 | 16,390 | 43,541 | 93,256 |
| 2000 | 13,803 | 8,133 | 5,670 | 5,340 | 19,143 | 18,563 | 8,431 | 10,132 | 6,764 | 25,327 | 32,366 | 16,564 | 15,802 | 12,104 | 44,470 |
| 2001 | 20,985 | 6,224 | 14,761 | 6,339 | 27,324 | 54,987 | 14,132 | 40,855 | 4,193 | 59,180 | 75,972 | 20,356 | 55,616 | 10,532 | 86,504 |
| 2002 | 25,680 | 8,340 | 17,340 | 2,055 | 27,735 | 35,496 | 8,342 | 27,154 | 1,963 | 37,459 | 61,176 | 16,682 | 44,494 | 4,018 | 65,194 |
| 2003 | 81,808 | 28,275 | 53,533 | 16,298 | 98,106 | 81,803 | 23,831 | 57,972 | 21,494 | 103,297 | 163,611 | 52,106 | 111,505 | 37,792 | 201,403 |
| 2004 | 125,677 | 62,725 | 62,952 | 91,535 | 217,213 | 58,809 | 22,080 | 36,728 | 26,799 | 85,608 | 184,486 | 84,806 | 99,680 | 118,335 | 302,821 |
| 2005 | 110,903 | 67,857 | 43,046 | 63,714 | 174,617 | 53,343 | 18,555 | 34,788 | 28,517 | 81,860 | 164,245 | 86,412 | 77,834 | 92,231 | 256,476 |
| 2006 | 130,174 | 76,719 | 53,455 | 54,923 | 185,097 | 35,788 | 8,185 | 27,603 | 9,772 | 45,560 | 165,962 | 84,904 | 81,058 | 64,695 | 230,657 |
| 2007 | 59,537 | 38,663 | 20,874 | 63,330 | 122,867 | 32,418 | 11,553 | 20,865 | 5,274 | 37,692 | 91,955 | 50,216 | 41,739 | 68,604 | 160,559 |
| 2008 | 28,592 | 18,176 | 10,416 | 17,743 | 46,335 | 21,494 | 5,316 | 16,178 | 10,434 | 31,928 | 50,087 | 23,493 | 26,594 | 28,177 | 78,264 |
| 2009 | 60,428 | 30,104 | 30,324 | 37,664 | 98,092 | 24,082 | 6,933 | 17,148 | 17,304 | 41,385 | 84,509 | 37,037 | 47,472 | 54,968 | 139,477 |
| 2010 | 48,521 | 25,819 | 22,702 | 17,565 | 66,086 | 34,152 | 9,320 | 24,831 | 11,018 | 45,169 | 82,672 | 35,139 | 47,533 | 28,583 | 111,255 |
| 2011 | 65,226 | 30,978 | 34,248 | 37,480 | 102,706 | 45,750 | 16,357 | 29,393 | 19,021 | 64,771 | 110,977 | 47,335 | 63,641 | 56,501 | 167,477 |
| 2012 | 23,550 | 10,087 | 13,463 | 6,188 | 29,738 | 47,158 | 13,347 | 33,812 | 14,340 | 61,498 | 70,708 | 23,433 | 47,275 | 20,528 | 91,236 |
| 2013 | 29,173 | 13,345 | 15,828 | 7,618 | 36,791 | 41,236 | 14,144 | 27,091 | 15,684 | 56,920 | 70,408 | 27,489 | 42,919 | 23,302 | 93,710 |
| 2014 | 67,673 | 24,434 | 43,239 | 10,533 | 78,206 | 23,828 | 7,630 | 16,197 | 8,363 | 32,191 | 91,501 | 32,064 | 59,436 | 18,896 | 110,397 |
| 2015 | 61,944 | 28,785 | 33,159 | 12,207 | 74,151 | 40,661 | 14,229 | 26,432 | 10,552 | 51,212 | 102,605 | 43,014 | 59,591 | 22,759 | 125,363 |
| 2016 | 100,431 | 61,973 | 38,458 | 54,900 | 155,331 | 40,310 | 11,665 | 28,646 | 15,343 | 55,653 | 140,742 | 73,638 | 67,104 | 70,243 | 210,984 |
| 2017 | 48,649 | 29,408 | 19,241 | 14,698 | 63,347 | 19,098 | 7,420 | 11,678 | 7,122 | 26,220 | 67,747 | 36,828 | 30,919 | 21,820 | 89,566 |
| 2018 | 33,852 | 17,502 | 16,350 | 4,278 | 38,130 | 19,818 | 6,056 | 13,762 | 4,363 | 24,181 | 53,670 | 23,558 | 30,112 | 8,641 | 62,311 |
| Averages |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 79-17 | 53,254 | 24,716 | 28,537 | 26,829 | 80,083 | 44,880 | 11,942 | 32,938 | 14,167 | 59,047 | 98,134 | 36,658 | 61,475 | 40,996 | 139,129 |
| 08-17 | 53,419 | 27,311 | 26,108 | 21,660 | 75,078 | 33,777 | 10,636 | 23,141 | 12,918 | 46,695 | 87,196 | 37,947 | 49,248 | 34,578 | 121,773 |

Appendix B. 21. Page 2 of 2.

| Year | Stikine River |  |  |  |  | Tuya |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Above border Run | Canadian Harvest | Escapement | U.S. <br> Harvest | $\begin{gathered} \text { Terminal } \\ \text { Run } \\ \hline \end{gathered}$ | Above border Run | Canadian Harvest | Excess | U.S. <br> Harvest | Terminal Run |
| 1979 | 40,353 | 13,534 | 26,819 | 8,299 | 48,652 |  |  |  |  |  |
| 1980 | 62,743 | 20,919 | 41,824 | 23,206 | 85,949 |  |  |  |  |  |
| 1981 | 138,879 | 27,017 | 111,862 | 27,538 | 166,417 |  |  |  |  |  |
| 1982 | 68,761 | 20,540 | 48,221 | 42,482 | 111,243 |  |  |  |  |  |
| 1983 | 71,683 | 21,120 | 50,563 | 5,774 | 77,457 |  |  |  |  |  |
| 1984 | 76,211 | 5,327 | 70,884 | 7,750 | 83,961 |  |  |  |  |  |
| 1985 | 184,747 | 26,804 | 157,943 | 29,747 | 214,494 |  |  |  |  |  |
| 1986 | 69,036 | 17,846 | 51,190 | 6,420 | 75,456 |  |  |  |  |  |
| 1987 | 39,264 | 11,283 | 27,981 | 4,077 | 43,342 |  |  |  |  |  |
| 1988 | 41,915 | 16,538 | 25,377 | 3,181 | 45,096 |  |  |  |  |  |
| 1989 | 75,058 | 21,639 | 53,419 | 15,492 | 90,550 |  |  |  |  |  |
| 1990 | 57,529 | 19,964 | 37,565 | 9,856 | 67,385 |  |  |  |  |  |
| 1991 | 120,153 | 25,138 | 95,015 | 31,284 | 151,437 |  |  |  |  |  |
| 1992 | 154,541 | 29,242 | 125,299 | 77,394 | 231,935 |  |  |  |  |  |
| 1993 | 176,100 | 52,698 | 123,402 | 104,630 | 280,730 |  |  |  |  |  |
| 1994 | 127,527 | 53,380 | 74,147 | 80,509 | 208,036 |  |  |  |  |  |
| 1995 | 142,308 | 66,777 | 75,531 | 76,420 | 218,728 | 2,216 | 1,112 | 1,104 | 586 | 2,802 |
| 1996 | 184,400 | 90,148 | 94,252 | 188,385 | 372,785 | 19,158 | 8,919 | 10,239 | 19,442 | 38,600 |
| 1997 | 125,657 | 68,197 | 57,460 | 101,258 | 226,915 | 28,738 | 20,819 | 7,919 | 37,520 | 66,258 |
| 1998 | 90,459 | 50,486 | 39,973 | 30,989 | 121,448 | 31,442 | 22,911 | 8,531 | 15,941 | 47,383 |
| 1999 | 65,879 | 47,202 | 18,677 | 58,765 | 124,644 | 16,165 | 13,877 | 2,288 | 15,224 | 31,389 |
| 2000 | 53,145 | 31,535 | 21,610 | 25,359 | 78,504 | 20,779 | 14,971 | 5,808 | 13,255 | 34,034 |
| 2001 | 103,755 | 29,341 | 74,414 | 23,500 | 127,255 | 27,783 | 8,985 | 18,798 | 12,968 | 40,751 |
| 2002 | 71,253 | 22,607 | 48,646 | 8,076 | 79,329 | 10,078 | 5,925 | 4,153 | 4,058 | 14,136 |
| 2003 | 194,425 | 69,571 | 124,854 | 46,552 | 240,977 | 30,814 | 17,465 | 13,349 | 8,760 | 39,574 |
| 2004 | 189,395 | 88,451 | 100,944 | 122,592 | 311,987 | 4,909 | 3,645 | 1,264 | 4,257 | 9,166 |
| 2005 | 167,570 | 88,089 | 79,482 | 92,362 | 259,932 | 3,325 | 1,677 | 1,648 | 131 | 3,456 |
| 2006 | 193,768 | 102,733 | 91,035 | 74,817 | 268,585 | 27,806 | 17,829 | 9,977 | 10,122 | 37,928 |
| 2007 | 110,132 | 61,472 | 48,660 | 86,654 | 196,786 | 18,176 | 11,256 | 6,920 | 18,050 | 36,227 |
| 2008 | 74,267 | 37,097 | 37,170 | 45,942 | 120,209 | 24,180 | 13,604 | 10,576 | 17,765 | 41,945 |
| 2009 | 111,780 | 51,082 | 60,699 | 73,495 | 185,275 | 27,271 | 14,044 | 13,226 | 18,527 | 45,798 |
| 2010 | 116,354 | 55,471 | 60,883 | 40,647 | 157,001 | 33,682 | 20,332 | 13,350 | 12,064 | 45,746 |
| 2011 | 139,541 | 61,947 | 77,594 | 73,857 | 213,399 | 28,565 | 14,612 | 13,953 | 17,356 | 45,921 |
| 2012 | 95,840 | 34,922 | 60,918 | 28,700 | 124,540 | 25,132 | 11,489 | 13,643 | 8,172 | 33,304 |
| 2013 | 84,380 | 36,371 | 48,009 | 29,136 | 113,515 | 13,972 | 8,882 | 5,090 | 5,833 | 19,805 |
| 2014 | 122,759 | 44,056 | 78,703 | 23,881 | 146,640 | 31,259 | 11,992 | 19,267 | 4,984 | 36,243 |
| 2015 | 142,334 | 61,911 | 80,423 | 31,958 | 174,292 | 39,729 | 18,897 | 20,832 | 9,200 | 48,929 |
| 2016 | 164,451 | 88,649 | 75,802 | 83,441 | 247,892 | 23,709 | 15,011 | 8,698 | 13,199 | 36,908 |
| 2017 | 75,159 | 43,657 | 31,502 | 23,609 | 98,768 | 7,412 | 6,829 | 583 | 1,790 | 9,202 |
| 2018 | 55,541 | 24,256 | 31,285 | 8,950 | 64,491 | 1,871 | 698 | 1,173 | 309 | 2,180 |
| Averages |  |  |  |  |  |  |  |  |  |  |
| 79-17 | 111,799 | 43,976 | 67,822 | 48,537 | 160,336 |  |  |  |  |  |
| 08-17 | 116,184 | 53,298 | 62,886 | 51,771 | 167,955 | 26,567 | 14,012 | 12,556 | 12,515 | 39,083 |

Appendix B. 22. Tahltan wild and enhanced sockeye salmon run size, 1994-2018.

|  | All Tahltan |  |  |  |  | EnhancedTahltan |  |  |  |  | WildTahltan |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Above border Run | Canadian Harvest | Escapement | U.S. Harvest | $\begin{gathered} \text { Terminal } \\ \text { Run } \\ \hline \end{gathered}$ | Above border Run | Canadian Harvest | Escapement | U.S. <br> Harvest | Terminal Run | Above border Run | Canadian Harvest | Escapement | U.S. Harvest | $\begin{gathered} \text { Terminal } \\ \text { Run } \\ \hline \end{gathered}$ |
| 1994 | 77,239 | 37,728 | 39,511 | 65,101 | 142,340 | 8,767 | 2,018 | 6,749 | 18,305 | 27,072 | 68,471 | 35,709 | 32,762 | 46,793 | 115,264 |
| 1995 | 82,290 | 50,713 | 31,577 | 51,665 | 133,955 | 27,677 | 15,740 | 11,937 | 27,259 | 54,936 | 54,612 | 34,972 | 19,640 | 24,406 | 79,018 |
| 1996 | 95,706 | 57,545 | 38,161 | 147,435 | 243,141 | 11,608 | 7,159 | 4,449 | 16,568 | 28,176 | 84,098 | 50,386 | 33,712 | 130,867 | 214,965 |
| 1997 | 37,319 | 25,214 | 12,105 | 43,408 | 80,727 | 7,560 | 5,115 | 2,445 | 12,983 | 20,543 | 29,759 | 20,099 | 9,660 | 30,425 | 60,184 |
| 1998 | 27,941 | 15,673 | 12,268 | 7,086 | 35,027 | 1,620 | 929 | 691 | 428 | 2,048 | 26,321 | 14,744 | 11,577 | 6,658 | 32,979 |
| 1999 | 35,918 | 25,599 | 10,319 | 23,449 | 59,367 | 1,666 | 976 | 690 | 1,300 | 2,966 | 34,252 | 24,623 | 9,629 | 22,149 | 56,401 |
| 2000 | 13,803 | 8,133 | 5,670 | 5,340 | 19,143 | 2,177 | 1,029 | 1,148 | 1,051 | 3,228 | 11,626 | 7,104 | 4,522 | 4,289 | 15,915 |
| 2001 | 20,985 | 6,224 | 14,761 | 6,339 | 27,324 | 7,027 | 1,182 | 5,845 | 1,592 | 8,619 | 13,958 | 5,042 | 8,916 | 4,747 | 18,705 |
| 2002 | 25,680 | 8,340 | 17,340 | 2,055 | 27,735 | 7,037 | 1,940 | 5,097 | 680 | 7,717 | 18,643 | 6,400 | 12,243 | 1,375 | 20,018 |
| 2003 | 81,808 | 28,275 | 53,533 | 16,298 | 98,106 | 32,157 | 8,737 | 23,420 | 7,852 | 40,009 | 49,651 | 19,538 | 30,113 | 8,446 | 58,097 |
| 2004 | 125,677 | 62,725 | 62,952 | 91,535 | 217,213 | 56,627 | 25,383 | 31,244 | 37,444 | 94,071 | 69,050 | 37,342 | 31,708 | 54,091 | 123,142 |
| 2005 | 110,903 | 67,857 | 43,046 | 63,714 | 174,617 | 47,828 | 30,058 | 17,770 | 36,047 | 83,875 | 63,075 | 37,799 | 25,276 | 27,667 | 90,741 |
| 2006 | 130,174 | 76,719 | 53,455 | 54,923 | 185,097 | 68,202 | 42,430 | 25,772 | 30,768 | 98,970 | 61,972 | 34,289 | 27,683 | 24,155 | 86,127 |
| 2007 | 59,537 | 38,663 | 20,874 | 63,330 | 122,867 | 28,080 | 19,199 | 8,881 | 41,440 | 69,520 | 31,457 | 19,464 | 11,993 | 21,890 | 53,347 |
| 2008 | 28,592 | 18,176 | 10,416 | 17,743 | 46,335 | 12,927 | 7,632 | 5,295 | 8,219 | 21,146 | 15,666 | 10,544 | 5,121 | 9,524 | 25,190 |
| 2009 | 60,428 | 30,104 | 30,324 | 37,664 | 98,092 | 12,489 | 7,518 | 4,971 | 10,714 | 23,203 | 47,939 | 22,586 | 25,353 | 26,950 | 74,889 |
| 2010 | 48,521 | 25,819 | 22,702 | 17,565 | 66,086 | 17,353 | 7,757 | 9,596 | 6,990 | 24,342 | 31,168 | 18,062 | 13,106 | 10,575 | 41,743 |
| 2011 | 65,226 | 30,978 | 34,248 | 37,480 | 102,706 | 23,547 | 11,530 | 12,017 | 17,592 | 41,138 | 41,680 | 19,449 | 22,231 | 19,888 | 61,568 |
| 2012 | 23,550 | 10,087 | 13,463 | 6,188 | 29,738 | 9,404 | 3,640 | 5,764 | 2,337 | 11,740 | 14,146 | 6,447 | 7,699 | 3,851 | 17,998 |
| 2013 | 29,173 | 13,345 | 15,828 | 7,618 | 36,791 | 13,435 | 5,409 | 8,026 | 3,723 | 17,158 | 15,738 | 7,935 | 7,802 | 3,895 | 19,633 |
| 2014 | 67,673 | 24,434 | 43,239 | 10,533 | 78,206 | 30,100 | 11,102 | 18,998 | 5,418 | 35,518 | 34,079 | 13,332 | 20,747 | 5,115 | 39,194 |
| 2015 | 61,944 | 28,785 | 33,159 | 12,207 | 74,151 | 26,399 | 10,195 | 16,204 | 5,165 | 31,564 | 35,545 | 18,590 | 16,955 | 7,042 | 42,587 |
| 2016 | 100,431 | 61,973 | 38,458 | 54,900 | 155,331 | 33,232 | 18,314 | 14,917 | 18,189 | 51,421 | 67,203 | 43,659 | 23,544 | 36,711 | 103,913 |
| 2017 | 48,649 | 29,408 | 19,241 | 14,698 | 63,347 | 20,214 | 10,170 | 10,044 | 5,311 | 25,526 | 28,435 | 19,237 | 9,197 | 9,386 | 37,821 |
| 2018 | 33,852 | 17,502 | 16,350 | 4,278 | 38,130 | 17,326 | 9,179 | 8,146 | 2,272 | 19,597 | 16,527 | 8,323 | 8,204 | 2,006 | 18,533 |
| Averages |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 08-17 | 53,419 | 27,311 | 26,108 | 21,660 | 75,078 | 19,910 | 9,327 | 10,583 | 8,366 | 28,276 | 33,160 | 17,984 | 15,176 | 13,294 | 46,454 |

Appendix B. 23. Coho salmon harvest in the Alaskan District 106 and 108 test fisheries, 1984-2018.
Table only includes years when test fisheries were operated.

| Year | $106-41 / 42$ | $106-30$ | Total 106 | 108 |
| :--- | :---: | :---: | :---: | :---: |
| 1984 | 101 |  | 1,370 | 11 |
| 1985 | 301 |  | 4,345 | 11 |
| 1986 | 177 |  | 1,345 | 3 |
| 1987 | 799 | 95 | 3,558 | 13 |
| 1988 | 89 | 589 | 1,036 | 9 |
| 1989 | 275 | 412 | 2,080 | 45 |
| 1990 | 432 | 464 | 2,256 | 45 |
| 1991 |  |  |  | 18 |
| 1992 |  |  |  | 23 |
| 1993 |  |  | 12 | 0 |
| 1994 |  |  |  | 142 |
| -- |  |  |  | 217 |
| 1998 |  |  |  | 140 |
| 1999 |  |  |  |  |
| 2000 |  |  |  | 0 |
| -- |  |  |  |  |
| 2009 |  |  |  |  |

Appendix B. 24. Annual harvest of coho salmon in the Canadian lower and upper river commercial, Telegraph Aboriginal and the Canadian test fisheries, 1979-2018.

|  | Commercial |  |  | URCF | Telegraph <br> Aboriginal | Canada total <br> Stikine harvest | Test |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | LRCF | Before SW 35 | SW 35 to end |  |  |  | drift | set | additional | test total |
| 1972 |  |  |  |  | 0 | 0 |  |  |  | 0 |
| 1973 |  |  |  |  | 0 | 0 |  |  |  | 0 |
| 1974 |  |  |  |  | 0 | 0 |  |  |  | 0 |
| 1975 |  |  |  | 45 | 5 | 50 |  |  |  | 0 |
| 1976 |  |  |  | 13 | 0 | 13 |  |  |  | 0 |
| 1977 |  |  |  | 0 | 0 | 0 |  |  |  | 0 |
| 1978 |  |  |  | 0 | 0 | 0 |  |  |  | 0 |
| 1979 | 10,720 |  |  |  | 0 | 10,720 |  |  |  | 0 |
| 1980 | 6,629 |  |  | 40 | 100 | 6,769 |  |  |  | 0 |
| 1981 | 2,667 |  |  | 0 | 200 | 2,867 |  |  |  | 0 |
| 1982 | 15,904 |  |  | 0 | 40 | 15,944 |  |  |  | 0 |
| 1983 | 6,170 |  |  | 0 | 3 | 6,173 |  |  |  | 0 |
| 1984 |  |  |  |  | 1 | 1 |  |  |  | 0 |
| 1985 | 2,172 |  |  | 0 | 3 | 2,175 |  |  |  | 0 |
| 1986 | 2,278 |  |  | 0 | 2 | 2,280 | 226 |  |  | 226 |
| 1987 | 5,728 |  |  | 0 | 3 | 5,731 | 162 | 620 |  | 782 |
| 1988 | 2,112 |  |  | 0 | 5 | 2,117 | 75 | 130 |  | 205 |
| 1989 | 6,092 |  |  | 0 | 6 | 6,098 | 242 | 502 |  | 744 |
| 1990 | 4,020 |  |  | 0 | 17 | 4,037 | 134 | 271 |  | 405 |
| 1991 | 2,638 |  |  | 0 | 10 | 2,648 | 118 | 127 |  | 245 |
| 1992 | 1,850 |  |  | 0 | 5 | 1,855 | 75 | 193 | 0 | 268 |
| 1993 | 2,616 |  |  | 0 | 0 | 2,616 | 37 | 136 | 2 | 175 |
| 1994 | 3,377 |  |  | 0 | 4 | 3,381 | 71 | 0 | 0 | 71 |
| 1995 | 3,418 |  |  | 0 | 0 | 3,418 | 35 | 166 | 26 | 227 |
| 1996 | 1,402 |  |  | 0 | 2 | 1,404 | 55 | 0 | 0 | 55 |
| 1997 | 401 |  |  | 0 | 0 | 401 | 11 |  |  | 11 |
| 1998 | 726 |  |  | 0 | 0 | 0 | 207 |  |  | 207 |
| 1999 | 181 | 76 | 105 | 0 | 0 | 181 | 312 | 64 | 16 | 392 |
| 2000 | 298 | 235 | 63 | 0 | 3 | 301 | 60 | 181 | 195 | 436 |
| 2001 | 233 | 99 | 134 | 0 | 0 | 233 | 257 | 1,078 | 426 | 1,761 |
| 2002 | 82 | 82 | 0 | 0 | 0 | 82 | 306 | 1,323 | 1,116 | 2,745 |
| 2003 | 190 | 135 | 55 | 0 | 0 | 190 | 291 | 525 | 883 | 1,699 |
| 2004 | 271 | 242 | 29 | 0 | 4 | 275 | 352 | 135 | 0 | 487 |
| 2005 | 276 | 276 | 0 | 0 | 0 | 276 | 444 | 271 | 0 | 715 |
| 2006 | 72 | 72 | 0 | 0 | 0 | 72 | 343 | 181 | 0 | 524 |
| 2007 | 50 | 45 | 0 | 0 | 2 | 47 | 89 | 99 | 0 | 188 |
| 2008 | 2,398 | 61 | 2,337 | 0 | 0 | 2,398 | 321 | 216 | 0 | 537 |
| 2009 | 5,981 | 898 | 5,061 | 0 | 0 | 5,959 | 348 | 146 | 0 | 494 |
| 2010 | 5,301 | 349 | 4,952 | 0 | 0 | 5,301 | 488 | 253 | 0 | 741 |
| 2011 | 5,821 | 1,015 | 4,703 | 0 | 0 | 5,718 | 280 | 130 | 0 | 410 |
| 2012 | 6,188 | 440 | 5,748 | 0 | 0 | 6,188 | 393 | 43 | 0 | 436 |
| 2013 | 6,757 | 1,922 | 4,835 | 0 | 0 | 6,757 | 249 | 1,094 | 0 | 1,343 |
| 2014 | 5,409 | 417 | 4,992 | 0 | 0 | 5,409 | 83 | 259 | 0 | 342 |
| 2015 | 5,619 | 696 | 4,923 | 0 | 0 | 5,619 | 21 | 12 | 0 | 33 |
| 2016 | 5,346 | 389 | 4,957 | 0 | 0 | 5,346 | 36 | 104 | 0 | 140 |
| 2017 | 5,502 | 519 | 4,983 | 0 | 0 | 5,502 | 2 | 10 | 0 | 12 |
| 2018 | 3,685 | 361 | 3,324 | 0 | 0 | 3,685 | 32 | 86 | 0 | 118 |
| Averages |  |  |  |  |  |  |  |  |  |  |
| 85-17 | 2,873 |  |  | 0 | 2 | 2,849 | 191 | 285 | 111 | 517 |
| 08-17 | 5,432 |  |  | 0 | 0 | 5,420 | 222 | 227 | 0 | 449 |

Appendix B. 25. Index counts of Stikine River coho salmon escapements, 1984-2018.

${ }^{a}$ Veiwing conditions at the Craig River site were poor in 2004 and 2010.
${ }^{\mathrm{b}}$ West Katete and Katete not survey due to inclement weather
${ }^{c}$ aborted to due ice condtions and inclement weather

Appendix B. 26. Effort in the Canadian fisheries, including assessment fisheries in the Stikine River, 1979-2018.


Appendix B. 27. Counts of adult sockeye salmon migrating through Tahltan Lake weir, 1959-2018.

| Year | $\begin{gathered} \text { Weir } \\ \text { Installed } \end{gathered}$ | Date of Arrival |  |  | $\begin{aligned} & \text { Weir } \\ & \text { Pulled } \end{aligned}$ | Observed | Total escapement | Broodstock | $\begin{gathered} \text { Samples } \\ \text { or ESSR } \end{gathered}$ | $\begin{aligned} & \text { Otolith } \\ & \text { Samples } \end{aligned}$ | Spawners |  |  | Estimated Expansion |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | First | 50\% | 90\% |  |  |  |  |  |  | Total | Enhanced | Wild | Total | Enhanced | Wild |
| 1959 | 30-Jun | 2-Aug | 12-Aug | 16-Aug |  | 4,311 | 4,311 |  |  |  |  |  |  |  |  |  |
| 1960 | 15-Jul | 2-Aug | 24-Aug | 27-Aug |  | 6,387 | 6,387 |  |  |  |  |  |  |  |  |  |
| 1961 | 20-Jul | 9-Aug | 11-Aug | 15-Aug |  | 16,619 | 16,619 |  |  |  |  |  |  |  |  |  |
| 1962 | 1-Aug | 2-Aug | 5-Aug | 8 -Aug |  | 14,508 | 14,508 |  |  |  |  |  |  |  |  |  |
| 1963 | 3-Aug |  |  |  |  | 1,780 | 1,780 |  |  |  |  |  |  |  |  |  |
| 1964 | 23 -Jul | 26-Jul | 14-Aug | 25-Aug |  | 18,353 | 18,353 |  |  |  |  |  |  |  |  |  |
| $1965^{\text {a }}$ | 19-Jul | 18-Jul | 2 -Sep | 7 -Sep |  | 1,471 | 1,471 |  |  |  |  |  |  |  |  |  |
| 1966 | 12-Jul | 3-Aug | 13-Aug | 21-Aug |  | 21,580 | 21,580 |  |  |  |  |  |  |  |  |  |
| 1967 | 11-Jul | 14-Jul | 21-Jul | $28-\mathrm{-Jul}$ |  | 38,801 | 38,801 |  |  |  |  |  |  |  |  |  |
| 1968 | 11-Jul | 21-Jul | 25 -Jul | 8 -Aug |  | 19,726 | 19,726 |  |  |  |  |  |  |  |  |  |
| 1969 | 7-Jul | 11-Jul | 18-Jul | 31-Jul |  | 11,805 | 11,805 |  |  |  |  |  |  |  |  |  |
| 1970 | 5-Jul | $25-\mathrm{Jul}$ | 1-Aug | 11-Aug |  | 8,419 | 8,419 |  |  |  |  |  |  |  |  |  |
| 1971 | 12-Jul | 19-Jul | 28-Jul | 12-Aug |  | 18,523 | 18,523 |  |  |  |  |  |  |  |  |  |
| 1972 | 13-Jul | 13-Jul | 19-Jul | 31-Aug | 21-Aug | 52,545 | 52,545 |  |  |  |  |  |  |  |  |  |
| 1973 | 10-Jul | 24-Jul | 30-Jul | 7-Aug | 1 -Sep | 2,877 | 2,877 |  |  |  |  |  |  |  |  |  |
| 1974 | 3-Jul | 28 -Jul | 3-Aug | 17-Aug | 13-Sep | 8,101 | 8,101 |  |  |  |  |  |  |  |  |  |
| 1975 | 10-Jul | $25-\mathrm{Jul}$ | 8-Aug | 17-Aug | 28-Aug | 8,159 | 8,159 |  |  |  |  |  |  |  |  |  |
| 1976 | 16-Jul | 29-Jul | 1-Aug | 6-Aug | 24-Aug | 24,111 | 24,111 |  |  |  |  |  |  |  |  |  |
| 1977 | 6 -Jul | 11-Jul | 16-Jul | 10-Aug | 25-Aug | 42,960 | 42,960 |  |  |  |  |  |  |  |  |  |
| 1978 | 10-Jul | 10-Jul | 20-Jul | 29-Jul | 26-Aug | 22,788 | 22,788 |  |  |  |  |  |  |  |  |  |
| 1979 | 9 9-Jul | 23-Jul | 1-Aug | 11-Aug | 31-Aug | 10,211 | 10,211 |  |  |  |  |  |  |  |  |  |
| 1980 | 4-Jul | 15-Jul | 22 -Jul | 12-Aug | 3 -Sep | 11,018 | 11,018 |  |  |  |  |  |  |  |  |  |
| 1981 | 30-Jun | 16-Jul | 26-Jul | 3-Aug | ${ }_{8}$-Sep | 50,790 | 50,790 |  |  |  |  |  |  |  |  |  |
| 1982 | 2-Jul | 10-Jul | 19-Jul | 29-Jul | 4 -Sep | 28,257 | 28,257 |  |  |  |  |  |  |  |  |  |
| 1983 | 27-Jun | 5-Jul | 22 -Jul | 5-Aug | 7 -Sep | 21,256 | 21,256 |  |  |  |  |  |  |  |  |  |
| 1984 | 20-Jun | 19-Jul | 24 -Jul | 3-Aug | 29-Aug | 32,777 | 32,777 |  |  |  |  |  |  |  |  |  |
| 1985 | 28-Jun | 18-Jul | 31-Jul | 6-Aug | 5 -Sep | 67,326 | 67,326 |  |  |  |  |  |  |  |  |  |
| 1986 | 10-Jul | 26-Jul | 4-Aug | 11-Aug | 4-Sep | 20,280 | 20,280 |  |  |  |  |  |  |  |  |  |
| 1987 | 14-Jul | 21-Jul | 4-Aug | 13-Aug | 27-Aug | 6,958 | 6,958 |  |  |  |  |  |  |  |  |  |
| 1988 | 16-Jul | 16-Jul | 6 -Aug | 14Aug | 29-Aug | 2,536 | 2,536 |  |  |  |  |  |  |  |  |  |
| 1989 | 7-Jul | $9-\mathrm{Jul}$ | 1-Aug | 14Aug | 4-Sep | 8,316 | 8,316 | 2,210 |  |  | 6,106 |  |  |  |  |  |
| 1990 | 6 -Jul | 15-Jul | 26-Jul | 3-Aug | 28-Aug | 14,927 | 14,927 | 3,302 |  |  | 11,625 |  |  |  |  |  |
| 1991 | 30-Jun | 17-Jul | $25-\mathrm{Jul}$ | 7-Aug | 5 -Sep | 50,135 | 50,135 | 3,552 |  |  | 46,583 |  |  |  |  |  |
| 1992 | 9-Jul | 18-Jul | $25-\mathrm{Jul}$ | 3-Aug | 2 -Sep | 59,907 | 59,907 | 3,694 |  |  | 56,213 |  |  |  |  |  |
| 1993 | 7-Jul | 10-Jul | 28 -Jul | 10-Aug | 11-Sep | 53,362 | 51,610 | 4.506 | 1,752 |  | 47,104 | 1,030 | 46,074 |  |  |  |
| 1994 | 7-Jul | 14-Jul | 30-Jul | 9-Aug | 7 -Sep | 46,363 | 39,511 | 3,378 | 6,852 |  | 36,133 | 6,172 | 29,961 |  |  |  |
| 1995 | 8 -Jul | 9-Jul | $24 . \mathrm{Jul}$ | 12-Aug | 16-Sep | 42,317 | 31,577 | 4,902 | 10,740 |  | 26,675 | 10,084 | 16,591 |  |  |  |
| 1996 | 6 -Jul | 14-Jul | 22-Jul | 04Aug | 10-Sep | 52,500 | 38,161 | 4,402 | 14,339 |  | 33,759 | 3,936 | 29,823 |  |  |  |
| 1997 | 9-Jul | 15-Jul | 25 -Jul | 26-Aug | 26-Sep | 12,483 | 12,105 | 2,294 |  | 378 | 9,811 | 1,982 | 7,829 |  |  |  |
| 1998 | 9-Jul | 11-Jul | 25-Jul | 26-Aug | 17-Sep | 12,658 | 12,268 | 3,099 |  | 390 | 9,169 | 616 | 8.553 |  |  |  |
| 1999 | 10-Jul | 19-Jul | 31-Jul | 13-Aug | 15-Sep | 10,748 | 10,319 | 2,870 |  | 429 | 7,449 | 497 | 6,952 |  |  |  |
| 2000 | 9-Jul | 21-Jul | $25-\mathrm{Jul}$ | 03-Aug | 4 Sep | 6,076 | 5,670 | 1,717 |  | 406 | 3,953 | 801 | 3,152 |  |  |  |
| 2001 | 08-Jul | 19-Jul | 31-Jul | 09-Aug | 14-Sep | 14,811 | 14,761 | 2,386 |  | 50 | 12,375 | 4,900 | 7,475 |  |  |  |
| 2002 | 07-Jul | 12-Jul | 25 -Jul | 08-Aug | 14 Sep | 17,740 | 17,340 | 3,051 |  | 400 | 14,289 | 3,799 | 10,490 |  |  |  |
| 2003 | 07-Jul | 11-Jul | 29-Jul | 08-Aug | 18 -Sep | 53,933 | 53,533 | 3,946 |  | 400 | 49,587 | 21,694 | 27,893 |  |  |  |
| 2004 | 07-Jul | 12-Jul | 25 -Jul | 10-Aug | 15-Sep | 63,372 | 62,952 | 4,243 |  | 420 | 58,709 | 29,994 | 28,715 |  |  |  |
| 2005 | 07-Jul | 11-Jul | 04-Aug | 25-Aug | 15-Sep | 43,446 | 43,046 | 3,424 |  | 400 | 39,622 | 16,420 | 23,202 |  |  |  |
| 2006 | 09-Jul | 12-Jul | 27-Jul | 20-Aug | 13-Sep | 53,855 | 53,455 | 3,403 |  | 400 | 50,052 | 24,126 | 25,926 |  |  |  |
| 2007 | 09-Jul | 20-Jul | 08-Aug | 19-Aug | 15-Sep | 21,074 | 20,874 | 2,839 |  | 200 | 18,035 | 7,673 | 10,362 |  |  |  |
| 2008 | 13-Jul | $21-\mathrm{Jul}$ | 30-Jul | 10-Aug | 18 -Sep | 10.516 | 10,416 | 2,364 |  | 100 | 8,052 | 4,143 | 3,909 |  |  |  |
| 2009 | 09-Jul | 13-Jul | 18-Jul | 04Aug | 14-Sep | 30,673 | 30,324 | 3,011 |  | 349 | 27,313 | 4,041 | 23,272 |  |  |  |
| 2010 | 07-Jul | 10-Jul | 29-Jul | 12-Aug | 15-Sep | 22,860 | 22,702 | 4,484 |  | 158 | 18,218 | 7,789 | 10,429 |  |  |  |
| 2011 | 09-Jul | 13-Jul | 18-Jul | 07-Aug | 15-Sep | 34,588 | 34,248 | 4,559 |  | 340 | 29,689 | 10,248 | 19,441 |  |  |  |
| 2012 | 09-Jul | 16-Jul | $24 . \mathrm{Jul}$ | 08-Aug | 30-Aug | 13,687 | 13,463 | 3,949 |  | 224 | 9,514 | 3,928 | 5.586 |  |  |  |
| 2013 | 07-Jul | 16-Jul | $20-\mathrm{Jul}$ | 02-Aug | 08 -Sep | 15,828 | 15,828 | 3,196 |  | 0 | 12,632 | 6,383 | 6,249 |  |  |  |
| 2014 | 16-Jul | 22-Jul | 25-Jul | 31-Jul | 11-Sep | 40,145 | 39,745 | 2,881 |  | 400 | 36,864 | 17,376 | 19,488 | 3,494 | 1,656 | 1,838 |
| 2015 | 09-Jul | 15-Jul | 07-Aug | 23-Aug | 13-Sep | 33,159 | 33,159 | 3,871 |  | 0 | 29,288 | 14,312 | 14,976 |  |  |  |
| 2016 | 07-Jul | 11-Jul | 05-Aug | 22-Aug | 12-Sep | 38,631 | 38,458 | 4,315 |  | 173 | 34,146 | 13,245 | 20,901 |  |  |  |
| 2017 | 07-Jul | 14-Jul | 05-Aug | 31-Aug | 18-Sep | 19,241 | 19,241 | 2,909 |  | 0 | 16,332 | 8,525 | 7,807 |  |  |  |
| 2018 | 07-Jul | 15-Jul |  |  | 09 -Sep | 9,854 | 16,350 | 1,878 |  | 207 | 14,472 | 7,210 | 7,262 | 6,703 | 3,340 | 3,363 |
| Averages |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 59-17 | 09-Jul | 17-Jul | 29-Jul | 11-Aug | 07-Sep | 25,298 | 24,632 |  |  |  |  |  |  |  |  |  |
| 08-17 | 09-Jul | 15-Jul | 27-Jul | 11-Aug | 12-Sep | 25,933 | 25,758 | 3,554 |  | 174 | 22,205 | 8,999 | 13,206 |  |  |  |

Appendix B. 28. Estimates of sockeye salmon smolt migrating through Tahltan Lake smolt weir, 1984-2018.

| Year | Weir | Date of Arrival |  |  | Total Count | Total Estimate | Date and Expansion | Smolt |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Installed | First | 50\% | 90\% |  |  |  | Wild | Enhanced |
| 1984 | 10-May | 11-May | 23-May | 06-Jun |  | 218,702 |  |  |  |
| 1985 | $25-\mathrm{Apr}$ | 23-May | 31-May | 28-May |  | 613,531 |  |  |  |
| 1986 | 08-May | 10-May | 31-May | 07-Jun |  | 244,330 |  |  |  |
| $1987{ }^{\text {a }}$ | 07-May | 15-May | 23-May | 24-May |  | 810,432 |  |  |  |
| 1988 | 01-May | 08-May | 20-May | 06-Jun |  | 1,170,136 |  |  |  |
| 1989 | 05-May | 08-May | 22-May | 06-Jun |  | 580,574 |  |  |  |
| $1990{ }^{\text {b }}$ |  | 15-May | 29-May | 05-Jun | 595,147 | 610,407 | 6/14 97.5\% |  |  |
| $1991{ }^{\text {c }}$ | 05-May | 14-May | 21-May | 30-May | 1,439,676 | 1,487,265 | 6/13 96.8\% | 1,220,397 | 266,868 |
| $1992{ }^{\text {d }}$ | 07-May | 13-May | 21-May | 27-May | 1,516,150 | 1,555,026 | 6/14 97.5\% | 750,702 | 804,324 |
| 1993 | 07-May | 11-May | 17-May | 22-May |  | 3,255,045 |  | 2,855,562 | 399,483 |
| 1994 | 08-May | 08-May | 16-May | 12-Jun |  | 915,119 |  | 620,809 | 294,310 |
| 1995 | 05-May | 06-May | 13-May | 11-Jun |  | 822,284 |  | 767,027 | 55,257 |
| 1996 | 11-May | 11-May | 20-May | 25-May |  | 1,559,236 |  | 1,408,020 | 151,216 |
| 1997 | 07-May | 11-May | 23-May | 30-May |  | 518,202 |  | 348,685 | 169,517 |
| 1998 | 07-May | 08-May | 25-May | 05-Jun |  | 540,866 |  | 326,420 | 214,446 |
| 1999 | 06-May | 10-May | 09-Jun | 15-Jun |  | 762,033 |  | 468,488 | 293,545 |
| 2000 | 07-May | 09-May | 22-May | 17-Jun |  | 619,274 |  | 355,618 | 263,656 |
| 2001 | 06-May | 07-May | 24-May | 18-Jun |  | 1,495,642 |  | 841,268 | 654,374 |
| 2002 | 06-May | 14-May | 27-May | 12-Jun |  | 1,873,598 |  | 1,042,435 | 831,163 |
| 2003 | 06-May | 11-May | 29-May | 06-Jun |  | 1,960,480 |  | 979,442 | 981,038 |
| 2004 | 06-May | 10-May | 21-May | 25-May |  | 2,116,701 |  | 825,513 | 1,291,188 |
| 2005 | 06-May | 07-May | 17-May | 25-May |  | 1,843,804 |  | 943,929 | 899,875 |
| 2006 | 06-May | 10-May | 25-May | 02-Jun |  | 2,195,266 |  | 1,773,062 | 422,204 |
| 2007 | 06-May | 16-May | 21-May | 28-May |  | 1,055,114 |  | 644,987 | 410,127 |
| 2008 | 06-May | 12-May | 23-May | 02-Jun |  | 1,402,995 |  | 870,295 | 532,700 |
| 2009 | 06-May | 14-May | 26-May | 01-Jun |  | 746,045 |  | 484,929 | 261,116 |
| 2010 | 06-May | 10-May | 23-May | 07-Jun |  | 557,532 |  | 306,344 | 251,188 |
| 2011 | 07-May | 17-May | 26-May | 01-Jun |  | 1,632,119 |  | 960,531 | 671,588 |
| 2012 | 10-May | 13-May | 25-May | 02-Jun |  | 639,473 |  | 324,876 | 314,597 |
| 2013 | 08-May | 10-May | 23-May | 28-May |  | 2,387,669 |  | 1,671,368 | 716,301 |
| 2014 | 11-May | 16-May | 24-May | 30-May | 1,461,359 | 1,531,823 | 6/05 95.4\% | 980,367 | 551,456 |
| 2015 | 07-May | 12-May | 20-May | 26-May | 2,096,350 | 2,123,168 |  | 966,041 | 1,157,127 |
| 2016 | 06-May | 10-May | 18-May | 24-May | 2,094,592 | 2,094,592 |  | 1,019,421 | 1,075,171 |
| 2017 | 04-May | 07-May | 28-May | 03-Jun | 2,461,675 | 2,461,675 |  | 1,186,954 | 1,274,721 |
| 2018 | 06-May | 11-May | 19-May | 25-May | 1,014,975 | 1,014,975 |  | 378,733 | 636,242 |
| Averages |  |  |  |  |  |  |  |  |  |
| 84-17 | 27-Jan | 11-May | 23-May | 02-Jun |  | 1,305,887 |  | 923,833 | 563,280 |
| 08-17 | 07-May | 12-May | 23-May | 31-May |  | 1,557,709 |  | 877,113 | 680,596 |

[^0]Appendix B. 29. Weir counts of Chinook salmon at Little Tahltan River, 1985-2018.

| Year | Weir <br> Installed | Date of Arrival |  |  | Total Count | Broodstock and Other | Wild Spawners | Landslide mortality |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | First | 50\% | 90\% |  |  |  |  |
| Large Chinook |  |  |  |  |  |  |  |  |
| 1985 | 03-Jul | 04-Jul | 30-Jul | 06-Aug | 3,114 |  | 3,114 |  |
| 1986 | 28-Jun | 29-Jun | 21-Jul | 05-Aug | 2,891 |  | 2,891 |  |
| 1987 | 28-Jun | 04-Jul | 24-Jul | 02-Aug | 4,783 |  | 4,783 |  |
| 1988 | 26-Jun | 27-Jun | 18-Jul | 03-Aug | 7,292 |  | 7,292 |  |
| 1989 | 25-Jun | 26-Jun | 23-Jul | 02-Aug | 4,715 |  | 4,715 |  |
| 1990 | 22-Jun | 29-Jun | 23-Jul | 04-Aug | 4,392 |  | 4,392 |  |
| 1991 | 23-Jun | 25-Jun | 20-Jul | 03-Aug | 4,506 |  | 4,506 |  |
| 1992 | 24-Jun | 04-Jul | 21-Jul | 30-Jul | 6,627 | -12 | 6,615 |  |
| 1993 | 20-Jun | 21-Jun | 16-Jul | 28-Jul | 11,449 | -12 | 11,437 |  |
| 1994 | 18-Jun | 28-Jun | 22-Jul | 02-Aug | 6,387 | -14 | 6,373 |  |
| 1995 | 17-Jun | 20-Jun | 17-Jul | 04-Aug | 3,072 | 0 | 3,072 |  |
| 1996 | 17-Jun | 26-Jun | 16-Jul | 30-Jul | 4,821 | 0 | 4,821 |  |
| 1997 | 14-Jun | 22-Jun | 16-Jul | 29-Jul | 5,557 | -10 | 5,547 |  |
| 1998 | 13-Jun | 19-Jun | 14-Jul | 29-Jul | 4,879 | -6 | 4,873 |  |
| 1999 | 18-Jun | 27-Jun | 19-Jul | 1-Aug | 4,738 | -5 | 4,733 |  |
| 2000 | 19-Jun | 23-Jun | 21-Jul | 5-Aug | 6,640 | -9 | 6,631 |  |
| 2001 | 20-Jun | 23-Jun | 18-Jul | 2-Aug | 9,738 | -8 | 9,730 |  |
| 2002 | 20-Jun | 23-Jun | 18-Jul | 27-Jul | 7,490 | -14 | 7,476 |  |
| 2003 | 20-Jun | 20-Jun | 19-Jul | 6-Aug | 6,492 | 0 | 6,492 |  |
| 2004 | 18-Jun | 19-Jun | 20-Jul | 31-Jul | 16,381 | 0 | 16,381 |  |
| 2005 | 19-Jun | 21-Jun | 22-Jul | 4-Aug | 7,387 | 0 | 7,387 |  |
| 2006 | 20-Jun | 26-Jun | 21-Jul | 29-Jul | 3,860 | 0 | 3,860 |  |
| 2007 | 4-Jul | 10-Jul | 29-Jul | 4-Aug | 562 | 0 | 562 |  |
| 2008 | 19-Jun | 6-Jul | 26-Jul | 4-Aug | 2,663 | 0 | 2,663 |  |
| 2009 | 19-Jun | 3-Jul | 19-Jul | 4-Aug | 2,245 | 0 | 2,245 |  |
| 2010 | 19-Jun | 22-Jun | 23-Jul | 2-Aug | 1,057 | 0 | 1,057 |  |
| 2011 | 19-Jun | 22-Jun | 23-Jul | 2-Aug | 1,753 | 0 | 1,753 |  |
| 2012 | 27-Jun | 7-Jul | 26-Jul | 5-Aug | 720 | 0 | 720 |  |
| 2013 | 20-Jun | 9-Jul | 27-Jul | 5-Aug | 878 | 0 | 878 |  |
| 2014 | 23-Jun | 18-Jul | 28-Jul | 31-Jul | 169 |  | 169 | 394 |
| 2015 | 19-Jun | 14-Jul | 24-Jul | 27-Jul | 450 |  | 450 |  |
| 2016 | 22-Jun | 8 -Jul | 28-Jul | 5-Aug | 921 |  | 921 |  |
| 2017 | 23-Jun | 23-Jun | 18-Jul | 6-Aug | 428 |  | 428 |  |
| 2018 | 23-Jun | 23-Jun | 18-Jul | 31-Jul | 453 |  | 453 |  |
| Averages |  |  |  |  |  |  |  |  |
| 85-17 | 21-Jun | 28-Jun | 21-Jul | 02-Aug | 12-May |  | 4,514 |  |
| 08-17 | 21-Jun | 04-Jul | 24-Jul | 02-Aug | 01-Feb |  | 1,128 |  |
| nonlarge Chinook |  |  |  |  |  |  |  |  |
| 1985 | 03-Jul | 04-Jul | 31-Jul | 10-Aug | 316 |  | 316 |  |
| 1986 | 28-Jun | 03-Jul | 25-Jul | 06-Aug | 572 |  | 572 |  |
| 1987 | 28-Jun | 03-Jul | 26-Jul | 06-Aug | 365 |  | 365 |  |
| 1988 | 26-Jun | 27-Jun | 17-Jul | 02-Aug | 327 |  | 327 |  |
| 1989 | 25-Jun | 26-Jun | 23-Jul | 02-Aug | 199 |  | 199 |  |
| 1990 | 22-Jun | 05-Jul | 22-Jul | 30-Jul | 417 |  | 417 |  |
| 1991 | 23-Jun | 03-Jul | 24-Jul | 07-Aug | 313 |  | 313 |  |
| 1992 | 24-Jun | 12-Jul | 22-Jul | 30-Jul | 131 |  | 131 |  |
| 1993 | 20-Jun | 30-Jun | 14-Jul | 01-Aug | 60 |  | 60 |  |
| 1994 | 18-Jun | 02 -Jul | 22-Jul | 05-Aug | 121 |  | 121 |  |
| 1995 | 17-Jun | 22-Jun | 28-Jul | 10-Aug | 135 |  | 135 |  |
| 1996 | 17-Jun | 12-Jul | 25-Jul | 05-Aug | 22 |  | 22 |  |
| 1997 | 14-Jun | 26-Jun | 21-Jul | 1-Aug | 54 |  | 54 |  |
| 1998 | 13-Jun | 26-Jun | 20-Jul | 7-Aug | 37 |  | 37 |  |
| 1999 | 18-Jun | 1-Jul | 23-Jul | 6-Aug | 202 |  | 202 |  |
| 2000 | 19-Jun | 23-Jun | 20-Jul | 5-Aug | 108 |  | 108 |  |
| 2001 | 20-Jun | 23-Jun | 27-Jul | 3-Aug | 269 |  | 269 |  |
| 2002 | 20-Jun | 26-Jun | 21-Jul | 7-Aug | 618 |  | 618 |  |
| 2003 | 20-Jun | 30-Jun | 21-Jul | 5-Aug | 334 |  | 334 |  |
| 2004 | 18-Jun | 21-Jun | 19-Jul | 31-Jul | 250 |  | 250 |  |
| 2005 | 19-Jun | 29-Jun | 23-Jul | 4-Aug | 231 |  | 231 |  |
| 2006 | 20-Jun | 7-Jul | 23-Jul | 5-Aug | 93 |  | 93 |  |
| 2007 | 04-Jul | 15-Jul | 29-Jul | 1-Aug | 12 |  | 12 |  |
| 2008 | 19-Jun | 14-Jul | 25-Jul | 29-Jul | 139 |  | 139 |  |
| 2009 | 19-Jun | 9-Jul | 19-Jul | 4-Aug | 99 |  | 99 |  |
| 2010 | 19-Jun | 7-Jul | 26-Jul | 4-Aug | 221 |  | 221 |  |
| 2011 | 27-Jun | 7-Jul | 26-Jul | 4-Aug | 194 |  | 194 |  |
| 2012 | 27-Jun | 11-Jul | 18-Jul | 27-Jul | 51 |  | 51 |  |
| 2013 | 20-Jun | 13-Jul | 27-Jul | 3-Aug | 183 |  | 183 |  |
| 2014 ${ }^{\text {a }}$ | 23-Jun | 18-Jul | 28-Jul | 31-Jul | 39 |  | 39 | 91 |
| 2015 | 19-Jun | 14-Jul | 24-Jul | 27-Jul | 490 |  | 490 |  |
| 2016 | 22-Jun | 9-Jul | 28-Jul | 6-Aug | 318 |  | 318 |  |
| 2017 | 23-Jun | 26-Jun | 26-Jul | 7-Aug | 311 |  | 311 |  |
| $\underline{2018}$ | 24-Jun | 1-Jul | 27-Jul | 4-Aug | 413 |  | 413 |  |
| Averages |  |  |  |  |  |  |  |  |
| 85-17 | 21-Jun | 03-Jul | 23-Jul | 03-Aug | 06-Aug |  | 219 |  |
| 08-17 | 21-Jun | 09-Jul | 24-Jul | 01-Aug | 22-Jul |  | 205 |  |

Appendix C. 1. Weekly Chinook salmon estimates in the U.S. fisheries in D111, 2018.


Appendix C. 2. Weekly Chinook salmon abundance estimates of above border run and harvest in the Canadian fisheries in the Taku River 2018.


Appendix C. 3. Weekly sockeye salmon harvest of Alaskan D111 traditional and terminal hatchery access common property commercial drift gillnet fishery, 2018.

| SW | D111 Commercial drift gillnet |  |  |  |  |  | Amalga Seine 111-55 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Gillnet | Traditional StatArea specific harvests |  |  |  | Speel Arm SHA |  |
|  | D111 Total | 111-32 | 111-31/90 | 111-20 | 111-34 | 111-33 |  |
| 25 | 244 | 227 | 17 |  |  |  |  |
| 26 | 1,100 | 966 | 134 |  |  |  |  |
| 27 | 1,721 | 1,454 | 267 |  |  |  | 514 |
| 28 | 6,208 | 4,159 | 2,049 |  |  |  | 841 |
| 29 | 17,058 | 11,840 | 5,218 |  |  |  | 917 |
| 30 | 18,588 | 13,117 | 5,471 |  |  |  | 28 |
| 31 | 9,934 | 5,937 | 2,421 |  | 1,576 |  |  |
| 32 | 19,124 | 1,973 | 3,216 |  | 3,010 | 10,925 |  |
| 33 | 11,718 | 643 | 1,101 |  | 428 | 9,546 |  |
| 34 | 5,586 | 1,104 | 620 |  | 65 | 3,797 |  |
| 35 | 1,377 | 775 | 114 |  |  | 488 |  |
| 36 | 196 | 185 |  |  |  | 11 |  |
| 37 | 31 | 31 |  |  |  |  |  |
| 38 | 3 | 3 |  |  |  |  |  |
| 39 | 1 | 1 |  |  |  |  |  |
| 40 | 0 |  |  |  |  |  |  |
| 41 | 0 |  |  |  |  |  |  |
| Total | 92,889 | 42,415 | 20,628 | 0 | 5,079 | 24,767 | 2,300 |

Appendix C. 4. Weekly stock proportions of sockeye salmon harvested in the Alaskan
District 111 traditional commercial drift gillnet fishery, 2018.

| SW | D111 Commercial gillnet |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Taku harvest proportions |  |  |  |  |  | Total <br> Taku | Wild Snet/ wild other | $\begin{gathered} \text { U.S. } \\ \text { Enhanced } \end{gathered}$ | Stikine <br> Enhanced | Total <br> Enhanced | Total Wild |
|  |  |  | Tatsamenie |  | King Salmon | Taku |  |  |  |  |  |  |
|  | Taku Lakes | Mainstem | Wild | Enhanced | Enhanced | Wild |  |  |  |  |  |  |
| 25 | 0.433 | 0.527 | 0.002 | 0.001 | 0.016 | 0.962 | 0.980 | 0.017 | 0.002 | 0.002 | 0.021 | 0.979 |
| 26 | 0.548 | 0.385 | 0.002 | 0.000 | 0.049 | 0.936 | 0.985 | 0.007 | 0.000 | 0.008 | 0.057 | 0.943 |
| 27 | 0.383 | 0.334 | 0.014 | 0.011 | 0.049 | 0.731 | 0.791 | 0.049 | 0.149 | 0.011 | 0.220 | 0.780 |
| 28 | 0.192 | 0.286 | 0.014 | 0.013 | 0.012 | 0.492 | 0.517 | 0.058 | 0.419 | 0.006 | 0.450 | 0.550 |
| 29 | 0.095 | 0.185 | 0.031 | 0.017 | 0.002 | 0.310 | 0.329 | 0.040 | 0.631 | 0.000 | 0.649 | 0.351 |
| 30 | 0.092 | 0.232 | 0.089 | 0.020 | 0.003 | 0.412 | 0.435 | 0.043 | 0.519 | 0.003 | 0.545 | 0.455 |
| 31 | 0.067 | 0.268 | 0.116 | 0.030 | 0.005 | 0.451 | 0.486 | 0.055 | 0.459 | 0.000 | 0.494 | 0.506 |
| 32 | 0.005 | 0.159 | 0.064 | 0.004 | 0.004 | 0.228 | 0.237 | 0.097 | 0.662 | 0.004 | 0.675 | 0.325 |
| 33 | 0.005 | 0.159 | 0.064 | 0.004 | 0.004 | 0.228 | 0.237 | 0.097 | 0.662 | 0.004 | 0.675 | 0.325 |
| 34 | 0.009 | 0.130 | 0.113 | 0.006 | 0.000 | 0.252 | 0.258 | 0.061 | 0.680 | 0.000 | 0.687 | 0.313 |
| 35 | 0.011 | 0.074 | 0.048 | 0.007 | 0.000 | 0.133 | 0.140 | 0.015 | 0.841 | 0.004 | 0.852 | 0.148 |
| 36 | 0.011 | 0.074 | 0.048 | 0.007 | 0.000 | 0.133 | 0.140 | 0.015 | 0.841 | 0.004 | 0.852 | 0.148 |
| 37 | 0.011 | 0.074 | 0.048 | 0.007 | 0.000 | 0.133 | 0.140 | 0.015 | 0.841 | 0.004 | 0.852 | 0.148 |
| 38 | 0.011 | 0.074 | 0.048 | 0.007 | 0.000 | 0.133 | 0.140 | 0.015 | 0.841 | 0.004 | 0.852 | 0.148 |
| 39 | 0.011 | 0.074 | 0.048 | 0.007 | 0.000 | 0.133 | 0.140 | 0.015 | 0.841 | 0.004 | 0.852 | 0.148 |
| 40 | 0.011 | 0.074 | 0.048 | 0.007 | 0.000 | 0.133 | 0.140 | 0.015 | 0.841 | 0.004 | 0.852 | 0.148 |
| 41 | 0.011 | 0.074 | 0.048 | 0.007 | 0.000 | 0.133 | 0.140 | 0.015 | 0.841 | 0.004 | 0.852 | 0.148 |
| Total | 0.103 | 0.222 | 0.063 | 0.017 | 0.006 | 0.388 | 0.411 | 0.051 | 0.536 | 0.002 | 0.561 | 0.439 |
| 25 | 106 | 129 | 0 | 0 | 4 | 235 | 239 | 4 | 0 | 0 | 5 | 239 |
| 26 | 603 | 424 | 2 | 0 | 54 | 1,029 | 1,083 | 8 | 0 | 9 | 63 | 1,037 |
| 27 | 660 | 575 | 24 | 19 | 85 | 1,258 | 1,362 | 85 | 256 | 19 | 378 | 1,343 |
| 28 | 1,190 | 1,777 | 87 | 83 | 73 | 3,054 | 3,210 | 359 | 2,603 | 35 | 2,795 | 3,413 |
| 29 | 1,617 | 3,152 | 526 | 287 | 28 | 5,295 | 5,610 | 686 | 10,759 | 4 | 11,077 | 5,981 |
| 30 | 1,709 | 4,307 | 1,652 | 372 | 53 | 7,667 | 8,093 | 791 | 9,653 | 51 | 10,129 | 8,459 |
| 31 | 561 | 2,238 | 972 | 249 | 43 | 3,770 | 4,062 | 456 | 3,839 | 2 | 4,132 | 4,226 |
| 32 | 27 | 826 | 332 | 23 | 23 | 1,184 | 1,230 | 504 | 3,435 | 21 | 3,501 | 1,688 |
| 33 | 9 | 278 | 111 | 8 | 8 | 398 | 413 | 169 | 1,154 | 7 | 1,177 | 567 |
| 34 | 15 | 223 | 196 | 11 | 1 | 434 | 445 | 106 | 1,172 | 1 | 1,185 | 539 |
| 35 | 10 | 66 | 42 | 6 | 0 | 118 | 125 | 13 | 748 | 3 | 757 | 132 |
| 36 | 2 | 14 | 9 | 1 | 0 | 25 | 26 | 3 | 156 | 1 | 158 | 27 |
| 37 | 0 | 2 | 1 | 0 | 0 | 4 | 4 | 0 | 26 | 0 | 26 | 5 |
| 38 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 3 | 0 |
| 39 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 |
| 40 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 41 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 6,508 | 14,010 | 3,954 | 1,060 | 370 | 24,472 | 25,902 | 3,184 | 33,804 | 152 | 35,387 | 27,656 |

Appendix C. 5. Weekly sockeye salmon abundance estimates of above border run and harvest in the Canadian fisheries in the Taku River, 2018.

| SW | Above <br> Border <br> Run | Commercial |  | $\begin{gathered} \text { Assesment/ } \\ \text { Test } \end{gathered}$ | Aboriginal | Above <br> Border <br> Escapement |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | All | Taku |  |  |  |
| 22 |  |  |  |  |  |  |
| 23 |  |  |  |  |  |  |
| 24 |  |  |  |  |  |  |
| 25 |  |  |  |  | 4 |  |
| 26 |  | 252 | 252 |  |  |  |
| 27 | 14,390 | 619 | 619 |  |  |  |
| 28 | 43,081 | 2,170 | 2,170 |  |  |  |
| 29 | 50,156 | 2,724 | 2,724 |  | 6 |  |
| 30 | 76,838 | 6,274 | 6,274 |  |  |  |
| 31 | 98,513 | 2,422 | 2,422 |  | 2 |  |
| 32 | 113,417 | 741 | 741 |  |  |  |
| 33 | 111,902 | 591 | 591 |  |  |  |
| 34 |  | 1,201 | 1,201 |  | 2 |  |
| 35 |  | 552 | 552 |  |  |  |
| 36 |  | 317 | 317 |  |  |  |
| 37 |  | 82 | 82 |  |  |  |
| 38 |  | 29 | 29 |  |  |  |
| 39 |  |  |  |  |  |  |
| 40 |  |  |  |  |  |  |
| Postseaso | 135,351 | 17,974 | 17,974 | 0 | 14 | 117,363 |
| Expanded | 136,995 | 17,974 | 17,974 | 0 | 14 | 119,007 |
| adjusted | 116,427 | 17,974 | 17,974 |  | 14 | 98,439 |

Appendix C. 6. Estimates of wild and enhanced sockeye salmon stock harvested in the Canadian commercial fishery in the Taku River by week, 2018.

| Enhanced estimates based on harvest expanations of thermally marked fish. |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | King |  |  |  |  | King |  |  |  |  |
|  | Salmon | Tatsamenie | Stikine | US | Taku | Salmon | Tatsamenie | Stikine | US | Taku |
| SW | Enhanced | Enhanced | Enhanced | Enhanced | Wild | Enhanced | Enhanced | Enhanced | Enhanced | Wild |
| 26 | 0.052 | 0.000 | 0.005 | 0.000 | 0.943 | 13 | 0 | 1 | 0 | 238 |
| 27 | 0.084 | 0.000 | 0.010 | 0.000 | 0.906 | 52 | 0 | 6 | 0 | 561 |
| 28 | 0.086 | 0.000 | 0.000 | 0.000 | 0.914 | 188 | 0 | 0 | 0 | 1,982 |
| 29 | 0.042 | 0.016 | 0.005 | 0.000 | 0.937 | 114 | 43 | 14 | 0 | 2,553 |
| 30 | 0.005 | 0.021 | 0.000 | 0.000 | 0.974 | 33 | 131 | 0 | 0 | 6,111 |
| 31 | 0.005 | 0.053 | 0.000 | 0.000 | 0.941 | 13 | 129 | 0 | 0 | 2,280 |
| 32 | 0.000 | 0.069 | 0.006 | 0.000 | 0.925 | 0 | 51 | 4 | 0 | 685 |
| 33 | 0.006 | 0.051 | 0.000 | 0.000 | 0.944 | 3 | 30 | 0 | 0 | 558 |
| 34 | 0.000 | 0.033 | 0.000 | 0.000 | 0.967 | 0 | 39 | 0 | 0 | 1,162 |
| 35 | 0.000 | 0.087 | 0.000 | 0.000 | 0.913 | 0 | 48 | 0 | 0 | 504 |
| 36 | 0.000 | 0.093 | 0.000 | 0.000 | 0.907 | 0 | 30 | 0 | 0 | 287 |
| 37 | 0.000 | 0.086 | 0.000 | 0.000 | 0.914 | 0 | 7 | 0 | 0 | 75 |
| 38 | 0.000 | 0.000 | 0.000 | 0.000 | 1.000 | 0 | 0 | 0 | 0 | 29 |
| Total | 0.023 | 0.028 | 0.001 | 0.000 | 0.947 | 416 | 508 | 26 | 0 | 17,024 |

Appendix C. 7. Weekly coho salmon harvest in the traditional Alaskan District 111 and StatArea 111-32 (Taku Inlet), commercial drift gillnet fishery, 2018.

| SW | D111 Total |  |  | 111-32 |
| :---: | :---: | :---: | :---: | :---: |
|  | Total | Hatchery | Wild | Total |
| 25 | 6 |  | 6 | 6 |
| 26 | 8 |  | 8 | 6 |
| 27 | 19 |  | 19 | 17 |
| 28 | 53 |  | 53 | 49 |
| 29 | 376 |  | 376 | 274 |
| 30 | 1,724 |  | 1,724 | 1,163 |
| 31 | 1,775 |  | 1,775 | 1,339 |
| 32 | 1,565 |  | 1,565 | 856 |
| 33 | 727 | 106 | 621 | 494 |
| 34 | 3,098 | 1,603 | 1,495 | 2,274 |
| 35 | 4,471 | 1,834 | 2,637 | 4,164 |
| 36 | 12,252 | 5,043 | 7,209 | 12,252 |
| 37 | 6,633 | 4,360 | 2,273 | 6,237 |
| 38 | 2,736 | 883 | 1,853 | 2,736 |
| 39 | 165 | 37 | 128 | 165 |
| 40 |  |  | 0 |  |
| 41 |  |  | 0 |  |
| Total | 35,608 | 13,866 | 21,742 | 32,032 |

Appendix C. 8. Weekly coho salmon abundance estimates of above border run and harvest in the Canadian fisheries in the Taku River, 2018.

| SW | Above border Run | Harvest |  |  |  | Above border <br> Escapement |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Commercial | Aboriginal | Recreational | Assesment/test |  |
| 18 |  |  |  |  |  |  |
| 19 |  |  |  |  |  |  |
| 20 |  |  |  |  |  |  |
| 21 |  |  |  |  |  |  |
| 22 |  |  |  |  |  |  |
| 23 |  |  |  |  |  |  |
| 24 |  |  |  |  |  |  |
| 25 |  |  |  |  |  |  |
| 26 |  | 1 |  |  |  |  |
| 27 |  | 3 |  |  |  |  |
| 28 |  | 90 |  |  |  |  |
| 29 |  | 224 |  |  |  |  |
| 30 |  | 711 |  |  |  |  |
| 31 |  | 347 |  |  |  |  |
| 32 |  | 330 | 1 |  |  |  |
| 33 | 15,894 | 552 |  |  |  |  |
| 34 | 29,256 | 1,513 | 1 |  |  |  |
| 35 | 33,173 | 1,676 |  |  |  |  |
| 36 | 37,417 | 2,262 |  |  |  |  |
| 37 | 52,038 | 1,243 |  |  |  |  |
| 38 | 56,698 | 551 |  |  |  |  |
| 39 | 57,628 |  |  |  |  |  |
| 40 | 60,678 |  |  |  |  |  |
| 41 |  |  |  |  |  |  |
| 42 |  |  |  |  |  |  |
| Before SW34 |  | 2,258 |  |  |  |  |
| SW34 to end |  | 7,245 |  |  |  |  |
| Postseason Estimate | 60,678 | 9,503 | 2 | 0 | 0 | 51,173 |

Appendix C. 9. Weekly effort in the Alaskan traditional District 111 and StatArea 11132 (Taku Inlet), commercial drift gillnet fishery, 2018.

| SW | Start Date | D111 |  |  | D111-32 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Days |  |  | Days |  |
|  |  | Boats | Open | Days | Boats | Open | Days |
| 25 | 17-Jun | 28 | 2.0 | 56 | 25 | 2.0 | 50 |
| 26 | 24-Jun | 64 | 2.0 | 128 | 56 | 2.0 | 112 |
| 27 | 1-Jul | 119 | 2.0 | 238 | 104 | 2.0 | 208 |
| 28 | 8 -Jul | 154 | 3.0 | 462 | 121 | 2.0 | 242 |
| 29 | 15-Jul | 150 | 4.0 | 600 | 94 | 3.0 | 282 |
| 30 | 22-Jul | 123 | 4.0 | 492 | 88 | 3.0 | 264 |
| 31 | 29-Jul | 75 | 4.0 | 300 | 44 | 4.0 | 176 |
| 32 | 5-Aug | 68 | 4.0 | 272 | 29 | 3.0 | 87 |
| 33 | 12-Aug | 25 | 3.0 | 75 | 16 | 2.0 | 32 |
| 34 | 20-Aug | 28 | 3.0 | 84 | 20 | 3.0 | 60 |
| 35 | 26-Aug | 24 | 3.0 | 72 | 23 | 3.0 | 69 |
| 36 | 2-Sep | 34 | 4.0 | 136 | 34 | 4.0 | 136 |
| 37 | 9-Sep | 34 | 3.0 | 102 | 32 | 3.0 | 96 |
| 38 | 16-Sep | 28 | 2.0 | 56 | 28 | 2.0 | 56 |
| 39 | 23-Sep | 7 | 1.0 | 7 | 7 | 1.0 | 7 |
| 40 | 30-Sep |  |  | 0 |  |  | 0 |
| 41 | 7-Oct |  |  | 0 |  |  | 0 |
| Total |  |  | 44.0 | 3,080 |  | 39.0 | 1,877 |

Appendix C. 10. Weekly effort in the Canadian commercial and assessment fisheries in the Taku River, 2018.

| SW |  | Commercial |  |  | Assesment/test |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Start <br> Date | Average Permits | $\begin{gathered} \text { Days } \\ \text { Fished } \end{gathered}$ | Permit Days | Average Permits | Days <br> Fished | $\begin{array}{r} \text { Permit } \\ \text { Days } \\ \hline \end{array}$ |
| 18 | 29-Apr |  |  |  |  |  |  |
| 19 | 6-May |  |  |  |  |  |  |
| 20 | 13-May |  |  |  |  |  |  |
| 21 | 20-May |  |  |  |  |  |  |
| 22 | 27-May |  |  |  |  |  |  |
| 23 | 3-Jun |  |  |  |  |  |  |
| 24 | 10-Jun |  |  |  |  |  |  |
| 25 | 17-Jun |  |  |  |  |  |  |
| 26 | 24-Jun | 4.00 | 1.00 | 4.00 |  |  |  |
| 27 | 1-Jul | 6.50 | 2.00 | 13.00 |  |  |  |
| 28 | 8 -Jul | 6.33 | 3.00 | 19.00 |  |  |  |
| 29 | 15-Jul | 6.67 | 3.00 | 20.00 |  |  |  |
| 30 | 22-Jul | 8.00 | 4.00 | 32.00 |  |  |  |
| 31 | 29-Jul | 7.33 | 3.00 | 22.00 |  |  |  |
| 32 | 5-Aug | 7.00 | 3.00 | 21.00 |  |  |  |
| 33 | 12-Aug | 8.00 | 2.00 | 16.00 |  |  |  |
| 34 | 19-Aug | 8.00 | 3.00 | 24.00 |  |  |  |
| 35 | 26-Aug | 7.50 | 4.00 | 30.00 |  |  |  |
| 36 | 2 -Sep | 6.00 | 4.00 | 24.00 |  |  |  |
| 37 | 9-Sep | 2.00 | 4.00 | 8.00 |  |  |  |
| 38 | 16-Sep | 2.00 | 2.00 | 4.00 |  |  |  |
| 39 | 23-Sep |  |  |  |  |  |  |
| 40 | 30-Sep |  |  |  |  |  |  |
| 41 | 7-Oct |  |  |  |  |  |  |
| Total |  |  | 38 | 237 |  | 0 | 0 |

Appendix C. 11. Daily counts of adult sockeye salmon passing through Tatsamenie Lake weir, 2018.


A Broodstock included 670 females and 625 males from which gametes were collected,
5 female and 4 male mortalities, and 325 females and 71 males which were held and released unspawned.
The spawning success of the released fish is not known.

Appendix C. 12. Daily counts of adult sockeye salmon passing through Little Trapper Lake weir, 2018.

| Date | Count | Cumulative |  |
| :---: | :---: | :---: | :---: |
|  |  | Count | Percent |
| 22-Jul | Weir installed |  |  |
| 23-Jul | 0 | 0 | 0.0 |
| 24-Jul | 0 | 0 | 0.0 |
| 25-Jul | 0 | 0 | 0.0 |
| 26-Jul | 0 | 0 | 0.0 |
| 27-Jul | 0 | 0 | 0.0 |
| 28-Jul | 0 | 0 | 0.0 |
| 29-Jul | 0 | 0 | 0.0 |
| 30-Jul | 67 | 67 | 0.8 |
| 31-Jul | 151 | 218 | 2.6 |
| 1-Aug | 275 | 493 | 6.0 |
| 2-Aug | 143 | 636 | 7.7 |
| 3-Aug | 66 | 702 | 8.5 |
| 4-Aug | 363 | 1,065 | 12.9 |
| 5-Aug | 88 | 1,153 | 14.0 |
| 6-Aug | 11 | 1,164 | 14.1 |
| 7-Aug | 40 | 1,204 | 14.6 |
| 8-Aug | 3 | 1,207 | 14.6 |
| 9-Aug | 101 | 1,308 | 15.9 |
| 10-Aug | 107 | 1,415 | 17.2 |
| 11-Aug | 117 | 1,532 | 18.6 |
| 12-Aug | 44 | 1,576 | 19.1 |
| 13-Aug | 35 | 1,611 | 19.5 |
| 14-Aug | 150 | 1,761 | 21.3 |
| 15-Aug | 21 | 1,782 | 21.6 |
| 16-Aug | 96 | 1,878 | 22.8 |
| 17-Aug | 34 | 1,912 | 23.2 |
| 18-Aug | 3 | 1,915 | 23.2 |
| 19-Aug | 1,200 | 3,115 | 37.8 |
| 20-Aug | 1,270 | 4,385 | 53.2 |
| 21-Aug | 997 | 5,382 | 65.2 |
| 22-Aug | 637 | 6,019 | 73.0 |
| 23-Aug | 560 | 6,579 | 79.8 |
| 24-Aug | 173 | 6,752 | 81.9 |
| 25-Aug | 316 | 7,068 | 85.7 |
| 26-Aug | 172 | 7,240 | 87.8 |
| 27-Aug | 133 | 7,373 | 89.4 |
| 28-Aug | 120 | 7,493 | 90.8 |
| 29-Aug | 57 | 7,550 | 91.5 |
| 30-Aug | 56 | 7,606 | 92.2 |
| 31-Aug | 57 | 7,663 | 92.9 |
| 1-Sep | 37 | 7,700 | 93.3 |
| 2-Sep | 57 | 7,757 | 94.0 |
| 3-Sep | 10 | 7,767 | 94.2 |
| 4-Sep | 71 | 7,838 | 95.0 |
| 5-Sep | 86 | 7,924 | 96.1 |
| 6-Sep | 42 | 7,966 | 96.6 |
| 7-Sep | 11 | 7,977 | 96.7 |
| 8-Sep | 5 | 7,982 | 96.8 |
| 9-Sep | 100 | 8,082 | 98.0 |
| 10-Sep | 1 | 8,083 | 98.0 |
| 11-Sep | 45 | 8,128 | 98.5 |
| 12-Sep | 121 | 8,249 | 100.0 |
| 14-Sep Weir removed |  |  |  |
|  |  | Total | Wild enhanced |
| Holding below weir |  | 0 |  |
| Escapement to lake |  | 8,249 |  |
| Outlet spawners |  | 0 |  |
| otolith samples |  | 0 |  |
| Broodstock |  | 0 |  |
| Natural Spawners |  | 8,249 |  |

Appendix C. 13. Daily counts of adult sockeye salmon passing through the King Salmon Lake weir, 2018.

| Date | Count | Cumulative |  |
| :---: | :---: | :---: | :---: |
|  |  | Count | Percent |
| 8-Jul | Weir installed |  |  |
| 12-Jul | 18 | 18 | 0.5 |
| 13-Jul | 21 | 39 | 1.2 |
| 14-Jul | 19 | 58 | 1.7 |
| 15-Jul | 77 | 135 | 4.0 |
| 16-Jul | 30 | 165 | 4.9 |
| 17-Jul | 58 | 223 | 6.6 |
| 18-Jul | 41 | 264 | 7.8 |
| 19-Jul | 116 | 380 | 11.3 |
| 20-Jul | 29 | 409 | 12.1 |
| 21-Jul | 284 | 693 | 20.5 |
| 22-Jul | 221 | 914 | 27.1 |
| 23-Jul | 295 | 1,209 | 35.8 |
| 24-Jul | 1,582 | 2,791 | 82.7 |
| 25-Jul | 0 | 2,791 | 82.7 |
| 26-Jul | 1 | 2,792 | 82.7 |
| 27-Jul | 21 | 2,813 | 83.3 |
| 28-Jul | 0 | 2,813 | 83.3 |
| 29-Jul | 0 | 2,813 | 83.3 |
| 30-Jul | 0 | 2,813 | 83.3 |
| 31-Jul | 0 | 2,813 | 83.3 |
| 1-Aug | 40 | 2,853 | 84.5 |
| 2-Aug | 0 | 2,853 | 84.5 |
| 3-Aug | 0 | 2,853 | 84.5 |
| 4-Aug | 20 | 2,873 | 85.1 |
| 5-Aug | 0 | 2,873 | 85.1 |
| 6-Aug | 50 | 2,923 | 86.6 |
| 7-Aug | 0 | 2,923 | 86.6 |
| 8-Aug | 0 | 2,923 | 86.6 |
| 9-Aug | 30 | 2,953 | 87.5 |
| 10-Aug | 0 | 2,953 | 87.5 |
| 11-Aug | 3 | 2,956 | 87.6 |
| 12-Aug | 0 | 2,956 | 87.6 |
| 13-Aug | 0 | 2,956 | 87.6 |
| 14-Aug | 0 | 2,956 | 87.6 |
| 15-Aug | 7 | 2,963 | 87.8 |
| 16-Aug | 20 | 2,983 | 88.4 |
| 17-Aug | 0 | 2,983 | 88.4 |
| 18-Aug | 0 | 2,983 | 88.4 |
| 19-Aug | 0 | 2,983 | 88.4 |
| 20-Aug | 0 | 2,983 | 88.4 |
| 21-Aug | 0 | 2,983 | 88.4 |
| 22-Aug | 0 | 2,983 | 88.4 |
| 23-Aug | 24 | 3,007 | 89.1 |
| 24-Aug | 185 | 3,192 | 94.6 |
| 25-Aug | 92 | 3,284 | 97.3 |
| 26-Aug | 0 | 3,284 | 97.3 |
| 27-Aug | 52 | 3,336 | 98.8 |
| 28-Aug | 15 | 3,351 | 99.3 |
| 29-Aug | 0 | 3,351 | 99.3 |
| 30-Aug | 0 | 3,351 | 99.3 |
| 31-Aug | 0 | 3,351 | 99.3 |
| 1-Sep | 5 | 3,356 | 99.4 |
| 2-Sep | 19 | 3,375 | 100.0 |
| 3-Sep | 0 | 3,375 | 100.0 |
| 4-Sep | Weir removed |  |  |
| Total | 3,375 |  |  |
| Escapement to lake |  | 3,375 |  |
| Broodstock |  |  |  |
| Spawners |  | 3,375 |  |
| Helicopter survey |  |  |  |

Appendix C. 14. Daily counts of adult sockeye salmon passing through the Kuthai Lake weir, 2018.

| Date | Count | Cumulative |  |
| :---: | :---: | :---: | :---: |
|  |  | Count | Percent |
| 8-Jul | Weir installed |  |  |
| $9-\mathrm{Jul}$ | 0 | 0 | 0.0 |
| 10-Jul | 0 | 0 | 0.0 |
| 11-Jul | 0 | 0 | 0.0 |
| 12-Jul | 0 | 0 | 0.0 |
| 13-Jul | 0 | 0 | 0.0 |
| 14-Jul | 0 | 0 | 0.0 |
| 15-Jul | 0 | 0 | 0.0 |
| 16-Jul | 0 | 0 | 0.0 |
| 17-Jul | 0 | 0 | 0.0 |
| 18-Jul | 0 | 0 | 0.0 |
| 19-Jul | 0 | 0 | 0.0 |
| 20-Jul | 0 | 0 | 0.0 |
| 21-Jul | 0 | 0 | 0.0 |
| 22-Jul | 0 | 0 | 0.0 |
| 23-Jul | 0 | 0 | 0.0 |
| 24-Jul | 0 | 0 | 0.0 |
| 25-Jul | 0 | 0 | 0.0 |
| 26-Jul | 0 | 0 | 0.0 |
| 27-Jul | 0 | 0 | 0.0 |
| 28-Jul | 0 | 0 | 0.0 |
| 29-Jul | 0 | 0 | 0.0 |
| 30-Jul | 0 | 0 | 0.0 |
| 31-Jul | 0 | 0 | 0.0 |
| 1-Aug | 0 | 0 | 0.0 |
| 2-Aug | 0 | 0 | 0.0 |
| 3-Aug | 0 | 0 | 0.0 |
| 4-Aug | 1 | 1 | 7.7 |
| 5-Aug | 3 | 4 | 30.8 |
| 6-Aug | 8 | 12 | 92.3 |
| 7-Aug | 0 | 12 | 92.3 |
| 8-Aug | 0 | 12 | 92.3 |
| 9-Aug | 0 | 12 | 92.3 |
| 10-Aug | 0 | 12 | 92.3 |
| 11-Aug | 0 | 12 | 92.3 |
| 12-Aug | 0 | 12 | 92.3 |
| 13-Aug | 0 | 12 | 92.3 |
| 14-Aug | 0 | 12 | 92.3 |
| 15-Aug | 0 | 12 | 92.3 |
| 16-Aug | 0 | 12 | 92.3 |
| 17-Aug | 0 | 12 | 92.3 |
| 18-Aug | 0 | 12 | 92.3 |
| 19-Aug | 0 | 12 | 92.3 |
| 20-Aug | 0 | 12 | 92.3 |
| 21-Aug | 0 | 12 | 92.3 |
| 22-Aug | 0 | 12 | 92.3 |
| 23-Aug | 0 | 12 | 92.3 |
| 24-Aug | 0 | 12 | 92.3 |
| 25-Aug | 0 | 12 | 92.3 |
| 26-Aug | 0 | 12 | 92.3 |
| 27-Aug | 0 | 12 | 92.3 |
| 28-Aug | 0 | 12 | 92.3 |
| 29-Aug | 0 | 12 | 92.3 |
| 30-Aug | 0 | 12 | 92.3 |
| 31-Aug | 1 | 13 | 100.0 |
| 1-Sep | 0 | 13 | 100.0 |
| 2-Sep | 0 | 13 | 100.0 |
| 3-Sep | 0 | 13 | 100.0 |
| 4-Sep | 0 | 13 | 100.0 |
| 5-Sep | Weir removed |  |  |
| Total co |  | 13 |  |
| Harvest above weir |  |  |  |
| Escapem |  | 13 |  |


| Date | Count (all sizes) |  |  | Cumulative Count |  | Size (sex combined) |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Female | Male Unknown | Combined | Count | Percent | Large | nonlarge | unknown |
| 3-Aug |  |  | 0 | 0 | 0.0 |  |  |  |
| 4-Aug |  |  | 0 | 0 | 0.0 |  |  |  |
| 5-Aug |  |  | 0 | 0 | 0.0 |  |  |  |
| 6-Aug |  |  | 0 | 0 | 0.0 |  |  |  |
| 7-Aug |  |  | 0 | 0 | 0.0 |  |  |  |
| 8-Aug |  |  | 0 | 0 | 0.0 |  |  |  |
| 9-Aug |  |  | 0 | 0 | 0.0 |  |  |  |
| 10-Aug |  |  | 0 | 0 | 0.0 |  |  |  |
| 11-Aug |  |  | 0 | 0 | 0.0 |  |  |  |
| 12-Aug | 1 | 1 | 2 | 2 | 2.7 | 1 | 1 |  |
| 13-Aug |  | 2 | 2 | 4 | 5.4 |  | 2 |  |
| 14-Aug |  | 1 | 1 | 5 | 6.8 |  | 1 |  |
| 15-Aug | 1 | 1 | 2 | 7 | 9.5 | 1 | 1 |  |
| 16-Aug |  | 4 | 4 | 11 | 14.9 | 1 | 3 |  |
| 17-Aug |  | 11 | 11 | 22 | 29.7 | 2 | 9 |  |
| 18-Aug | 1 | 3 | 4 | 26 | 35.1 | 3 | 1 |  |
| 19-Aug | 1 | 3 | 4 | 30 | 40.5 | 1 | 3 |  |
| 20-Aug |  | $8 \quad 1$ | 9 | 39 | 52.7 |  | 8 | 1 |
| 21-Aug | 1 | 13 1 | 15 | 54 | 73.0 | 1 | 14 |  |
| 22-Aug | 1 | 5 | 6 | 60 | 81.1 | 1 | 5 |  |
| 23-Aug |  | 6 | 6 | 66 | 89.2 |  | 6 |  |
| 24-Aug |  | 2 | 2 | 68 | 91.9 |  | 2 |  |
| 25-Aug | 1 | 3 | 4 | 72 | 97.3 | 1 | 3 |  |
| 26-Aug | 1 | 1 | 2 | 74 | 100.0 | 1 | 1 |  |
| 27-Aug | Weir removed |  |  |  |  |  |  |  |
| Total | 8 | $64 \quad 2$ | 74 |  |  | 13 | 60 | 1 |

Appendix D. 1. All historic harvest and effort of salmon in the D111 gillnet fishery,

| 1960-2018. |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Chinook | Sockeye | Coho | Pink | Chum | Boat Day | sDays open |
| 1960 | 8,810 | 42,819 | 22,374 | 33,155 | 41,852 |  | 60 |
| 1961 | 7,434 | 45,981 | 15,486 | 41,455 | 24,433 |  | 62 |
| 1962 | 5,931 | 36,745 | 15,661 | 17,280 | 20,635 |  | 52 |
| 1963 | 2,652 | 24,119 | 10,855 | 21,692 | 20,114 |  | 54 |
| 1964 | 2,509 | 34,140 | 29,315 | 26,593 | 12,853 |  | 56 |
| 1965 | 4,170 | 27,569 | 32,667 | 2,768 | 11,533 |  | 63 |
| 1966 | 4,829 | 33,925 | 26,065 | 23,833 | 35,133 |  | 64 |
| 1967 | 5,417 | 17,735 | 40,391 | 12,372 | 22,834 |  | 53 |
| 1968 | 4,904 | 19,501 | 39,103 | 67,365 | 21,890 |  | 60 |
| 1969 | 6,986 | 41,222 | 10,802 | 74,178 | 15,046 | 1,518 | 42 |
| 1970 | 3,357 | 50,862 | 44,569 | 196,237 | 110,621 | 2,688 | 53 |
| 1971 | 6,945 | 66,261 | 41,588 | 31,296 | 90,964 | 3,053 | 55 |
| 1972 | 10,949 | 80,911 | 49,609 | 144,237 | 148,432 | 3,103 | 51 |
| 1973 | 9,799 | 85,402 | 35,453 | 58,186 | 109,245 | 3,286 | 41 |
| 1974 | 2,908 | 38,726 | 38,667 | 57,820 | 86,692 | 2,315 | 30 |
| 1975 | 2,182 | 32,550 | 1,185 | 9,567 | 2,678 | 1,084 | 16 |
| 1976 | 1,757 | 62,174 | 41,664 | 14,977 | 81,972 | 1,914 | 25 |
| 1977 | 1,068 | 72,030 | 54,929 | 88,904 | 60,964 | 2,258 | 27 |
| 1978 | 1,926 | 55,398 | 31,944 | 51,385 | 36,254 | 2,174 | 26 |
| 1979 | 3,701 | 122,148 | 16,194 | 152,836 | 61,194 | 2,269 | 29 |
| 1980 | 2,251 | 123,451 | 41,677 | 296,622 | 192,793 | 4,123 | 31 |
| 1981 | 1,721 | 49,942 | 26,711 | 254,856 | 76,438 | 2,687 | 30 |
| 1982 | 3,014 | 83,722 | 29,073 | 109,270 | 37,584 | 2,433 | 36 |
| 1983 | 888 | 31,821 | 21,455 | 66,239 | 15,264 | 1,274 | 33 |
| 1984 | 1,773 | 77,233 | 33,836 | 145,971 | 86,764 | 2,757 | 53 |
| 1985 | 2,632 | 88,093 | 55,518 | 311,305 | 106,900 | 3,264 | 48 |
| 1986 | 2,584 | 73,061 | 30,512 | 16,568 | 58,792 | 2,129 | 33 |
| 1987 | 2,076 | 75,212 | 35,219 | 363,439 | 121,660 | 2,514 | 35 |
| 1988 | 1,777 | 38,901 | 44,818 | 157,732 | 140,038 | 2,135 | 32 |
| 1989 | 1,811 | 74,019 | 51,812 | 180,639 | 36,979 | 2,333 | 41 |
| 1990 | 3,480 | 126,884 | 67,530 | 153,126 | 145,799 | 3,188 | 38 |
| 1991 | 3,214 | 109,471 | 126,576 | 74,170 | 160,422 | 4,145 | 57 |
| 1992 | 2,341 | 135,411 | 172,662 | 314,445 | 112,527 | 4,550 | 50 |
| 1993 | 7,159 | 171,427 | 65,539 | 29,216 | 167,902 | 3,827 | 43 |
| 1994 | 5,047 | 105,893 | 188,501 | 401,525 | 214,171 | 5,078 | 66 |
| 1995 | 4,660 | 103,362 | 83,606 | 41,228 | 349,949 | 4,034 | 49 |
| 1996 | 2,659 | 199,014 | 33,633 | 12,660 | 354,463 | 3,229 | 46 |
| 1997 | 2,804 | 94,745 | 3,515 | 51,424 | 176,864 | 2,107 | 33 |
| 1998 | 794 | 69,677 | 28,713 | 168,283 | 296,111 | 3,070 | 48 |
| 1999 | 1,949 | 79,686 | 17,608 | 59,316 | 429,359 | 2,841 | 59 |
| 2000 | 1,154 | 185,956 | 7,828 | 58,696 | 669,994 | 2,919 | 40 |
| 2001 | 1,698 | 293,043 | 22,646 | 123,026 | 237,122 | 4,731 | 54 |
| 2002 | 1,850 | 204,103 | 40,464 | 78,624 | 231,936 | 4,095 | 62 |
| 2003 | 1,467 | 238,160 | 24,338 | 114,166 | 170,874 | 3,977 | 78 |
| 2004 | 2,345 | 283,756 | 45,769 | 154,640 | 131,757 | 3,342 | 63 |
| 2005 | 23,301 | 106,048 | 21,289 | 182,778 | 93,700 | 3,734 | 68 |
| 2006 | 11,261 | 262,527 | 60,145 | 191,992 | 382,952 | 4,052 | 89 |
| 2007 | 1,452 | 112,241 | 22,394 | 100,375 | 590,169 | 3,505 | 64 |
| 2008 | 2,193 | 116,693 | 37,349 | 90,162 | 774,095 | 3,116 | 49 |
| 2009 | 6,800 | 62,070 | 36,615 | 56,801 | 918,350 | 3,438 | 62 |
| 2010 | 1,685 | 76,607 | 62,241 | 132,785 | 488,898 | 2,832 | 54 |
| 2011 | 2,510 | 163,896 | 28,574 | 344,766 | 667,929 | 3,481 | 46 |
| 2012 | 1,291 | 140,898 | 24,115 | 193,969 | 566,741 | 2,608 | 43 |
| 2013 | 1,224 | 207,231 | 51,441 | 127,343 | 726,849 | 3,655 | 62 |
| 2014 | 1,471 | 126,738 | 54,186 | 29,190 | 291,409 | 3,343 | 65 |
| 2015 | 1,150 | 83,431 | 23,572 | 296,575 | 475,456 | 2,391 | 44 |
| 2016 | 595 | 215,049 | 35,037 | 46,604 | 448,284 | 2,850 | 56 |
| 2017 | 1,086 | 113,818 | 16,002 | 230,243 | 885,694 | 3,384 | 43 |
| 2018 | 783 | 92,889 | 35,930 | 24,300 | 517,812 | 3,080 | 44 |
| average |  |  |  |  |  |  |  |
| 60-17 | 3,698 | 101,464 | 40,880 | 118,740 | 224,971 | 3,037 |  |
| 08-17 | 2,001 | 130,643 | 36,913 | 154,844 | 624,371 | 3,110 |  |

Appendix D. 2. District 111 total Chinook salmon harvest in the US gillnet, sport, and personal use fisheries, 2005-2018.
Reference only mostly based on CWT--See Appendix D3 for estimates of Taku River large Chinook salmon.

|  | PU | Sport |  |  | Drift Gillnet |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Large |  | Large | Large non-Taku |  | Large | Large non-Taku | nonlarge |
| 2005 | 32 |  | 2,967 |  |  | 17,952 | 850 | 5,056 |
| 2006 | 18 |  | 2,396 |  | 10,233 | 808 | 948 |  |
| 2007 | 22 |  | 1,411 |  |  | 616 | 32 | 619 |
| 2008 | 46 |  | 1,255 |  | 920 | 332 | 893 |  |
| 2009 | 25 |  | 1,287 |  | 5,673 | 814 | 886 |  |
| 2010 | 36 |  | 2,173 | 849 |  | 975 | 235 | 308 |
| 2011 | 48 |  | 1,261 | 198 |  | 641 | 86 | 941 |
| 2012 | 34 |  | 1,407 | 449 |  | 762 | 68 | 309 |
| 2013 | 20 |  | 2,171 | 1,327 |  | 473 | 90 | 496 |
| 2014 | 21 | 2,045 | 927 |  | 769 | 124 | 375 |  |
| 2015 | 29 | 953 |  | 493 | 82 | 392 |  |  |
| 2016 | 30 | 1,081 | 444 |  | 212 | 80 | 157 |  |
| 2017 | 1 | 1,120 | 1,240 |  | 309 | 73 | 566 |  |
| 2018 | 11 | 1,244 | 746 |  | 260 | 241 | 220 |  |
| Averages |  |  |  |  |  |  |  |  |
| $08-17$ | 28 |  |  |  |  | 183 | 540 |  |

Appendix D. 3. Annual estimates of Taku River large Chinook salmon in the D111 fisheries, 2005-2018.
Estimates based on GSI for gillnet and sport; troll is CWT.
For detailed GSI stock comp estimates see Appendix G. 6.

| Year | PU | Sport | Gillnet | Troll | Total large Taku |
| :--- | :---: | :---: | :---: | :---: | :---: |
| 2010 |  | 0.453 | 0.539 |  |  |
| 2011 |  | 0.454 | 0.809 |  |  |
| 2012 |  | 0.494 | 0.876 |  |  |
| 2013 |  | 0.125 | 0.753 |  |  |
| 2014 |  | 0.396 | 0.635 | 0.592 |  |
| 2015 |  | 0.486 | 0.749 |  |  |
| 2016 |  | 0.587 | 0.464 |  |  |
| 2017 |  | 0.031 | 0.118 |  |  |
| 2018 |  | 0.007 |  |  |  |
| Average |  |  | 0.68 |  |  |
| $10-17$ |  | 0.38 | 16,490 | 21 | 11 |
| 2005 | 32 | 2,476 | 9,257 | 0 | 11,334 |
| 2006 | 18 | 2,048 | 303 | 0 | 1,359 |
| 2007 | 22 | 1,034 | 445 | 2 | 5,123 |
| 2008 | 46 | 632 | 4,609 | 0 | 1,546 |
| 2009 | 25 | 673 | 526 | 0 | 1,139 |
| 2010 | 36 | 984 | 518 | 8 | 1,405 |
| 2011 | 48 | 573 | 668 | 0 | 648 |
| 2012 | 34 | 695 | 356 | 0 | 1,320 |
| 2013 | 20 | 271 | 489 | 0 | 784 |
| 2014 | 21 | 810 | 292 | 0 | 824 |
| 2015 | 29 | 463 | 159 | 0 | 179 |
| 2016 | 30 | 635 | 34 | 143 | 0 |
| 2017 | 1 | 9 | 31 | 5 | 50 |
| 2018 | 11 |  |  |  | 1,421 |
| Averages |  | 619 |  |  |  |
| $08-17$ | 28 |  |  |  |  |

Appendix D. 4. Annual Chinook Salmon harvest in the Canadian fisheries in the Taku River, 1979-2018.

|  | Commerical |  | Commerical mortality |  | Aboriginal |  | Assesment/Test |  |  | $\begin{gathered} \text { Rec } \\ \text { Large } \end{gathered}$ | $\begin{gathered} \hline \text { Total } \\ \text { All Large } \\ \hline \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Large | nonlarge | Large | nonlarge | Large | nonlarge | Large | nonlarge | released large |  |  |
| 1979 | 97 |  |  |  |  |  |  |  |  | 300 | 397 |
| 1980 | 225 |  |  |  | 85 |  |  |  |  | 300 | 610 |
| 1981 | 159 |  |  |  |  |  |  |  |  | 300 | 459 |
| 1982 | 54 |  |  |  |  |  |  |  |  | 300 | 354 |
| 1983 | 156 | 400 |  |  | 9 |  |  |  |  | 300 | 465 |
| 1984 | 294 | 221 |  |  | 0 |  |  |  |  | 300 | 594 |
| 1985 | 326 | 24 |  |  | 4 |  |  |  |  | 300 | 630 |
| 1986 | 275 | 77 |  |  | 10 |  |  |  |  | 300 | 585 |
| 1987 | 127 | 106 |  |  | 0 |  |  |  |  | 300 | 427 |
| 1988 | 555 | 186 |  |  | 27 |  | 72 |  |  | 300 | 954 |
| 1989 | 895 | 139 |  |  | 6 |  | 31 |  |  | 300 | 1,232 |
| 1990 | 1,258 | 128 |  |  | 0 |  | 48 |  |  | 300 | 1,606 |
| 1991 | 1,177 | 432 |  |  | 0 |  | 0 |  |  | 300 | 1,477 |
| 1992 | 1,445 | 147 |  |  | 121 |  | 0 |  |  | 300 | 1,866 |
| 1993 | 1,619 | 171 |  |  | 25 |  | 0 |  |  | 300 | 1,944 |
| 1994 | 2,065 | 235 |  |  | 119 |  | There was | Canadian | ho test fishery | 300 | 2,484 |
| 1995 | 1,577 | 298 |  |  | 70 |  | There was | Canadian con | o test fishery | 105 | 1,752 |
| 1996 | 3,331 | 144 |  |  | 63 |  | There was | Canadian c | o test fishery | 105 | 3,499 |
| 1997 | 2,731 | 84 |  |  | 103 |  |  |  |  | 105 | 2,939 |
| 1998 | 1,107 | 227 |  |  | 60 |  | There was | Canadian cond | o test fishery | 105 | 1,272 |
| 1999 | 908 | 257 |  |  | 50 |  | 577 | 2 | 181 | 105 | 1,640 |
| 2000 | 1,576 | 87 |  |  | 50 |  | 1,312 | 87 | 439 | 105 | 3,043 |
| 2001 | 1,458 | 118 |  |  | 125 |  | 1,175 | 229 | 871 | 105 | 2,863 |
| 2002 | 1,561 | 291 |  |  | 37 |  | 1,311 | 355 | 1,132 | 105 | 3,014 |
| 2003 | 1,894 | 547 |  |  | 277 | 237 | 1,403 | 397 |  | 105 | 3,679 |
| 2004 | 2,082 | 335 |  |  | 277 | 116 | 1,489 | 294 |  | 105 | 3,953 |
| 2005 | 7,399 | 821 |  |  | 212 |  | 0 | 0 |  | 105 | 7,716 |
| 2006 | 7,377 | 207 |  |  | 222 |  | 630 | 9 |  | 105 | 8,334 |
| 2007 | 874 | 426 |  |  | 167 | 16 | 1,396 | 302 |  | 105 | 2,542 |
| 2008 | 913 | 330 |  |  | 1 |  | 1,399 | 139 |  | 105 | 2,418 |
| 2009 | 6,759 | 1,137 |  |  | 172 | 0 | 0 | 0 |  | 105 | 7,036 |
| 2010 | 5,238 | 700 |  |  | 126 | 0 | 0 | 0 |  | 105 | 5,469 |
| 2011 | 2,342 | 514 |  |  | 150 | 21 | 680 | 134 |  | 105 | 3,277 |
| 2012 | 1,930 | 479 |  |  | 67 | 14 | 863 | 114 |  | 105 | 2,965 |
| 2013 | 579 | 653 |  |  | 54 | 16 | There we | assesmen | test fisheries | 105 | 738 |
| 2014 | 1,041 | 579 |  |  | 96 | 16 | 1,230 | 62 |  | 105 | 2,472 |
| 2015 | 868 | 305 |  |  | 117 | 12 | 1,357 | 87 |  | 105 | 2,447 |
| 2016 | 508 | 195 |  |  | 91 | 10 | 1,021 | 144 |  | 10 | 1,630 |
| 2017 | 246 | 88 |  |  | 4 | 31 | 0 | 0 |  | 0 | 250 |
| 2018 | 0 | 0 | 111 | 79 | 7 | 19 | 0 | 0 |  | 0 | 118 |
| Averages |  |  |  |  |  |  |  |  |  |  |  |
| 85-17 | 1,941 | 317 |  |  | 88 |  |  |  |  | 158 | 2,671 |
| 08-17 | 1,936 | 491 |  |  | 95 | 14 | 795 | 98 |  | 87 | 2,840 |

Appendix D. 5. Taku River large Chinook salmon run size, 1979-2018.
Run estimate does not include spawning escapements below the U.S./Canada border. U.S. harvest estimates

|  | Above Border M-R |  |  | Confidence Intervals |  | Canadian Catch/Harvest | Inriver released mortality | Above Border |  | $\begin{gathered} \text { Terminal } \\ \text { Run } \\ \hline \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Spawning <br> Escapement | adjusted | Method |  |  | Run <br> Estimate |  | U.S. <br> Harvest |  |
| 1989 | 40,329 |  | Mark-recapture | 29,263 | 51,395 |  | 1,232 |  | 41,561 |  |  |
| 1990 | 52,142 |  | Mark-recapture | 33,863 | 70,421 | 1,606 |  | 53,748 |  |  |
| 1991 | 51,645 |  | Aerial expansion | 17,072 | 86,218 | 1,477 |  | 53,122 |  |  |
| 1992 | 55,889 |  | Aerial expansion | 18,475 | 93,303 | 1,866 |  | 57,755 |  |  |
| 1993 | 66,125 |  | Aerial expansion | 21,858 | 110,392 | 1,944 |  | 68,069 |  |  |
| 1994 | 48,368 |  | Aerial expansion | 15,989 | 80,747 | 2,484 |  | 50,852 |  |  |
| 1995 | 33,805 |  | Medium expansior | 23,887 | 43,723 | 1,752 |  | 35,557 | 6,263 | 41,820 |
| 1996 | 79,019 |  | Mark-recapture | 61,285 | 96,753 | 3,499 |  | 82,518 | 6,280 | 88,798 |
| 1997 | 114,938 |  | Mark-recapture | 79,878 | 149,998 | 2,939 |  | 117,877 | 8,325 | 126,202 |
| 1998 | 31,039 |  | Aerial expansion | 10,255 | 51,823 | 1,272 |  | 32,311 | 2,605 | 34,916 |
| 1999 | 16,786 |  | Mark-recapture | 10,571 | 23,001 | 1,640 |  | 18,426 | 4,019 | 22,445 |
| 2000 | 34,997 |  | Mark-recapture | 24,407 | 45,587 | 3,043 |  | 38,040 | 3,472 | 41,512 |
| 2001 | 46,644 |  | Mark-recapture | 33,383 | 59,905 | 2,863 |  | 49,507 | 3,883 | 53,390 |
| 2002 | 55,044 |  | Mark-recapture | 33,313 | 76,775 | 3,014 |  | 58,058 | 3,282 | 61,340 |
| 2003 | 36,435 |  | Mark-recapture | 23,293 | 49,577 | 3,679 |  | 40,114 | 2,768 | 42,882 |
| 2004 | 75,032 |  | Mark-recapture | 54,883 | 95,181 | 3,953 |  | 78,985 | 3,696 | 82,681 |
| 2005 | 38,599 |  | Mark-recapture | 28,980 | 48,219 | 7,716 |  | 46,315 | 19,019 | 65,334 |
| 2006 | 42,191 |  | Mark-recapture | 31,343 | 53,040 | 8,334 |  | 50,525 | 11,334 | 61,859 |
| 2007 | 14,749 |  | Mark-recapture | 8,326 | 21,172 | 2,542 |  | 17,291 | 1,359 | 18,650 |
| 2008 | 26,645 |  | Mark-recapture | 20,744 | 32,545 | 2,418 |  | 29,063 | 1,123 | 30,186 |
| 2009 | 22,761 |  | Mark-recapture | 17,134 | 28,388 | 7,036 |  | 29,797 | 5,309 | 35,106 |
| 2010 | 28,769 |  | Mark-recapture | 23,840 | 33,698 | 5,469 |  | 34,238 | 1,546 | 35,784 |
| 2011 | 27,523 |  | Medium expansior | 19,411 | 35,635 | 3,277 |  | 30,800 | 1,139 | 31,939 |
| 2012 | 19,538 |  | Medium expansior | 15,007 | 23,851 | 2,965 |  | 22,503 | 1,405 | 23,908 |
| 2013 | 18,002 |  | Aerial expansion | 4,500 | 31,504 | 738 |  | 18,740 | 648 | 19,388 |
| 2014 | 23,532 |  | Mark-recapture | 19,187 | 27,877 | 2,472 |  | 26,004 | 1,320 | 27,324 |
| 2015 | 28,827 |  | Mark-recapture | 20,853 | 36,848 | 2,447 |  | 31,274 | 784 | 32,058 |
| 2016 | 12,381 |  | Mark-recapture | 9,513 | 15,249 | 1,630 |  | 14,011 | 824 | 14,835 |
| 2017 |  | 8,214 | Mark-recapture | 6,679 | 9,749 | 250 |  | 8,464 | 179 | 8,643 |
| 2018 |  | 7,271 | Mark-recapture | 5,745 | 8,798 | 7 | 111 | 7,389 | 50 | 7,439 |
| Averages |  |  |  |  |  |  |  |  |  |  |
| 95-17 | 36,325 |  |  |  |  | 3,259 |  | 39,583 | 3,938 | 43,522 |
| 08-17 | 21,619 |  |  |  |  | 2,870 |  | 24,489 | 1,428 | 25,917 |

Appendix D. 6. Aerial survey index escapement counts of large (3-ocean and older) Taku River Chinook salmon, 1975-2018.

| Year | Kowatua | Tatsamenie | Dudidontu | Tseta | Nakina ${ }^{\text {a }}$ |  | Nahlin | $\qquad$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | added fish for index 4 | Total fish |  |  |
| 1975 |  |  | 15 |  |  | 1,800 | 274 | 2,089 |
| 1976 | 341 | 620 | 40 |  |  | 3,000 | 725 | 4,726 |
| 1977 | 580 | 573 | 18 |  |  | 3,850 | 650 | 5,671 |
| 1978 | 490 | 550 |  | 21 |  | 1,620 | 624 | 3,284 |
| 1979 | 430 | 750 | 9 |  |  | 2,110 | 857 | 4,156 |
| 1980 | 450 | 905 | 158 |  |  | 4,500 | 1,531 | 7,544 |
| 1981 | 560 | 839 | 74 | 258 |  | 5,110 | 2,945 | 9,528 |
| 1982 | 289 | 387 | 130 | 228 |  | 2,533 | 1,246 | 4,585 |
| 1983 | 171 | 236 | 117 | 179 |  | 968 | 391 | 1,883 |
| 1984 | 279 | 616 |  | 176 |  | 1,887 | 951 | 3,733 |
| 1985 | 699 | 848 | 475 | 303 |  | 2,647 | 2,236 | 6,905 |
| 1986 | 548 | 886 | 413 | 193 |  | 3,868 | 1,612 | 7,327 |
| 1987 | 570 | 678 | 287 | 180 |  | 2,906 | 1,122 | 5,563 |
| 1988 | 1,010 | 1,272 | 243 | 66 |  | 4,500 | 1,535 | 8,560 |
| 1989 | 601 | 1,228 | 204 | 494 |  | 5,141 | 1,812 | 8,986 |
| 1990 | 614 | 1,068 | 820 | 172 |  | 7,917 | 1,658 | 12,077 |
| 1991 | 570 | 1,164 | 804 | 224 |  | 5,610 | 1,781 | 9,929 |
| 1992 | 782 | 1,624 | 768 | 313 |  | 5,750 | 1,821 | 10,745 |
| 1993 | 1,584 | 1,491 | 1,020 | 491 |  | 6,490 | 2,128 | 12,713 |
| 1994 | 410 | 1,106 | 573 | 614 |  | 4,792 | 2,418 | 9,299 |
| 1995 | 550 | 678 | 731 | 786 |  | 3,943 | 2,069 | 7,971 |
| 1996 | 1,620 | 2,011 | 1,810 | 1,201 |  | 7,720 | 5,415 | 18,576 |
| 1997 | 1,360 | 1,148 | 943 | 648 |  | 6,095 | 3,655 | 13,201 |
| 1998 | 473 | 675 | 807 | 360 |  | 2,720 | 1,294 | 5,969 |
| 1999 | 561 | 431 | 527 | 221 |  | 1,900 | 532 | 3,951 |
| 2000 | 702 | 953 | 482 | 160 |  | 2,907 | 728 | 5,772 |
| 2001 | 1,050 | 1,024 | 479 | 202 |  | 1,552 | 935 | 5,040 |
| 2002 | 945 | 1,145 | 834 | 192 |  | 4,066 | 1,099 | 8,089 |
| 2003 | 850 | 1,000 | 644 | 436 |  | 2,126 | 861 | 5,481 |
| 2004 | 828 | 1,396 | 1,036 | 906 |  | 4,091 | 1,787 | 9,138 |
| 2005 | 833 | 1,146 | 318 | 215 |  | 1,213 | 471 | 3,981 |
| 2006 | 1,180 | 908 | 395 | 199 |  | 1,900 | 955 | 5,338 |
| 2007 | 262 | 390 | 4 | 199 |  | NA | 277 | 933 |
| 2008 | 690 | 1,083 | 480 | 497 |  | 1,437 | 1,121 | 4,811 |
| 2009 | 408 | 633 | 272 | 145 |  | 1,698 | 1,033 | 4,044 |
| 2010 | 716 | 821 | 561 | 128 |  | 1,730 | 1,018 | 4,846 |
| 2011 | 377 | 917 | 301 | 128 |  | 1,380 | 808 | 3,783 |
| 2012 | 402 | 660 | 126 |  |  | 1,300 | 726 | 3,214 |
| 2013 | 708 | 438 | 166 |  | 148 | 1,623 | 527 | 3,462 |
| 2014 | 384 | 376 | 193 |  | 100 | 1,040 | 304 | 2,297 |
| 2015 | 622 | 434 | 289 |  | 134 | 1,340 | 612 | 3,297 |
| 2016 | 303 | 92 | 156 |  | 80 | 800 | 379 | 1,730 |
| 2017 | 272 | 179 | 37 |  | 30 | 301 | 134 | 923 |
| 2018 | 202 | 121 | 363 |  | 76 | 765 | 268 | 1,719 |
| 85-17 | 712 | 906 | 521 | 358 | 98 | 3,203 | 1,359 | 6,605 |
| 08-17 | 488 | 563 | 258 | 225 | 98 | 1,265 | 666 | 3,241 |
|  | 0.41 | 0.21 | 1.41 | 0.00 | 0.77 | 0.60 | 0.40 | 0.53 |

[^1]Appendix D. 7. Annual sockeye salmon harvest in the Alaskan District 111 fisheries, includes estimates of Taku wild and enhanced fish in the gillnet, seine, and personal use fisheries, 1967-2018.

| Year | D111 Gillnet harvest |  |  |  | D111 Amalga Seine harvest |  |  | PU Taku harvest |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | All | Traditional D111 Gillnet without 111-34 for stock comp |  |  | All |  |  | All Taku | Wild Taku | EnhancedTaku |
|  | D111 Gillnet | harvest | Wild Taku | EnhancedTaku | D111 Seine | Wild Taku | EnhancedTaku |  |  |  |
| 1967 | 17,735 | 15,282 |  |  |  |  |  | 103 | 103 |  |
| 1968 | 19,501 | 17,721 |  |  |  |  |  | 41 | 41 |  |
| 1969 | 41,169 | 40,053 |  |  |  |  |  | 122 | 122 |  |
| 1970 | 50,922 | 49,951 |  |  |  |  |  | 304 | 304 |  |
| 1971 | 66,181 | 62,593 |  |  |  |  |  | 512 | 512 |  |
| 1972 | 80,404 | 76,478 |  |  |  |  |  | 554 | 554 |  |
| 1973 | 85,317 | 81,149 |  |  |  |  |  | 1,227 | 1,227 |  |
| 1974 | 38,670 | 33,934 |  |  |  |  |  | 1,431 | 1,431 |  |
| 1975 | 32,513 | 32,271 |  |  |  |  |  | 170 | 170 |  |
| 1976 | 61,749 | 54,456 |  |  |  |  |  | 351 | 351 |  |
| 1977 | 70,097 | 66,844 |  |  |  |  |  |  |  |  |
| 1978 | 55,398 | 54,305 |  |  |  |  |  |  |  |  |
| 1979 | 122,148 | 115,192 |  |  |  |  |  |  |  |  |
| 1980 | 123,451 | 116,861 |  |  |  |  |  |  |  |  |
| 1981 | 49,942 | 48,912 |  |  |  |  |  |  |  |  |
| 1982 | 83,625 | 80,161 |  |  |  |  |  |  |  |  |
| 1983 | 31,821 | 31,073 |  |  |  |  |  |  |  |  |
| 1984 | 77,233 | 76,015 |  |  |  |  |  |  |  |  |
| 1985 | 88,077 | 87,550 |  |  |  |  |  | 920 | 920 |  |
| 1986 | 73,061 | 72,713 |  |  |  |  |  |  |  |  |
| 1987 | 75,212 | 76,377 |  |  |  |  |  |  |  |  |
| 1988 | 38,923 | 38,885 |  |  |  |  |  |  |  |  |
| 1989 | 74,019 | 73,991 |  |  |  |  |  | 562 | 562 |  |
| 1990 | 126,884 | 126,876 |  |  |  |  |  | 793 | 793 |  |
| 1991 | 109,877 | 111,002 |  |  |  |  |  | 800 | 800 |  |
| 1992 | 135,411 | 132,669 |  |  |  |  |  | 1,217 | 1,217 |  |
| 1993 | 171,556 | 171,373 |  |  |  |  |  | 1,201 | 1,201 |  |
| 1994 | 105,861 | 105,758 |  |  |  |  |  | 1,111 | 1,111 |  |
| 1995 | 103,377 | 103,361 | 86,929 | 4,065 |  |  |  | 990 | 950 | 40 |
| 1996 | 199,014 | 198,303 | 181,776 | 4,762 |  |  |  | 1,189 | 1,168 | 21 |
| 1997 | 94,745 | 94,486 | 76,043 | 2,031 |  |  |  | 1,053 | 1,024 | 29 |
| 1998 | 69,677 | 68,462 | 47,824 | 806 |  |  |  | 1,202 | 1,165 | 37 |
| 1999 | 79,425 | 77,515 | 61,205 | 599 |  |  |  | 1,254 | 1,236 | 18 |
| 2000 | 168,272 | 166,248 | 128,567 | 1,561 |  |  |  | 1,134 | 1,116 | 18 |
| 2001 | 290,450 | 284,786 | 194,091 | 8,880 |  |  |  | 1,462 | 1,405 | 57 |
| 2002 | 178,488 | 176,042 | 114,460 | 651 |  |  |  | 1,289 | 1,287 | 2 |
| 2003 | 205,433 | 177,903 | 134,957 | 767 |  |  |  | 1,218 | 1,208 | 10 |
| 2004 | 241,254 | 177,830 | 75,186 | 676 |  |  |  | 1,150 | 1,135 | 15 |
| 2005 | 87,254 | 71,472 | 44,360 | 579 |  |  |  | 1,150 | 1,136 | 14 |
| 2006 | 134,781 | 99,622 | 62,814 | 2,210 |  |  |  | 804 | 773 | 31 |
| 2007 | 112,241 | 107,129 | 60,879 | 3,684 |  |  |  | 566 | 508 | 58 |
| 2008 | 116,693 | 116,693 | 63,002 | 11,680 |  |  |  | 1,010 | 903 | 107 |
| 2009 | 62,070 | 62,070 | 35,121 | 240 |  |  |  | 871 | 863 | 8 |
| 2010 | 61,947 | 61,947 | 44,837 | 910 |  |  |  | 1,020 | 987 | 33 |
| 2011 | 100,400 | 100,049 | 65,090 | 5,604 |  |  |  | 1,111 | 1,024 | 87 |
| 2012 | 140,898 | 124,830 | 45,410 | 4,039 |  |  |  | 1,287 | 1,149 | 138 |
| 2013 | 207,231 | 137,739 | 84,567 | 12,779 | 4,429 | 1,054 | 372 | 1,371 | 1,152 | 219 |
| 2014 | 126,738 | 84,529 | 30,672 | 859 | 1,440 | 536 | 26 | 1,133 | 1,098 | 35 |
| 2015 | 83,431 | 51,286 | 40,904 | 194 | 912 |  |  | 955 | 948 | 7 |
| 2016 | 215,049 | 131,025 | 66,980 | 6,710 | 2,684 |  |  | 1,184 | 1,051 | 133 |
| 2017 | 113,818 | 111,409 | 67,706 | 6,042 | 2,689 |  |  | 856 | 775 | 81 |
| 2018 | 92,889 | 63,043 | 24,472 | 1,431 | 2,300 |  |  | 1,612 | 1,527 | 85 |
| Averages |  |  |  |  |  |  |  |  |  |  |
| 95-17 | 138,812 | 121,075 | 78,843 | 3,493 |  |  |  | 1,098 | 1,046 | 52 |
| 08-17 | 122,828 | 98,158 | 54,429 | 4,906 |  |  |  | 1,080 | 995 | 85 |

Appendix D. 8. Stock proportions and harvest of sockeye salmon in the traditional
Alaska District 111 commercial drift gillnet fishery, 1983-2018.


Appendix D. 9. Proportion of wild Taku River sockeye salmon in the Alaskan District
111 commercial drift gillnet harvest by week, 1983-2018.

| Year | Week |  |  |  |  |  |  |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 |  |
| 1983 |  | 0.996 | 0.842 | 0.819 | 0.663 | 0.527 | 0.836 | 0.534 | 0.719 | 0.759 | 0.755 |
| 1984 | 0.970 | 0.956 | 0.843 | 0.670 | 0.588 | 0.712 | 0.728 | 0.809 | 0.726 |  | 0.758 |
| 1985 | 0.999 | 0.986 | 0.928 | 0.974 | 0.868 | 0.706 | 0.737 | 0.826 | 0.801 |  | 0.838 |
| 1986 | 0.938 | 0.953 | 0.873 | 0.880 | 0.852 | 0.777 | 0.851 | 0.757 | 0.893 | 0.739 | 0.834 |
| 1987 |  | 0.982 | 0.901 | 0.884 | 0.948 | 0.414 | 0.619 | 0.689 | 0.841 | 0.731 | 0.720 |
| 1988 |  | 0.964 | 0.886 | 0.889 | 0.510 | 0.643 | 0.677 | 0.528 | 0.478 | 0.346 | 0.663 |
| 1989 | 0.943 | 0.989 | 0.979 | 0.852 | 0.835 | 0.641 | 0.681 | 0.919 | 0.676 |  | 0.848 |
| 1990 | 0.874 | 0.935 | 0.904 | 0.773 | 0.782 | 0.863 | 0.943 | 0.939 | 0.878 | 0.862 | 0.855 |
| 1991 | 0.988 | 0.979 | 0.953 | 0.979 | 0.951 | 0.933 | 0.936 | 0.890 | 0.885 | 0.875 | 0.941 |
| 1992 |  | 0.978 | 0.985 | 0.956 | 0.916 | 0.943 | 0.893 | 0.858 | 0.766 | 0.766 | 0.904 |
| 1993 |  | 0.961 | 0.901 | 0.837 | 0.856 | 0.781 | 0.790 | 0.829 | 0.738 | 0.706 | 0.822 |
| 1994 |  | 1.000 | 0.981 | 0.973 | 0.967 | 0.870 | 0.835 | 0.938 | 0.804 | 0.901 | 0.917 |
| 1995 | 0.942 | 0.889 | 0.903 | 0.858 | 0.872 | 0.868 | 0.761 | 0.759 | 0.705 | 0.740 | 0.841 |
| 1996 | 1.000 | 0.998 | 0.909 | 0.974 | 0.950 | 0.991 | 0.914 | 0.945 | 0.879 | 0.804 | 0.953 |
| 1997 | 0.992 | 0.970 | 0.910 | 0.926 | 0.951 | 0.939 | 0.939 | 0.925 | 0.872 | 0.906 | 0.938 |
| 1998 |  | 0.964 | 0.974 | 0.978 | 0.971 | 0.949 | 0.948 | 0.942 | 0.997 | 0.857 | 0.955 |
| 1999 |  | 0.966 | 0.988 | 0.953 | 0.934 | 0.917 | 0.878 | 0.833 | 0.732 | 0.665 | 0.917 |
| 2000 |  | 0.973 | 0.962 | 0.958 | 0.929 | 0.898 | 0.872 | 0.907 | 0.908 | 0.858 | 0.931 |
| 2001 | 0.995 | 0.998 | 0.948 | 0.888 | 0.908 | 0.930 | 0.961 | 0.945 | 0.858 | 0.858 | 0.936 |
| 2002 | 0.986 | 0.989 | 0.993 | 0.970 | 0.872 | 0.946 | 0.829 | 0.880 | 0.851 | 0.851 | 0.933 |
| 2003 | 1.000 | 0.987 | 0.961 | 0.994 | 0.970 | 0.929 | 0.883 | 0.795 | 0.236 | 0.236 | 0.931 |
| 2004 |  | 0.968 | 0.950 | 0.930 | 0.939 | 0.884 | 0.731 | 0.799 | 0.909 | 0.891 | 0.891 |
| 2005 | 0.973 | 0.973 | 0.953 | 0.947 | 0.932 | 0.924 | 0.881 | 0.885 | 0.786 | 0.767 | 0.905 |
| 2006 | 0.957 | 0.957 | 0.912 | 0.856 | 0.896 | 0.819 | 0.802 | 0.842 | 0.970 | 0.970 | 0.914 |
| 2007 | 1.000 | 0.992 | 0.934 | 0.807 | 0.716 | 0.821 | 0.879 | 0.824 | 0.812 | 0.786 | 0.925 |
| 2008 | 0.975 | 0.900 | 0.695 | 0.632 | 0.589 | 0.470 | 0.424 | 0.488 | 0.489 | 0.489 | 0.868 |
| 2009 | 0.902 | 0.902 | 0.715 | 0.683 | 0.552 | 0.542 | 0.528 | 0.416 | 0.382 | 0.382 | 0.566 |
| 2010 |  | 0.964 | 0.955 | 0.960 | 0.737 | 0.637 | 0.754 | 0.636 | 0.529 | 0.764 | 0.723 |
| 2011 |  | 0.988 | 0.943 | 0.797 | 0.766 | 0.699 | 0.683 | 0.606 | 0.365 | 0.228 | 0.651 |
| 2012 | 0.938 | 0.720 | 0.909 | 0.828 | 0.632 | 0.321 | 0.389 | 0.085 | 0.298 | 0.298 | 0.364 |
| 2013 | 0.960 | 0.927 | 0.865 | 0.794 | 0.467 | 0.477 | 0.457 | 0.457 | 0.457 | 0.457 | 0.614 |
| 2014 | 0.756 | 0.825 | 0.695 | 0.355 | 0.568 | 0.445 | 0.206 | 0.199 | 0.107 | 0.014 | 0.363 |
| 2015 | 0.000 | 0.910 | 0.969 | 0.927 | 0.830 | 0.815 | 0.823 | 0.723 | 0.693 | 0.693 | 0.798 |
| 2016 | 0.000 | 0.889 | 0.894 | 0.877 | 0.681 | 0.599 | 0.436 | 0.525 | 0.335 | 0.319 | 0.511 |
| 2017 | 0.914 | 0.930 | 0.656 | 0.640 | 0.709 | 0.608 | 0.591 | 0.512 | 0.450 | 0.510 | 0.608 |
| 2018 | 0.962 | 0.936 | 0.731 | 0.492 | 0.310 | 0.412 | 0.451 | 0.228 | 0.228 | 0.252 | 0.388 |
| Average |  |  |  |  |  |  |  |  |  |  |  |
| 83-17 |  | 0.950 | 0.902 | 0.858 | 0.803 | 0.750 | 0.746 | 0.727 | 0.681 | 0.657 | 0.797 |
| 08-17 |  | 0.895 | 0.830 | 0.749 | 0.653 | 0.561 | 0.529 | 0.465 | 0.410 | 0.415 | 0.606 |

Appendix D. 10. Annual sockeye salmon harvest estimates of wild and enhanced fish in the Canadian fisheries in the Taku River, 1979-2018.

| Year | Total harvest |  |  |  |  | Wild |  |  | Enhanced |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Commercial |  | Aborginal | Test | test released | Commercial | Aboriginal | Test | Commercial | Aboriginal | Test |
|  | Allharvest | TakuOnly |  |  |  |  |  |  |  |  |  |
| 1979 | 13,578 |  |  |  |  | 13,578 |  |  |  |  |  |
| 1980 | 22,602 |  | 150 |  |  | 22,602 | 150 |  |  |  |  |
| 1981 | 10,922 |  |  |  |  | 10,922 |  |  |  |  |  |
| 1982 | 3,144 |  |  |  |  | 3,144 |  |  |  |  |  |
| 1983 | 17,056 |  | 0 |  |  | 17,056 | 0 |  |  |  |  |
| 1984 | 27,242 |  | 50 |  |  | 27,242 | 50 |  |  |  |  |
| 1985 | 14,244 |  | 167 |  |  | 14,244 | 167 |  |  |  |  |
| 1986 | 14,739 |  | 200 |  |  | 14,739 | 200 |  |  |  |  |
| 1987 | 13,554 |  | 96 | 237 |  | 13,554 | 96 | 237 |  |  |  |
| 1988 | 12,014 |  | 245 | 708 |  | 12,014 | 245 | 708 |  |  |  |
| 1989 | 18,545 |  | 53 | 207 |  | 18,545 | 53 | 207 |  |  |  |
| 1990 | 21,100 |  | 89 | 285 |  | 21,100 | 89 | 285 |  |  |  |
| 1991 | 25,067 |  | 150 | 163 |  | 25,067 | 150 | 163 |  |  |  |
| 1992 | 29,472 |  | 352 | 38 |  | 29,472 | 352 | 38 |  |  |  |
| 1993 | 33,217 |  | 140 | 166 |  | 33,217 | 140 | 166 |  |  |  |
| 1994 | 28,762 |  | 239 |  |  | 28,762 | 239 |  |  |  |  |
| 1995 | 32,640 |  | 71 |  |  | 31,306 | 68 |  | 1,334 | 3 | 0 |
| 1996 | 41,665 |  | 360 |  |  | 40,933 | 354 |  | 732 | 6 | 0 |
| 1997 | 24,003 |  | 349 |  | 1 | 23,346 | 339 |  | 657 | 10 | 0 |
| 1998 | 19,038 |  | 239 |  |  | 18,449 | 232 |  | 589 | 7 | 0 |
| 1999 | 20,681 |  | 382 | 88 |  | 20,384 | 377 | 87 | 297 | 5 | 1 |
| 2000 | 28,009 |  | 140 | 319 |  | 27,573 | 138 | 314 | 436 | 2 | 5 |
| 2001 | 47,660 |  | 210 | 247 | 82 | 45,792 | 202 | 237 | 1,868 | 8 | 10 |
| 2002 | 31,053 |  | 155 | 518 | 161 | 31,004 | 155 | 517 | 49 | 0 | 1 |
| 2003 | 32,730 |  | 267 | 27 | 197 | 32,463 | 265 | 27 | 267 | 2 | 0 |
| 2004 | 20,148 |  | 120 | 91 |  | 19,883 | 118 | 90 | 265 | 2 | 1 |
| 2005 | 21,697 |  | 161 | 244 |  | 21,440 | 159 | 241 | 257 | 2 | 3 |
| 2006 | 21,099 |  | 85 | 262 |  | 20,294 | 82 | 252 | 805 | 3 | 10 |
| 2007 | 16,714 | 16,589 | 159 | 376 |  | 14,988 | 143 | 337 | 1,726 | 16 | 39 |
| 2008 | 19,284 | 19,147 | 215 | 10 | 32 | 17,241 | 192 | 9 | 2,043 | 23 | 1 |
| 2009 | 10,980 | 10,955 | 106 | 174 |  | 10,875 | 105 | 172 | 105 | 1 | 2 |
| 2010 | 20,211 | 20,180 | 184 | 297 |  | 19,554 | 178 | 287 | 626 | 6 | 10 |
| 2011 | 24,032 | 23,898 | 124 | 521 |  | 22,145 | 114 | 480 | 1,753 | 10 | 41 |
| 2012 | 30,056 | 29,938 | 169 | 6 |  | 26,830 | 151 | 5 | 3,108 | 18 | 1 |
| 2013 | 25,125 | 25,074 | 99 | 0 |  | 21,107 | 83 | 0 | 3,966 | 16 | 0 |
| 2014 | 17,645 | 17,568 | 219 | 8 |  | 17,106 | 212 | 8 | 462 | 7 | 0 |
| 2015 | 19,747 | 19,715 | 85 | 49 |  | 19,592 | 84 | 49 | 123 | 1 | 0 |
| 2016 | 37,301 | 37,120 | 191 | 123 |  | 33,112 | 170 | 109 | 4,007 | 21 | 14 |
| 2017 | 30,209 | 30,150 | 229 | 0 |  | 27,345 | 207 | 0 | 2,805 | 22 | 0 |
| 2018 | 17,974 | 17,948 | 14 | 0 |  | 17,024 | 13 | 0 | 923 | 1 | 0 |
| Averages |  |  |  |  |  |  |  |  |  |  |  |
| 86-17 | 24,631 |  | 184 |  |  | 23,726 | 178 |  |  |  |  |
| 08-17 | 23,459 | 23,374 | 162 | 119 |  | 21,491 | 150 | 112 | 1,900 | 12 | 7 |

Appendix D. 11. Annual sockeye salmon stock proportions and harvest by stock in the Canadian commercial fishery on the Taku River, 1986-2018.

| Data based on SPA, brain parasite, and thermal mark analyses 1986-2011;based on GSI 2012 to present. |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Taku |  | Tatsamenie |  | Little Trapper Enhance | King Salmon Enhance | Taku |  | Stikine <br> Enhance | US <br> Enhance | Wild lake stocks based on SPA |  |  |
|  |  |  |  | King |  |  |  |  | Little Trapper |  |
|  | Lakes other | Mainstem |  |  | Wild |  | Enhance | Wild |  |  | Enhance | Kuthai | Salmon | Wild |
| 1986 | 0.508 | 0.350 | 0.143 |  |  |  |  | 1.000 |  |  |  |  | 0.111 |  | 0.397 |
| 1987 | 0.263 | 0.649 | 0.088 |  |  |  | 1.000 |  |  |  | 0.062 |  | 0.201 |
| 1988 | 0.559 | 0.343 | 0.098 |  |  |  | 1.000 |  |  |  | 0.143 |  | 0.417 |
| $1989{ }^{\text {a }}$ |  |  |  |  |  |  | 1.000 |  |  |  | 0.053 |  | a |
| 1990 | 0.499 | 0.338 | 0.163 |  |  |  | 1.000 |  |  |  | 0.112 |  | 0.388 |
| 1991 | 0.372 | 0.452 | 0.176 |  |  |  | 1.000 |  |  |  | 0.064 |  | 0.308 |
| 1992 | 0.332 | 0.569 | 0.099 |  |  |  | 1.000 |  |  |  | 0.092 |  | 0.240 |
| 1993 | 0.519 | 0.432 | 0.049 |  |  |  | 1.000 |  |  |  | 0.126 |  | 0.392 |
| 1994 | 0.640 | 0.302 | 0.058 |  |  |  | 1.000 |  |  |  | 0.158 |  | 0.482 |
| 1995 | 0.474 | 0.373 | 0.112 | 0.031 | 0.010 |  | 0.959 | 0.041 |  |  | 0.047 |  | 0.427 |
| 1996 | 0.325 | 0.442 | 0.215 | 0.010 | 0.008 |  | 0.982 | 0.018 |  |  | 0.105 |  | 0.221 |
| 1997 | 0.402 | 0.277 | 0.294 | 0.008 | 0.019 |  | 0.973 | 0.027 |  |  | 0.120 |  | 0.282 |
| 1998 | 0.432 | 0.254 | 0.283 | 0.003 | 0.028 |  | 0.969 | 0.031 |  |  | 0.225 |  | 0.207 |
| 1999 | 0.694 | 0.145 | 0.147 | 0.006 | 0.008 |  | 0.986 | 0.014 |  |  | 0.389 |  | 0.305 |
| 2000 | 0.377 | 0.326 | 0.282 | 0.016 | 0.000 |  | 0.984 | 0.016 |  |  | 0.172 |  | 0.205 |
| 2001 | 0.352 | 0.364 | 0.246 | 0.039 | 0.000 |  | 0.961 | 0.039 |  |  | 0.184 |  | 0.168 |
| 2002 | 0.745 | 0.192 | 0.062 | 0.002 | 0.000 |  | 0.998 | 0.002 |  |  | 0.316 |  | 0.428 |
| 2003 | 0.633 | 0.271 | 0.089 | 0.008 | 0.000 |  | 0.992 | 0.008 |  |  | 0.231 | 0.023 | 0.378 |
| 2004 | 0.370 | 0.586 | 0.031 | 0.013 | 0.000 |  | 0.987 | 0.013 |  |  | 0.168 | 0.071 | 0.132 |
| 2005 | 0.340 | 0.505 | 0.143 | 0.012 | 0.000 |  | 0.988 | 0.012 |  |  | 0.098 | 0.038 | 0.204 |
| 2006 | 0.259 | 0.474 | 0.229 | 0.038 | 0.000 |  | 0.962 | 0.038 |  |  | 0.055 | 0.028 | 0.176 |
| 2007 | 0.203 | 0.524 | 0.170 | 0.096 | 0.000 |  | 0.897 | 0.096 | 0.007 |  | 0.102 | 0.000 | 0.101 |
| 2008 | 0.373 | 0.222 | 0.299 | 0.099 | 0.000 |  | 0.894 | 0.099 | 0.007 |  | 0.308 | 0.007 | 0.058 |
| 2009 | 0.569 | 0.276 | 0.145 | 0.007 | 0.000 |  | 0.990 | 0.007 | 0.002 |  | 0.155 | 0.000 | 0.414 |
| 2010 | 0.195 | 0.605 | 0.167 | 0.017 | 0.014 |  | 0.967 | 0.031 | 0.002 |  | 0.162 | 0.033 | a |
| 2011 | 0.171 | 0.422 | 0.329 | 0.056 | 0.017 |  | 0.921 | 0.073 | 0.004 | 0.001 | 0.058 | 0.083 | 0.030 |
| 2012 | 0.175 | 0.570 | 0.148 | 0.095 | 0.009 |  | 0.893 | 0.103 | 0.004 |  |  |  |  |
| 2013 | 0.246 | 0.395 | 0.199 | 0.157 | 0.002 |  | 0.840 | 0.158 | 0.000 | 0.002 |  |  |  |
| 2014 | 0.259 | 0.679 | 0.032 | 0.026 | 0.000 |  | 0.969 | 0.026 | 0.004 | 0.001 |  |  |  |
| 2015 | 0.204 | 0.776 | 0.013 | 0.006 | 0.000 |  | 0.992 | 0.006 | 0.002 | 0.000 |  |  |  |
| 2016 |  |  |  | 0.090 |  | 0.017 | 0.888 | 0.107 | 0.002 | 0.003 |  |  |  |
| 2017 |  |  |  | 0.089 |  | 0.004 | 0.905 | 0.093 | 0.002 | 0.000 |  |  |  |
| 2018 |  |  |  | 0.028 |  | 0.023 | 0.947 | 0.051 | 0.001 | 0.000 |  |  |  |
| Averages |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 86-17 |  |  |  |  |  |  | 0.966 |  |  |  |  |  |  |
| 08-17 |  |  |  | 0.064 | 0.005 |  | 0.926 | 0.070 |  |  |  |  |  |
| 1986 | 7,484 | 5,152 | 2,103 |  |  |  | 14,739 |  |  |  | 1,629 |  | 5,855 |
| 1987 | 3,562 | 8,793 | 1,199 |  |  |  | 13,554 |  |  |  | 834 |  | 2,728 |
| 1988 | 6,720 | 4,122 | 1,172 |  |  |  | 12,014 |  |  |  | 1,715 |  | 5,005 |
| $1989{ }^{\text {a }}$ | 0 |  | 0 |  |  |  | 18,545 |  |  |  | 990 |  |  |
| 1990 | 10,538 | 7,131 | 3,431 |  |  |  | 21,100 |  |  |  | 2,355 |  | 8,183 |
| 1991 | 9,322 | 11,327 | 4,418 |  |  |  | 25,067 |  |  |  | 1,601 |  | 7,721 |
| 1992 | 9,784 | 16,764 | 2,924 |  |  |  | 29,472 |  |  |  | 2,699 |  | 7,085 |
| 1993 | 17,229 | 14,347 | 1,641 |  |  |  | 33,217 |  |  |  | 4,192 |  | 13,036 |
| 1994 | 18,402 | 8,684 | 1,676 |  |  |  | 28,762 | 0 |  |  | 4,544 |  | 13,858 |
| 1995 | 15,462 | 12,185 | 3,659 | 1,003 | 331 |  | 31,306 | 1,334 |  |  | 1,528 |  | 13,934 |
| 1996 | 13,552 | 18,422 | 8,959 | 401 | 331 |  | 40,933 | 732 |  |  | 4,357 |  | 9,195 |
| 1997 | 9,649 | 6,637 | 7,060 | 201 | 456 |  | 23,346 | 657 |  |  | 2,891 |  | 6,758 |
| 1998 | 8,223 | 4,829 | 5,397 | 56 | 533 |  | 18,449 | 589 |  |  | 4,279 |  | 3,944 |
| 1999 | 14,358 | 2,992 | 3,034 | 126 | 171 |  | 20,384 | 297 |  |  | 8,044 |  | 6,314 |
| 2000 | 10,554 | 9,122 | 7,897 | 436 | 0 |  | 27,573 | 436 |  |  | 4,809 |  | 5,745 |
| 2001 | 16,753 | 17,330 | 11,709 | 1,868 | 0 |  | 45,792 | 1,868 |  |  | 8,748 |  | 8,005 |
| 2002 | 23,131 | 5,948 | 1,925 | 49 | 0 |  | 31,004 | 49 |  |  | 9,826 |  | 13,305 |
| 2003 | 20,706 | 8,855 | 2,902 | 267 | 0 |  | 32,463 | 267 |  |  | 7,568 | 755 | 12,383 |
| 2004 | 7,464 | 11,799 | 620 | 266 | 0 |  | 19,883 | 266 |  |  | 3,381 | 1,430 | 2,653 |
| 2005 | 7,382 | 10,950 | 3,108 | 257 | 0 |  | 21,440 | 257 |  |  | 2,120 | 829 | 4,433 |
| 2006 | 5,461 | 9,993 | 4,840 | 805 | 0 |  | 20,294 | 805 |  |  | 1,168 | 589 | 3,704 |
| 2007 | 3,391 | 8,759 | 2,838 | 1,602 | 0 |  | 14,988 | 1,602 | 125 |  | 1,697 | 0 | 1,694 |
| 2008 | 7,202 | 4,276 | 5,763 | 1,905 | 0 |  | 17,241 | 1,905 | 137 |  | 5,949 | 139 | 1,114 |
| 2009 | 6,252 | 3,035 | 1,588 | 80 | 0 |  | 10,875 | 80 | 25 |  | 1,703 | 0 | 4,549 |
| $2010^{\text {a }}$ | 3,950 | 12,235 | 3,369 | 334 | 290 |  | 19,554 | 624 | 31 | 0 | 3,274 | 676 |  |
| 2011 | 4,099 | 10,140 | 7,906 | 1,347 | 406 |  | 22,145 | 1,753 | 106 | 28 | 1,387 | 1,990 | 723 |
| 2012 | 5,254 | 17,143 | 4,434 | 2,852 | 257 |  | 26,830 | 3,109 | 118 | 0 |  |  |  |
| 2013 | 6,189 | 9,922 | 4,997 | 3,934 | 40 |  | 21,107 | 3,974 | 11 | 40 |  |  |  |
| 2014 | 4,570 | 11,981 | 565 | 462 | 0 |  | 17,106 | 462 | 66 | 11 |  |  |  |
| 2015 | 4,028 | 15,324 | 257 | 123 | 0 |  | 19,592 | 123 | 32 | 0 |  |  |  |
| 2016 |  |  |  | 3,361 | 0 | 646 | 33,112 | 4,007 | 57 | 124 |  |  |  |
| 2017 |  |  |  | 2,690 |  | 115 | 27,345 | 2,805 | 59 | 0 |  |  |  |
| 2018 |  |  |  | 508 |  | 416 | 17,024 | 923 | 26 | 0 |  |  |  |
| Averages |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 86-17 |  |  |  |  |  |  | 23,726 |  |  |  |  |  |  |
| 08-17 |  |  |  | 1,709 | 110 |  | 21,491 | 1,884 |  |  |  |  |  |

${ }^{\text {a }}$ The Trapper and Mainstem groups were combined in the 1989 and 2010 analyses.

Appendix D. 12. Annual sockeye salmon weir counts, escapements, and samples at the Tatsamenie Lake weir, 1984-2018.

| Broodstock taken includes all fish used for gametes, holding mortalities, and fish held and released unspawned. Generally ototlith samples are a proportion of the broodstock samples. Biological samples are part of spawning escapement used for otolith samples to provide wild/enhanced data. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Weir Count (Total escapement) |  |  | Broodstock taken |  |  | Broodstock otoliths |  |  | Carcasses otolith samples |  |  | Natual Spawning escapement |  |  |
|  | Wild | Enhanced | Total | Wild | Enhanced | Total | Wild | Enhanced | Total | Wild | Enhanced | Total | Wild | Enhanced | Total |
| 1984 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $1985{ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1986 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $1987^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1989 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1990 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1991 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1992 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1993 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1994 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1995 | 4,536 | 1,244 | 5,780 | 1,093 | 300 | 1,393 |  |  |  |  |  |  | 3,443 | 944 | 4,387 |
| 1996 | 9,936 | 445 | 10,381 | 2,254 | 101 | 2,355 |  |  |  |  |  |  | 7,682 | 344 | 8,026 |
| 1997 | 8,131 | 232 | 8,363 | 2,316 | 66 | 2,382 |  |  |  |  |  |  | 5,815 | 166 | 5,981 |
| 1998 | 5,861 | 136 | 5,997 | 1,233 | 29 | 1,262 | 389 | 9 | 398 |  |  |  | 4,628 | 107 | 4,735 |
| 1999 | 2,067 | 37 | 2,104 | 212 | 4 | 216 | 167 | 3 | 170 |  |  |  | 1,855 | 33 | 1,888 |
| 2000 | 6,575 | 1,000 | 7,575 | 1,740 | 265 | 2,005 | 342 | 52 | 394 |  |  |  | 4,835 | 735 | 5,570 |
| 2001 | 18,822 | 3,753 | 22,575 | 2,498 | 498 | 2,996 | 336 | 67 | 403 |  |  |  | 16,324 | 3,255 | 19,579 |
| 2002 | 4,836 | 659 | 5,495 | 982 | 134 | 1,116 | 345 | 47 | 392 |  |  |  | 3,854 | 525 | 4,379 |
| 2003 | 3,175 | 1,340 | 4,515 | 1,090 | 460 | 1,550 | 256 | 108 | 364 |  |  |  | 2,085 | 880 | 2,965 |
| 2004 | 1,237 | 714 | 1,951 | 377 | 217 | 594 | 220 | 127 | 347 |  |  |  | 860 | 497 | 1,357 |
| 2005 | 2,703 | 669 | 3,372 | 743 | 184 | 927 | 311 | 77 | 388 |  |  |  | 1,960 | 485 | 2,445 |
| 2006 | 19,984 | 2,491 | 22,475 | 2,361 | 294 | 2,655 | 369 | 46 | 415 |  |  |  | 17,623 | 2,197 | 19,820 |
| 2007 | 7,999 | 3,188 | 11,187 | 2,004 | 799 | 2,803 | 276 | 110 | 386 |  |  |  | 5,995 | 2,389 | 8,384 |
| 2008 | 4,809 | 4,167 | 8,976 | 1,500 | 1,300 | 2,800 | 210 | 182 | 392 |  |  |  | 3,309 | 2,867 | 6,176 |
| 2009 | 1,679 | 353 | 2,032 | 611 | 129 | 740 | 328 | 69 | 397 |  |  |  | 1,067 | 225 | 1,292 |
| 2010 | 2,807 | 706 | 3,513 | 1,119 | 281 | 1,400 | 318 | 80 | 398 |  |  |  | 1,688 | 425 | 2,113 |
| 2011 | 5,806 | 2,074 | 7,880 | 958 | 342 | 1,300 | 294 | 105 | 399 |  |  |  | 4,848 | 1,732 | 6,580 |
| 2012 | 9,363 | 6,242 | 15,605 | 780 | 520 | 1,300 | 240 | 160 | 400 |  |  |  | 8,583 | 5,722 | 14,305 |
| 2013 | 5,548 | 4,698 | 10,246 | 704 | 596 | 1,300 | 209 | 177 | 386 |  |  |  | 4,844 | 4,102 | 8,946 |
| 2014 | 1,213 | 893 | 2,106 | 437 | 321 | 758 | 201 | 148 | 349 |  |  |  | 776 | 572 | 1,348 |
| 2015 | 868 | 669 | 1,537 | 338 | 260 | 598 | 188 | 145 | 333 |  |  |  | 530 | 409 | 939 |
| 2016 | 26,890 | 6,044 | 32,934 | 1,225 | 275 | 1,500 | 396 | 89 | 485 |  |  | 100 | 25,666 | 5,768 | 31,434 |
| 2017 | 22,023 | 5,214 | 27,237 | 1,245 | 295 | 1,540 | 321 | 76 | 397 | 141 | 20 | 161 | 20,778 | 4,919 | 25,697 |
| 2018 | 3,614 | 1,472 | 5,086 | 927 | 377 | 1,304 | 280 | 114 | 394 | 0 | 0 | 0 | 2,688 | 1,094 | 3,782 |
| Averages |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 08-17 | 8,101 | 3,106 | 11,207 | 892 | 432 | 1,324 | 271 | 123 | 394 |  |  |  | 7,209 | 2,674 | 9,883 |

Appendix D. 13. Annual sockeye salmon weir counts, escapements, and samples at the Little Trapper weir, 1983-2018.

| Broodstock estimate is based on commercial ratio with Tatsamenie River weir data |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Weir count | jodstock tak | Wild spawning escapement |  |  |
|  |  |  | Total | wild | enhanced |
| 1983 | 7,402 | 0 | 7,402 | 7,402 |  |
| 1984 | 13,084 | 0 | 13,084 | 13,084 |  |
| 1985 | 14,889 | 0 | 14,889 | 14,889 |  |
| 1986 | 13,820 | 0 | 13,820 | 13,820 |  |
| 1987 | 12,007 | 0 | 12,007 | 12,007 |  |
| 1988 | 10,637 | 0 | 10,637 | 10,637 |  |
| 1989 | 9,606 | 0 | 9,606 | 9,606 |  |
| 1990 | 9,443 | 1,666 | 7,777 | 7,777 |  |
| 1991 | 22,942 | 1,941 | 21,001 | 21,001 |  |
| 1992 | 14,372 | 1,640 | 12,732 | 12,732 |  |
| 1993 | 17,432 | 747 | 16,685 | 16,685 |  |
| 1994 | 13,438 | 747 | 12,691 | 12,691 |  |
| 1995 | 11,524 | 0 | 11,524 | 11,067 | 457 |
| 1996 | 5,483 | 0 | 5,483 | 5,292 | 191 |
| 1997 | 5,924 | 0 | 5,924 | 5,543 | 381 |
| 1998 | 8,717 | 0 | 8,717 | 7,698 | 1,019 |
| 1999 | 11,805 | 0 | 11,805 | 11,760 | 45 |
| 2000 | 11,551 | 0 | 11,551 | 11,551 | 0 |
| 2001 | 16,860 | 0 | 16,860 | 16,860 | 0 |
| 2002 | 7,973 | 0 | 7,973 | 7,973 | 0 |
| 2003 | 31,227 | 0 | 31,227 | 31,227 | 0 |
| 2004 | 9,613 | 0 | 9,613 | 9,613 | 0 |
| 2005 | 16,009 | 0 | 16,009 | 16,009 | 0 |
| 2006 | 25,265 | 708 | 24,557 | 24,557 | 0 |
| 2007 | 7,153 | 813 | 6,340 | 6,340 | 0 |
| 2008 | 3,831 | 1,040 | 2,791 | 2,791 | 0 |
| 2009 | 5,552 | 109 | 5,443 | 5,443 | 0 |
| 2010 | 3,347 |  | 3,387 | 3,084 | 303 |
| 2011 | 3,809 |  | 3,809 | 3,521 | 288 |
| 2012 | 10,015 |  | 10,015 | 9,522 | 493 |
| 2013 | 4,840 |  | 4,840 | 4,809 | 31 |
| 2014 | 6,607 |  | 6,707 | 6,707 | 0 |
| 2015 | 13,253 |  | 13,253 | 13,253 |  |
| 2016 | 7,771 |  | 7,594 | 7,594 |  |
| 2017 | 6,552 |  | 6,376 | 6,376 |  |
| 2018 | 8,249 |  | 8,249 | 8,249 |  |
| Averages |  |  |  |  |  |
| 83-17 | 11,250 |  |  |  |  |
| 08-17 | 6,558 |  |  |  |  |

Appendix D. 14. Annual sockeye salmon weir counts, escapements, and samples at the King Salmon weir, 1983-2018.
Spawning escapement is based harvest rates and projections of King Salmon inriver run estimate

|  |  |  | Wild spawning escapement |  |  |
| ---: | :---: | :---: | :---: | :---: | :---: |
| Year | Weir count | Jodstock tak | Total | wild | enhanced |
| 2004 | 5005 |  | 5,005 | 5,005 |  |
| 2005 | 1046 |  | 1,046 | 1,046 |  |
| 2006 | 2177 |  | 2,177 | 2,177 |  |
| 2007 | 5 | 5 | 5 |  |  |
| 2008 | 888 |  | 888 | 888 |  |
| 2009 | 1100 |  | 1,100 | 1,100 |  |
| 2010 | 2977 |  | 2,977 | 2,977 |  |
| 2011 | 2899 |  | 2,899 | 2,899 |  |
| 2012 | 6913 | 150 | 6,763 | 6,763 |  |
| 2013 | 470 |  | 470 | 470 |  |
| 2014 | 1061 | 151 | 910 | 910 |  |
| 2015 | 1683 |  | 1,683 | 1,683 |  |
| 2016 | 6404 |  | 6,404 | 3,378 | 3,026 |
| 2017 | 439 |  | $\mathbf{4 3 9}$ | $\mathbf{4 3 9}$ |  |
| 2018 | 3375 |  | 3,375 | 2,471 | 904 |

Appendix D. 15. Taku River sockeye salmon run size, 1984-2018.

| Run estimate does not include spawning escapements below the U.S./Canada border. |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  |
| Year | Above Border MR |  | Expansion |  | Expanded |  | Escape. | $\begin{gathered} \text { U.S. } \\ \text { Harvest } \end{gathered}$ | Terminal <br> Run | Total Harvest <br> Rate |
|  | Run | Start |  |  |  | Canadian |  |  |  |  |
|  | Estimate | Date | Method | Factor | Run Estimate | harvest |  |  |  |  |
| 1984 | 133,414 | 17-Jun | Ave.(88-90\&95-96) FW CPUE | 0.056 | 141,254 | 27,292 | 113,962 | 57,619 | 198,873 | 43\% |
| 1985 | 118,160 | 16-Jun | Ave.(88-90\&95-96) FW CPUE | 0.047 | 123,974 | 14,411 | 109,563 | 74,287 | 198,261 | 45\% |
| 1986 | 104,162 | 22-Jun | Ave.(88-90\&95-96) FW CPUE | 0.095 | 115,045 | 14,939 | 100,106 | 60,644 | 175,689 | 43\% |
| 1987 | 87,554 | 21-Jun | Ave.(88-90\&95-96) FW CPUE | 0.088 | 96,023 | 13,887 | 82,136 | 54,963 | 150,986 | 46\% |
| 1988 | 86,629 | 19-Jun | 1988 FW CPUE | 0.065 | 92,641 | 12,967 | 79,674 | 25,785 | 118,427 | 33\% |
| 1989 | 99,467 | 18-Jun | 1989 FW CPUE | 0.128 | 114,068 | 18,805 | 95,263 | 63,366 | 177,434 | 46\% |
| 1990 | 117,385 | 10-Jun | 1990 CPUE | 0.002 | 117,573 | 21,474 | 96,099 | 109,285 | 226,858 | 58\% |
| 1991 | 153,773 | 9-Jun | Ave.(88-90\&95-96) FW CPUE | 0.007 | 154,873 | 25,380 | 129,493 | 105,271 | 260,143 | 50\% |
| 1992 | 162,003 | 21-Jun | Ave.(88-90\&95-96) FW CPUE | 0.032 | 167,376 | 29,862 | 137,514 | 121,176 | 288,551 | 52\% |
| 1993 | 138,523 | 13-Jun | Ave.(88-90\&95-96) FW CPUE | 0.026 | 142,148 | 33,523 | 108,625 | 142,089 | 284,236 | 62\% |
| 1994 | 129,119 | 12-Jun | Ave.(88-90\&95-96) FW CPUE | 0.019 | 131,580 | 29,001 | 102,579 | 98,063 | 229,642 | 55\% |
| 1995 | 145,264 | 11-Jun | 1995 FW CPUE | 0.008 | 146,450 | 32,711 | 113,739 | 91,984 | 238,434 | 52\% |
| 1996 | 132,322 | 9 -Jun | 1996 FW CPUE | 0.017 | 134,651 | 42,025 | 92,626 | 187,727 | 322,379 | 71\% |
| 1997 | 93,816 | 3-May | 1997 FW CPUE | 0.017 | 95,438 | 24,352 | 71,086 | 79,127 | 174,565 | 59\% |
| 1998 | 89,992 | 2-May | No Expansion |  | 89,992 | 19,277 | 70,715 | 49,832 | 139,824 | 49\% |
| 1999 | 113,706 | 14-May | No Expansion |  | 113,706 | 21,151 | 92,555 | 63,058 | 176,764 | 48\% |
| 2000 | 115,693 | 14-May | No Expansion |  | 115,693 | 28,468 | 87,225 | 131,262 | 246,954 | 65\% |
| 2001 | 192,245 | 27-May | No Expansion |  | 192,245 | 48,117 | 144,128 | 204,433 | 396,678 | 64\% |
| 2002 | 135,233 | 19-May | No Expansion |  | 135,233 | 31,726 | 103,507 | 116,400 | 251,633 | 59\% |
| 2003 | 193,390 | 20-May | No Expansion |  | 193,390 | 33,024 | 160,366 | 136,942 | 330,332 | 51\% |
| 2004 | 127,047 | 12-May | No Expansion |  | 127,047 | 20,359 | 106,688 | 77,012 | 204,059 | 48\% |
| 2005 | 142,155 | 5-May | No Expansion |  | 142,155 | 22,102 | 120,053 | 46,089 | 188,244 | 36\% |
| 2006 | 167,597 | 20-May | No Expansion |  | 167,597 | 21,446 | 146,151 | 65,828 | 233,425 | 37\% |
| 2007 | 104,815 | 19-May | FW CPUE | 0.002 | 105,012 | 17,124 | 87,888 | 65,129 | 170,141 | 48\% |
| 2008 | 84,073 | 17-May | FW CPUE after week 34 | 0.040 | 87,568 | 19,372 | 68,196 | 75,692 | 163,260 | 58\% |
| 2009 | 83,028 | 12-May | FW CPUE after week 34 | 0.001 | 83,097 | 11,235 | 71,862 | 36,232 | 119,329 | 40\% |
| 2010 | 103,257 | 19-May | FW CPUE | 0.053 | 109,028 | 20,661 | 88,367 | 46,767 | 155,795 | 43\% |
| 2011 | 139,926 | 25-Apr | No Expansion |  | 139,926 | 24,543 | 115,383 | 71,805 | 211,731 | 46\% |
| 2012 | 155,590 | 25-Apr | FW CPUE for SW 23 and 24 | 0.008 | 156,877 | 30,113 | 126,764 | 50,736 | 207,612 | 39\% |
| 2013 | 96,928 | 15-May | FW CPUE for SW 23,24, and 37 | 0.089 | 106,350 | 25,173 | 81,177 | 100,144 | 206,493 | 61\% |
| 2014 | 109,984 | 25-Apr | No Expansion |  | 109,984 | 17,795 | 92,189 | 33,226 | 143,210 | 36\% |
| 2015 | 150,483 | 25-Apr | FW CPUE for SW 23 and 24 | 0.012 | 152,372 | 19,849 | 132,523 | 42,054 | 194,426 | 32\% |
| 2016 | 213,851 | 25-Apr | FW CPUE for SW 23 and 24 | 0.012 | 216,536 | 37,434 | 179,103 | 74,874 | 291,410 | 39\% |
| 2017 | 138,518 | 18-May | Historical FW CPUE for SW 38-40 | 0.002 | 138,796 | 30,379 | 108,416 | 74,604 | 213,399 | 49\% |
| 2018 | 135,351 | 7-Jun | Historical FW CPUE for SW 37-40 | 0.012 | 136,995 | 17,962 | 119,033 | 27,514 | 164,509 | 28\% |
| Averages |  |  |  |  |  |  |  |  |  |  |
| 84-17 | 128,209 | 24-May |  |  | 131,050 | 24,705 | 106,345 | 83,338 | 214,388 | 49\% |
| 08-17 | 127,564 | 5-May |  |  | 130,053 | 23,655 | 106,398 | 60,613 | 190,667 | 43\% |

Appendix D. 16. Taku River sockeye salmon run size adjusted estimates, 1984-2018.

| Run estimate does not include spawning escapements below the U.S./Canada border. The early season sockeye salmon expansion is based on the proportion of fish wheel |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Above Border MR |  | Expansion |  | Expanded |  |  | Total |  |  |  |  |
|  | Run | Start |  |  | Above Border | Canadian | Total | U.S. | Terminal | Harvest | Wild | Wild |
| Year | Estimate | Date | Method | Factor | Run Estimate | harvest | Escape. | Harvest | Run | Rate | Escapement | Terminal Run |
| 2018 | 115,036 | 7-Jun | Historical FW CPUE for SW 37-40 | 0.012 | 116,427 | 17,962 | 98,465 | 27,514 | 143,941 | 32\% | 96,089 | 139,126 |

Appendix D. 17. The terminal run reconstruction of Taku wild and enhanced sockeye salmon-unadjusted estimates, 1984-2018.

| Year | Wild Terminal Run |  |  |  |  | Enhanced Terminal Run |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Canadian |  | escapement | US harvest | Terminal <br> Run | Canadian |  | escapement | $\begin{gathered} \text { US } \\ \text { harvest } \end{gathered}$ | Terminal Run |
|  | harvest | test |  |  |  | Commercial | test |  |  |  |
| 1984 | 27,292 | 0 | 113,962 | 57,619 | 198,873 |  |  |  |  |  |
| 1985 | 14,411 | 0 | 109,563 | 74,287 | 198,261 |  |  |  |  |  |
| 1986 | 14,939 | 0 | 100,106 | 60,644 | 175,689 |  |  |  |  |  |
| 1987 | 13,650 | 237 | 82,136 | 54,963 | 150,986 |  |  |  |  |  |
| 1988 | 12,259 | 708 | 79,674 | 25,785 | 118,427 |  |  |  |  |  |
| 1989 | 18,598 | 207 | 95,263 | 63,366 | 177,434 |  |  |  |  |  |
| 1990 | 21,189 | 285 | 96,099 | 109,285 | 226,858 |  |  |  |  |  |
| 1991 | 25,217 | 163 | 129,493 | 105,271 | 260,143 |  |  |  |  |  |
| 1992 | 29,824 | 38 | 137,514 | 121,176 | 288,551 |  |  |  |  |  |
| 1993 | 33,357 | 166 | 108,625 | 142,089 | 284,236 |  |  |  |  |  |
| 1994 | 29,001 | 0 | 102,579 | 98,063 | 229,642 |  |  |  |  |  |
| 1995 | 31,374 | 0 | 112,039 | 87,878 | 231,291 | 1,337 | 0 | 1,700 | 4,106 | 7,143 |
| 1996 | 41,287 | 0 | 91,991 | 182,944 | 316,222 | 738 | 0 | 636 | 4,783 | 6,157 |
| 1997 | 23,685 | 0 | 70,474 | 77,067 | 171,226 | 667 | 0 | 612 | 2,060 | 3,339 |
| 1998 | 18,681 | 0 | 69,560 | 48,989 | 137,230 | 596 | 0 | 1,155 | 843 | 2,594 |
| 1999 | 20,761 | 87 | 92,473 | 62,441 | 175,761 | 302 | 1 | 82 | 617 | 1,003 |
| 2000 | 27,711 | 314 | 86,225 | 129,683 | 243,933 | 438 | 5 | 1,000 | 1,579 | 3,022 |
| 2001 | 45,994 | 237 | 140,375 | 195,496 | 382,101 | 1,876 | 10 | 3,753 | 8,938 | 14,577 |
| 2002 | 31,159 | 517 | 102,848 | 115,747 | 250,271 | 49 | 1 | 659 | 653 | 1,362 |
| 2003 | 32,728 | 27 | 159,026 | 136,165 | 327,946 | 269 | 0 | 1,340 | 777 | 2,386 |
| 2004 | 20,001 | 90 | 105,974 | 76,321 | 202,386 | 267 | 1 | 714 | 692 | 1,673 |
| 2005 | 21,599 | 241 | 119,384 | 45,496 | 186,720 | 259 | 3 | 669 | 593 | 1,524 |
| 2006 | 20,376 | 252 | 143,660 | 63,587 | 227,875 | 808 | 10 | 2,491 | 2,241 | 5,550 |
| 2007 | 15,131 | 337 | 84,700 | 61,387 | 161,554 | 1,742 | 39 | 3,188 | 3,742 | 8,712 |
| 2008 | 17,433 | 9 | 64,029 | 63,905 | 145,376 | 2,066 | 1 | 4,167 | 11,787 | 18,021 |
| 2009 | 10,980 | 172 | 71,509 | 35,984 | 118,645 | 106 | 2 | 353 | 248 | 709 |
| 2010 | 19,732 | 287 | 87,358 | 45,824 | 153,201 | 632 | 10 | 1,009 | 943 | 2,594 |
| 2011 | 22,259 | 480 | 113,022 | 66,113 | 201,875 | 1,762 | 41 | 2,362 | 5,691 | 9,856 |
| 2012 | 26,981 | 5 | 120,029 | 46,559 | 193,574 | 3,126 | 1 | 6,735 | 4,177 | 14,038 |
| 2013 | 21,190 | 0 | 76,447 | 86,773 | 184,411 | 3,982 | 0 | 4,730 | 13,371 | 22,083 |
| 2014 | 17,318 | 8 | 91,296 | 32,306 | 140,929 | 468 | 0 | 893 | 919 | 2,281 |
| 2015 | 19,676 | 49 | 131,854 | 41,852 | 193,431 | 124 | 0 | 669 | 202 | 995 |
| 2016 | 33,282 | 109 | 170,033 | 68,031 | 271,455 | 4,029 | 14 | 9,069 | 6,843 | 19,955 |
| 2017 | 27,552 | 0 | 103,202 | 68,480 | 199,235 | 2,827 | 0 | 5,214 | 6,123 | 14,164 |
| 2018 | 17,038 | 0 | 116,658 | 25,999 | 159,694 | 924 | 0 | 2,376 | 1,516 | 4,815 |
| Averages |  |  |  |  |  |  |  |  |  |  |
| 84-17 | 23,724 | 148 | 104,780 | 80,929 | 209,581 |  |  |  |  |  |
| 08-17 | 21,641 | 112 | 102,878 | 55,583 | 180,213 | 1,912 | 7 | 3,520 | 5,031 | 10,470 |

Appendix D. 18. Annual sockeye salmon escapement estimates of Taku River and Port Snettisham sockeye salmon stocks, 1979-2018.

| Spawners equals escapement to the weir minus fish collected for brood stock. |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Little Trapper |  | Little Tatsamenie |  | Tatsamenie |  | King Salmon |  | Kuthai Lake Weir | Nahlin River Weir |
|  | Count | Escape. | Count | Escape. | Count | Escape. | count | escape |  |  |
| 1980 |  |  |  |  |  |  |  |  | 1,658 |  |
| 1981 |  |  |  |  |  |  |  |  | 2,299 |  |
| 1982 |  |  |  |  |  |  |  |  |  |  |
| 1983 | 7,402 | 7,402 |  |  |  |  |  |  |  |  |
| 1984 | 13,084 | 13,084 |  |  |  |  |  |  |  |  |
| 1985 | 14,889 | 14,889 | 13,093 | 13,093 |  |  |  |  |  |  |
| 1986 | 13,820 | 13,820 | 11,446 | 11,446 |  |  |  |  |  |  |
| 1987 | 12,007 | 12,007 | 2,794 | 2,794 |  | 25 |  |  |  |  |
| 1988 | 10,637 | 10,637 | 2,063 | 2,063 |  |  |  |  |  | 138 |
| 1989 | 9,606 | 9,606 | 3,039 | 3,039 |  |  |  |  |  |  |
| 1990 | 9,443 | 7,777 | 5,736 | 4,929 |  |  |  |  |  | 2,515 |
| 1991 | 22,942 | 21,001 | 8,381 | 7,585 |  |  |  |  |  |  |
| 1992 | 14,372 | 12,732 | 6,576 | 5,681 |  |  |  |  | 1,457 | 297 |
| 1993 | 17,432 | 16,685 | 5,028 | 4,230 |  |  |  |  | 6,312 | 2,463 |
| 1994 | 13,438 | 12,691 | 4,371 | 3,578 |  |  |  |  | 5,427 | 960 |
| 1995 | 11,524 | 11,524 |  |  | 5,780 | 4,387 |  |  | 3,310 | 3,711 |
| 1996 | 5,483 | 5,483 |  |  | 10,381 | 8,026 |  |  | 4,243 | 2,538 |
| 1997 | 5,924 | 5,924 |  |  | 8,363 | 5,981 |  |  | 5,746 | 1,857 |
| 1998 | 8,717 | 8,717 |  |  | 5,997 | 4,735 |  |  | 1,934 | 345 |
| 1999 | 11,805 | 11,805 |  |  | 2,104 | 1,888 |  |  | 10,042 |  |
| 2000 | 11,551 | 11,551 |  |  | 7,575 | 5,570 |  |  | 4,096 |  |
| 2001 | 16,860 | 16,860 |  |  | 22,575 | 19,579 |  |  | 1,663 | 935 |
| 2002 | 7,973 | 7,973 |  |  | 5,495 | 4,379 |  |  | 7,697 |  |
| 2003 | 31,227 | 31,227 |  |  | 4,515 | 2,965 |  |  | 7,769 |  |
| 2004 | 9,613 | 9,613 |  |  | 1,951 | 1,357 | 5,005 | 5,005 | 1,578 |  |
| 2005 | 16,009 | 16,009 |  |  | 3,372 | 2,445 | 1,046 | 1,046 | 6,004 |  |
| 2006 | 25,265 | 24,557 |  |  | 22,475 | 19,820 | 2,177 | 2,177 | 1,015 |  |
| 2007 | 7,153 | 6,340 |  |  | 11,187 | 8,384 | 5 |  | 204 |  |
| 2008 | 3,831 | 2,791 |  |  | 8,976 | 6,176 | 888 | 888 | 1,547 |  |
| 2009 | 5,552 | 5,443 |  |  | 2,032 | 1,292 | 1,100 | 1,100 | 1,442 |  |
| 2010 | 3,347 | 3,387 |  |  | 3,513 | 2,113 | 2,977 | 2,977 | 1,626 |  |
| 2011 | 3,809 | 3,809 |  |  | 7,880 | 6,580 | 2,899 | 2,899 | 811 |  |
| 2012 | 10,015 | 10,015 |  |  | 15,605 | 14,305 | 6,913 | 6,746 | 182 |  |
| 2013 | 4,840 | 4,840 |  |  | 10,246 | 8,946 | 470 | 470 | 1,195 |  |
| 2014 | 6,607 | 6,707 |  |  | 2,106 | 1,348 | 1,061 | 894 | 208 |  |
| 2015 | 13,253 | 13,253 |  |  | 1,537 | 939 | 1,683 | 1,683 | 341 |  |
| 2016 | 7,771 | 7,594 |  |  | 32,934 | 31,434 | 6,404 | 6,404 | 1,476 |  |
| 2017 | 6,552 | 6,376 |  |  | 27,237 | 25,697 | 439 | 439 | 299 |  |
| 2018 | 8,249 | 8,249 |  |  | 5,086 | 3,386 | 3,375 | 3,375 | 13 |  |
| Averages |  |  |  |  |  |  |  |  |  |  |
| 83-17 | 11,250 | 10,975 |  |  |  |  |  |  |  |  |
| 07-18 | 6,558 | 6,422 |  |  | 11,207 | 9,883 | 2,483 | 2,450 | 913 |  |

Appendix D. 19. Historical Taku River coho salmon harvested in D111 terminal fisheries, 1992-2018.

| Sportfish estimate is based on all landings made in Juneau (not just District 111) |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | D111 Gillnet |  | Juneau Sport Fish |  | PU | Total |
|  | Harvest | SE | Harvest | SE |  |  |
| 1992 | 74,226 | 23,030 | 431 | 380 | 88 | 74,745 |
| 1993 | 32,456 | 8,515 | 3,222 | 3,048 | 25 | 35,703 |
| 1994 | 82,181 | 14,117 | 19,018 | 8,674 | 93 | 101,292 |
| 1995 | 51,286 | 7,263 | 7,857 | 2,920 | 97 | 59,240 |
| 1996 | 14,491 | 2,762 | 2,461 | 1,162 | 67 | 17,019 |
| 1997 | 1,489 | 412 | 4,963 | 1,674 | 27 | 6,479 |
| 1998 | 12,972 | 2,015 | 3,984 | 1,084 | 86 | 17,042 |
| 1999 | 5,572 | 913 | 3,393 | 997 | 44 | 9,009 |
| 2000 | 7,352 | 1,355 | 4,137 | 1,148 | 31 | 11,520 |
| 2001 | 9,212 | 1,523 | 2,505 | 813 | 22 | 11,739 |
| 2002 | 26,981 | 4,257 | 6,189 | 1,346 | 68 | 33,238 |
| 2003 | 19,659 | 6,937 | 5,421 | 1,727 | 59 | 25,139 |
| 2004 | 13,058 | 2,937 | 12,720 | 3,528 | 120 | 25,898 |
| 2005 | 18,011 | 5,679 | 3,573 | 1,830 | 134 | 21,718 |
| 2006 | 32,051 | 4,020 | 3,985 | 1,017 | 134 | 36,170 |
| 2007 | 15,753 | 2,416 | 804 | 488 | 60 | 16,617 |
| 2008 | 23,806 | 5,028 | 493 | 362 | 91 | 24,390 |
| 2009 | 36,757 | 5,033 | 5,949 | 2,445 | 240 | 42,946 |
| 2010 | 41,695 | 8,703 | 13,301 | 4,491 | 258 | 55,254 |
| 2011 | 4,829 | 1,237 | 4,340 | 977 | 224 | 9,393 |
| 2012 | 10,760 | 2,674 | 662 | 465 | 132 | 11,554 |
| 2013 | 23,269 | 3,330 | 1,793 | 716 | 238 | 25,300 |
| 2014 | 28,297 | 5,127 | 2,628 | 1,445 | 224 | 31,149 |
| 2015 | 6,239 | 2,163 | 3,063 | 1,699 | 256 | 9,558 |
| 2016 | 12,717 | 2,737 | 1,044 | 604 | 169 | 13,930 |
| 2017 | 7,446 | 2,724 | 5,892 | 2,424 | 178 | 13,516 |
| 2018 | 11,346 | 2,391 | 1,035 | 490 | 246 | 12,627 |
| average |  |  |  |  |  |  |
| 08-17 | 19,233 | 3,743 | 3,634 | 1,465 | 188 | 23,055 |

Appendix D. 20. Historical coho salmon harvested in the Canadian fisheries in the Taku River, 1987-2018.

| Year | Commercial |  |  | Aboriginal | Test | Test released |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total | Before SW34 | SW34 to end |  |  |  |
| 1979 | 6,006 |  |  |  |  |  |
| 1980 | 6,405 |  |  | 0 |  |  |
| 1981 | 3,607 |  |  |  |  |  |
| 1982 | 51 |  |  |  |  |  |
| 1983 | 8,390 |  |  | 0 |  |  |
| 1984 | 5,357 |  |  | 15 |  |  |
| 1985 | 1,770 |  |  | 22 |  |  |
| 1986 | 1,783 |  |  | 50 |  |  |
| 1987 | 5,599 |  |  | 113 | 807 |  |
| 1988 | 3,123 |  |  | 98 | 422 |  |
| 1989 | 2,876 |  |  | 146 | 1,011 |  |
| 1990 | 3,207 |  |  | 6 | 472 |  |
| 1991 | 3,415 |  |  | 20 | 2,004 |  |
| 1992 | 4,077 |  |  | 187 | 1,277 |  |
| 1993 | 3,033 |  |  | 8 | 1,593 |  |
| 1994 | 14,531 |  |  | 162 |  |  |
| 1995 | 13,629 |  |  | 109 |  |  |
| 1996 | 5,028 |  |  | 24 |  | 39 |
| 1997 | 2,594 |  |  | 96 |  |  |
| 1998 | 5,090 |  |  | 0 |  |  |
| 1999 | 4,416 |  |  | 471 | 688 |  |
| 2000 | 4,395 |  |  | 342 | 710 |  |
| 2001 | 2,568 |  |  | 500 | 31 | 2,976 |
| 2002 | 3,082 |  |  | 688 | 32 | 3,767 |
| 2003 | 3,168 |  |  | 416 | 59 | 4,031 |
| 2004 | 5,966 | 2,387 | 3,579 | 450 | 3,268 |  |
| 2005 | 4,924 | 1,412 | 3,512 | 162 | 3,173 |  |
| 2006 | 8,567 | 4,947 | 3,620 | 300 | 2,802 |  |
| 2007 | 5,244 | 2,229 | 3,015 | 155 | 2,674 |  |
| 2008 | 3,906 | 2,802 | 1,104 | 67 | 0 | 1,012 |
| 2009 | 5,649 | 2,379 | 3,270 | 154 | 3,963 |  |
| 2010 | 10,349 | 3,283 | 7,066 | 59 | 4,000 |  |
| 2011 | 8,446 | 2,353 | 6,093 | 30 | 4,002 |  |
| 2012 | 11,548 | 2,883 | 8,665 | 324 | 2,200 |  |
| 2013 | 10,264 | 2,406 | 7,858 | 111 | 0 |  |
| 2014 | 14,464 | 2,696 | 11,768 | 104 | 2,000 |  |
| 2015 | 7,886 | 2,427 | 5,459 | 299 | 1,998 |  |
| 2016 | 9,466 | 1,983 | 7,483 | 47 | 2,007 |  |
| 2017 | 7,726 | 2,847 | 4,879 | 76 | 0 | 686 |
| 2018 | 9,503 | 2,258 | 7,245 | 2 | 0 | 244 |
| Averages |  |  |  |  |  |  |
| 83-17 | 6,158 |  |  | 166 |  |  |
| 08-17 | 8,970 |  |  | 127 | 2,017 |  |

Appendix D. 21. Historic Taku River coho salmon run size, 1987-2018.
The run estimates do not include spawning escapements below the U.S./Canada border. Estimates are expanded if mark-recapture activities terminate prior to run completion.

| Year | Above Border M-R |  | Expansion |  | Expanded <br> Estimate | Canadian <br> Harvest | Escape. | Terminal |  |  | Total <br> Run |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Run <br> Estimate | End <br> Date |  |  | U.S. |  |  |  | Harvest |  |
|  |  |  | Method | Factor |  |  |  | Harvest | Run | Rate |  |
| 1987 | 43,750 | 20-Sep | Test Fish CPUE | 1.42 |  | 61,976 | 6,519 | 55,457 |  |  |  |  |
| 1988 | 43,093 | 18-Sep |  | 1.00 | 43,093 | 3,643 | 39,450 |  |  |  |  |
| 1989 | 60,841 | 1-Oct |  | 1.00 | 60,841 | 4,033 | 56,808 |  |  |  |  |
| 1990 | 75,881 |  |  | 1.00 | 75,881 | 3,685 | 72,196 |  |  |  |  |
| 1991 | 132,923 |  |  | 1.00 | 132,923 | 5,439 | 127,484 |  |  |  |  |
| 1992 | 49,928 | 5-Sep | District 111-32 CPUE | 1.79 | 89,270 | 5,541 | 83,729 | 74,745 | 164,015 | 0.490 | 212,798 |
| 1993 | 67,448 | 11-Sep | District 111-32 CPUE | 1.84 | 123,964 | 4,634 | 119,330 | 35,703 | 159,667 | 0.253 | 249,320 |
| 1994 | 98,643 | 24-Sep | District 111-32 CPUE | 1.13 | 111,036 | 14,693 | 96,343 | 101,292 | 212,328 | 0.546 | 339,736 |
| 1995 | 61,738 | 30-Sep | District 111-32 CPUE | 1.12 | 69,448 | 13,738 | 55,710 | 59,240 | 128,688 | 0.567 | 181,116 |
| 1996 | 44,172 | 28-Sep | District 111-32 CPUE | 1.12 | 49,687 | 5,052 | 44,635 | 17,019 | 66,706 | 0.331 | 94,283 |
| 1997 | 35,035 | 27-Sep | District 111-32 CPUE | 1.00 | 35,035 | 2,690 | 32,345 | 6,479 | 41,514 | 0.221 | 50,886 |
| 1998 | 49,290 | 26-Sep | District 111-32 CPUE | 1.35 | 66,472 | 5,090 | 61,382 | 17,042 | 83,514 | 0.265 | 119,925 |
| 1999 | 59,052 | 3-Oct | Troll CPUE | 1.12 | 66,343 | 5,575 | 60,768 | 9,009 | 75,352 | 0.194 | 117,176 |
| 2000 | 70,147 | 2-Oct | no expansion | 1.00 | 70,147 | 5,447 | 64,700 | 11,520 | 81,667 | 0.208 | 109,148 |
| 2001 | 107,493 | 5-Oct | no expansion | 1.00 | 107,493 | 3,099 | 104,394 | 11,739 | 119,232 | 0.124 | 162,777 |
| 2002 | 223,162 | 7-Oct | no expansion | 1.00 | 223,162 | 3,802 | 219,360 | 33,238 | 256,400 | 0.144 | 303,275 |
| 2003 | 186,755 | 8 -Oct | no expansion | 1.00 | 186,755 | 3,643 | 183,112 | 25,139 | 211,894 | 0.136 | 265,090 |
| 2004 | 139,011 | 8 -Oct | no expansion | 1.00 | 139,011 | 9,684 | 129,327 | 25,898 | 164,909 | 0.216 | 251,537 |
| 2005 | 143,817 | 8-Oct | no expansion | 1.00 | 143,817 | 8,259 | 135,558 | 21,718 | 165,535 | 0.181 | 222,997 |
| 2006 | 134,053 | 8-Oct | no expansion | 1.00 | 134,053 | 11,669 | 122,384 | 36,170 | 170,223 | 0.281 | 226,694 |
| 2007 | 82,319 | 8 -Oct | no expansion | 1.00 | 82,319 | 8,073 | 74,246 | 16,617 | 98,936 | 0.250 | 133,301 |
| 2008 | 99,199 | 8-Oct | no expansion | 1.00 | 99,199 | 3,973 | 95,226 | 24,390 | 123,589 | 0.229 | 174,070 |
| 2009 | 113,716 | 8 -Oct | no expansion | 1.00 | 113,716 | 9,766 | 103,950 | 42,946 | 156,662 | 0.336 | 224,010 |
| 2010 | 141,238 | 8 -Oct | no expansion | 1.00 | 141,238 | 14,408 | 126,830 | 55,254 | 196,492 | 0.355 | 246,822 |
| 2011 | 83,349 | 9 -Oct | no expansion | 1.00 | 83,349 | 12,478 | 70,871 | 9,393 | 92,742 | 0.236 | 129,939 |
| 2012 | 61,797 | 15-Sep | CYI run timing | 1.37 | 84,847 | 14,072 | 70,775 | 11,554 | 96,401 | 0.266 | 112,947 |
| 2013 | 55,161 | 12-Sep | CYI run timing | 1.42 | 78,492 | 10,375 | 68,117 | 25,300 | 103,792 | 0.344 | 143,410 |
| 2014 | 140,739 | $9-\mathrm{Oct}$ | no expansion | 1.00 | 140,739 | 16,568 | 124,171 | 31,149 | 171,888 | 0.278 | 189,655 |
| 2015 | 70,361 | 9 -Oct | no expansion | 1.00 | 70,361 | 10,183 | 60,178 | 9,558 | 79,919 | 0.247 | 104,344 |
| 2016 | 99,224 | $9-\mathrm{Oct}$ | no expansion | 1.00 | 99,224 | 11,520 | 87,704 | 13,930 | 113,154 | 0.225 | 125,323 |
| 2017 | 65,670 | 4-Oct | no expansion | 1.00 | 65,670 | 7,802 | 57,868 | 13,516 | 79,186 | 0.269 | 108,263 |
| 2018 | 60,678 | 3-Oct | no expansion | 1.00 | 60,678 | 9,505 | 51,173 | 12,627 | 73,305 | 0.302 | 82,675 |
| Averag |  |  |  |  |  |  |  |  |  |  |  |
| 87-17 | 92,444 | 30-Sep |  | 1.12 | 98,373 | 7,908 | 90,465 | 28,445 | 131,323 | 0.28 | 176,879 |
| 07-18 | 93,045 | 3-Oct |  | 1.08 | 97,683 | 11,115 | 86,569 | 23,699 | 121,382 | 0.28 | 155,878 |

Appendix D. 22. Historical effort in the Alaskan District 111 and Subdistrict 111-32
(Taku Inlet) commercial drift gillnet fishery, 1960-2018.

| Days open are for the entire district and include openings to spawner chinook salmon, 1960-1975. |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | D111 |  | D111-32 |  | $\begin{array}{r} \text { PU } \\ \text { Permits } \end{array}$ |
| Year | Boat <br> Days | Days <br> Open | Boat <br> Days | Days <br> Open |  |
| 1960 |  | 60.00 | 1,680 | 60.00 |  |
| 1961 |  | 62.00 | 2,901 | 62.00 |  |
| 1962 |  | 52.00 | 1,568 | 52.00 |  |
| 1963 |  | 54.00 | 1,519 | 51.00 |  |
| 1964 |  | 56.00 | 1,491 | 56.00 |  |
| 1965 |  | 63.00 | 1,332 | 60.00 |  |
| 1966 |  | 64.00 | 1,535 | 58.00 |  |
| 1967 |  | 53.00 | 1,663 | 50.00 |  |
| 1968 |  | 60.00 | 2,420 | 60.00 |  |
| 1969 | 1,518 | 41.50 | 1,413 | 42.00 |  |
| 1970 | 2,688 | 53.00 | 2,425 | 53.00 |  |
| 1971 | 3,053 | 55.00 | 2,849 | 55.00 |  |
| 1972 | 3,103 | 51.00 | 2,797 | 51.00 |  |
| 1973 | 3,286 | 41.00 | 3,135 | 41.00 |  |
| 1974 | 2,315 | 29.50 | 1,741 | 30.00 |  |
| 1975 | 1,084 | 15.50 | 986 | 15.00 |  |
| 1976 | 1,914 | 25.00 | 1,582 | 23.00 |  |
| 1977 | 2,258 | 27.00 | 1,879 | 27.00 |  |
| 1978 | 2,174 | 26.00 | 1,738 | 24.00 |  |
| 1979 | 2,269 | 28.83 | 2,011 | 29.00 |  |
| 1980 | 4,123 | 30.92 | 3,634 | 31.00 |  |
| 1981 | 2,687 | 30.00 | 1,740 | 22.00 |  |
| 1982 | 2,433 | 35.50 | 2,130 | 36.00 |  |
| 1983 | 1,274 | 33.00 | 1,065 | 31.00 |  |
| 1984 | 2,757 | 52.50 | 2,120 | 39.00 |  |
| 1985 | 3,264 | 48.00 | 2,116 | 37.00 | 54 |
| 1986 | 2,129 | 32.83 | 1,413 | 30.00 |  |
| 1987 | 2,514 | 34.75 | 1,517 | 30.00 |  |
| 1988 | 2,135 | 32.00 | 1,213 | 29.00 |  |
| 1989 | 2,333 | 41.00 | 1,909 | 36.00 | 75 |
| 1990 | 3,188 | 38.33 | 2,879 | 38.00 | 95 |
| 1991 | 4,145 | 57.00 | 3,324 | 52.00 | 88 |
| 1992 | 4,550 | 50.00 | 3,407 | 43.00 | 125 |
| 1993 | 3,827 | 43.00 | 3,372 | 43.00 | 128 |
| 1994 | 5,078 | 66.00 | 3,960 | 60.00 | 116 |
| 1995 | 4,034 | 49.00 | 3,061 | 45.00 | 106 |
| 1996 | 3,229 | 46.00 | 2,685 | 41.00 | 130 |
| 1997 | 2,107 | 33.00 | 1,761 | 30.00 | 123 |
| 1998 | 3,070 | 48.00 | 2,007 | 39.00 | 130 |
| 1999 | 2,841 | 59.00 | 2,563 | 58.00 | 147 |
| 2000 | 2,919 | 40.00 | 2,325 | 38.00 | 128 |
| 2001 | 4,731 | 54.00 | 3,635 | 55.00 | 163 |
| 2002 | 4,095 | 62.00 | 2,792 | 54.00 | 136 |
| 2003 | 3,977 | 73.50 | 2,685 | 64.50 | 133 |
| 2004 | 3,342 | 59.00 | 1,627 | 50.00 | 131 |
| 2005 | 3,427 | 68.00 | 2,947 | 65.00 | 132 |
| 2006 | 3,517 | 89.00 | 2,470 | 81.00 | 105 |
| 2007 | 3,505 | 64.00 | 2,941 | 64.00 | 91 |
| 2008 | 3,116 | 49.00 | 2,223 | 46.00 | 125 |
| 2009 | 3,438 | 62.00 | 2,524 | 57.00 | 113 |
| 2010 | 2,764 | 54.00 | 2,357 | 54.00 | 120 |
| 2011 | 3,303 | 46.00 | 2,669 | 46.00 | 133 |
| 2012 | 2,463 | 43.00 | 1,620 | 42.00 | 153 |
| 2013 | 3,311 | 62.00 | 2,375 | 61.00 | 158 |
| 2014 | 3,164 | 65.00 | 2,422 | 65.00 | 135 |
| 2015 | 2,096 | 44.00 | 1,745 | 43.00 | 119 |
| 2016 | 2,850 | 56.00 | 2,022 | 52.00 | 138 |
| 2017 | 3,388 | 43.00 | 1,986 | 36.00 | 106 |
| 2018 | 3,080 | 44.00 | 1,877 | 39.00 | 110 |
| Averag |  |  |  |  |  |
| 60-17 | 2,987 | 49 | 2,244 | 46 |  |
| 08-17 | 2,989 | 52 | 2,194 | 50 | 130 |

Appendix D. 23. Historical effort in the Canadian commercial fishery in the Taku River, 1979-2018.

|  | Commercial |  |
| :--- | ---: | ---: |
| Year | Boat <br> Days | Days <br> Open |
| 1979 | 599 | 50 |
| 1980 | 476 | 39 |
| 1981 | 243 | 31 |
| 1982 | 38 | 13 |
| 1983 | 390 | 64 |
| 1984 | 288 | 30 |
| 1985 | 178 | 16 |
| 1986 | 148 | 17 |
| 1987 | 280 | 26 |
| 1988 | 185 | 15 |
| 1989 | 271 | 25 |
| 1990 | 295 | 28 |
| 1991 | 284 | 25 |
| 1992 | 291 | 27 |
| 1993 | 363 | 34 |
| 1994 | 497 | 74 |
| 1995 | 428 | 51 |
| 1996 | 415 | 65 |
| 1997 | 394 | 47 |
| 1998 | 299 | 42 |
| 1999 | 300 | 34 |
| 2000 | 351 | 39 |
| 2001 | 382 | 42 |
| 2002 | 286 | 33 |
| 2003 | 275 | 44 |
| 2004 | 294 | 40 |
| 2005 | 561 | 68 |
| 2006 | 518 | 77 |
| 2007 | 313 | 55 |
| 2008 | 245 | 33 |
| 2009 | 459 | 98 |
| 2010 | 396 | 62 |
| 2011 | 440 | 63 |
| 2012 | 330 | 50 |
| 2013 | 346 | 53 |
| 2014 | 437 | 53 |
| 2015 | 271 | 35 |
| 2016 | 314 | 60 |
| 2017 | 260 | 37 |
| 2018 | 237 | 38 |
| Averages |  |  |
| -17 | 337 | 43 |
|  | 350 | 54 |

Appendix D. 24. Canyon Island fish wheel salmon counts and periods of operation on the Taku River, 1984-2018.

| Total | from both fi | wheels and | suppleme | Inets w | en water |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| In 201 | ion for comp | sons to lo | g-term av | fish wh | s not ru | rs due | change | sample | ethods | ly chec | h nigh | ne fish | stops |  |
| Year | Period of Operation | Catch |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Traditional - CYI Fish Wheel 1 and 2 |  |  |  |  | Pink |  | Downriver Fish Wheel 3 |  |  |  |  |  |
|  |  | Chinook | Sockeye | Coho | Pink | Chum even year |  | odd year | Chinook | Sockeye | Coho | Pink | Chum Steelhead |  |
| 1984 | 6/15-9/18 | 138 | 2,334 | 889 | 20,751 | 316 | 20,751 |  |  |  |  |  |  |  |
| 1985 | 6/16-9/21 | 184 | 3,601 | 1,207 | 27,670 | 1,376 |  | 27,670 |  |  |  |  |  |  |
| 1986 | 6/14-8/25 | 571 | 5,808 | 758 | 7,256 | 80 | 7,256 |  |  |  |  |  |  |  |
| 1987 | 6/15-9/20 | 285 | 4,307 | 2,240 | 42,786 | 1,533 |  | 42,786 |  |  |  |  |  | 34 |
| 1988 | 5/11-9/19 | 1,436 | 3,292 | 2,168 | 3,982 | 1,089 | 3,982 |  |  |  |  |  |  | 34 |
| 1989 | 5/05-10/01 | 1,811 | 5,650 | 2,243 | 31,189 | 645 |  | 31,189 |  |  |  |  |  | 38 |
| 1990 | 5/03-9/23 | 1,972 | 6,091 | 1,860 | 13,358 | 748 | 13,358 |  |  |  |  |  |  | 43 |
| 1991 | 6/08-10/15 | 680 | 5,102 | 4,922 | 23,553 | 1,063 |  | 23,553 |  |  |  |  |  | 138 |
| 1992 | 6/20-9/24 | 212 | 6,279 | 2,103 | 9,252 | 189 | 9,252 |  |  |  |  |  |  | 22 |
| 1993 | 6/12-9/29 | 562 | 8,975 | 2,552 | 1,625 | 345 |  | 1,625 |  |  |  |  |  | 16 |
| 1994 | 6/10-9/21 | 906 | 6,485 | 4,792 | 27,100 | 367 | 27,100 |  |  |  |  |  |  | 107 |
| 1995 | 5/4-9/27 | 1,535 | 6,228 | 2,535 | 1,712 | 218 |  | 1,712 |  |  |  |  |  | 61 |
| 1996 | 5/3-9/20 | 1,904 | 5,919 | 1,895 | 21,583 | 388 | 21,583 |  |  |  |  |  |  | 68 |
| 1997 | 5/3-10/1 | 1,321 | 5,708 | 1,665 | 4,962 | 485 |  | 4,962 |  |  |  |  |  | 103 |
| 1998 | 5/2-9/15 | 894 | 4,230 | 1,777 | 23,347 | 179 | 23,347 |  |  |  |  |  |  | 119 |
| 1999 | 5/3-10/3 | 440 | 4,636 | 1,848 | 23,503 | 164 |  | 23,503 |  |  |  |  |  | 119 |
| 2000 | 4/23-10/3 | 1,211 | 5,865 | 1,877 | 6,529 | 423 | 6,529 |  |  |  |  |  |  | 160 |
| 2001 | 4/23-10/5 | 1,262 | 6,201 | 2,380 | 9,134 | 250 |  | 9,134 |  |  |  |  |  | 125 |
| 2002 | 4/24-10/7 | 1,578 | 5,812 | 3,766 | 5,672 | 205 | 5,672 |  |  |  |  |  |  | 87 |
| 2003 | 4/20-10/08 | 1,351 | 5,970 | 3,002 | 15,492 | 268 |  | 15,492 |  |  |  |  |  | 93 |
| 2004 | 4/30-10/06 | 2,234 | 6,255 | 3,163 | 8,464 | 414 | 8,464 |  |  |  |  |  |  | 63 |
| 2005 | 4/25-10/05 | 517 | 3,953 | 1,476 | 15,839 | 258 |  | 15,839 |  |  |  |  |  | 79 |
| 2006 | 4/27-10/03 | 544 | 5,296 | 2,811 | 21,725 | 466 | 21,725 |  |  |  |  |  |  | 47 |
| 2007 | 4/27-10/01 | 430 | 7,698 | 2,117 | 12,405 | 482 |  | 12,405 |  |  |  |  |  | 57 |
| 2008 | 4/23-10/03 | 1,298 | 3,736 | 2,213 | 4,704 | 350 | 4,704 |  |  |  |  |  |  |  |
| 2009 | 4/24-9/27 | 688 | 3,489 | 3,051 | 9,234 | 231 |  | 9,225 |  |  |  |  |  | 52 |
| 2010 | 4/24-9/27 | 778 | 3,244 | 2,123 | 8,868 | 94 | 8,868 |  |  |  |  |  |  | 176 |
| 2011 | 4/25-10/02 | 728 | 3,671 | 1,843 | 17,775 | 177 |  | 17,775 |  |  |  |  |  | 93 |
| 2012 | 5/21-9/15 | 598 | 4,441 | 965 | 5,826 | 232 | 5,826 |  |  |  |  |  |  | 24 |
| 2013 | 6/16-9/9 | 796 | 4,240 | 1,132 | 4,666 | 269 |  | 4,666 |  |  |  |  |  | 11 |
| 2014 | 4/25-10/3 | 609 | 5,342 | 3,646 | 2,436 | 310 | 2,436 |  |  |  |  |  |  |  |
| 2015 | 4/29-10/3 | 627 | 5,069 | 1,889 | 24,246 | 95 |  | 24,246 |  |  |  |  |  | 47 |
| 2016 | 5/3-9/27 | 142 | 4,942 | 981 | 1,369 | 66 | 1,369 |  | 164 | 1,419 | 148 | 1,838 | 15 |  |
| 2017 | 5/18-9/30 | 293 | 4,771 | 875 | 18,520 | 236 |  | 18,520 | 30 | 1,085 | 256 | 13,507 | 21 |  |
| 2018 | 6/3-9/23 | 155 | 3,239 | 798 | 1,604 | 32 | 1,604 |  |  |  |  |  |  | 12 |
| Averag |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 84-17 |  | 877 | 5,082 | 2,159 | 13,661 | 401 | 11,307 | 16,724 |  |  |  |  |  |  |
| 08-17 |  | 656 | 4,295 | 1,872 | 9,764 | 206 | 4,641 | 14,886 |  |  |  |  |  |  |

Appendix E. 1. Weekly salmon harvest and effort in the lower Alsek River fisheries, 2018.

| SW | Chinook | Sockeye | Coho | Pink | Chum | Effort |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  | Boats | Days Open | Boat Days |
| No Test fishery in 2018 |  |  |  |  |  |  |  |  |
| Commercial Fishery |  |  |  |  |  |  |  |  |
| 23 |  |  |  |  |  |  |  | 0.0 |
| 24 |  |  |  |  |  |  |  | 0.0 |
| 25 | 15 | 59 |  |  |  | 9 | 1.0 | 9.0 |
| 26 | 70 | 322 |  |  |  | 9 | 1.0 | 9.0 |
| 27 | 0 | 0 |  |  |  | 0 | 0.0 | 0.0 |
| 28 | 3 | 397 |  |  |  | 8 | 0.5 | 4.0 |
| 29 |  | 0 |  |  |  | 0 | 0.0 | 0.0 |
| 30 |  | 471 |  |  |  | 10 | 1.0 | 10.0 |
| 31-35 | 0 | 114 | 2 | 0 | 0 | 5 | 11 | 7.0 |
| 36 |  |  |  |  |  | 0 | 3.0 | 0.0 |
| 37 |  |  |  |  |  | 0 | 3.0 | 0.0 |
| 38 |  |  |  |  |  | 0 | 3.0 | 0.0 |
| 39 |  |  |  |  |  | 0 | 3.0 | 0.0 |
| 40 |  |  |  |  |  | 0 | 3.0 | 0.0 |
| 41 |  |  |  |  |  | 0 | 3.0 | 0.0 |
| Total | 88 | 1,363 | 2 | 0 | 0 | 10 | 32.5 | 39 |

Appendix E. 2. Weekly salmon harvest and effort in the Canadian Aboriginal and sport fisheries in the Alsek River, 2018.
Aboriginal includes estimates of sport catch (kept and released) in Takhanne and Blanchard rivers;


Appendix E. 3. Daily counts of salmon passing through Klukshu River weir, 2018.

| Date | All Chinook |  |  | Sockeye |  |  | Coho |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Daily | Cumulative |  | Daily | Cumulative |  | Daily | Cumulative |  |
|  |  | Daily | Prop. |  | Daily | Prop. |  | Daily | Prop. |
| 14-Jun | weir installed |  | 0.00 | weir installed |  | 0.00 | weir installed |  | 0.00 |
| 15-Jun | 0 | 0 | 0.00 | 0 | 0 | 0.00 | 0 | 0 | 0.00 |
| 16-Jun | 1 | 1 | 0.00 | 0 | 0 | 0.00 | 0 | 0 | 0.00 |
| 17-Jun | 0 | 1 | 0.00 | 0 | 0 | 0.00 | 0 | 0 | 0.00 |
| 18-Jun | 0 | 1 | 0.00 | 0 | 0 | 0.00 | 0 | 0 | 0.00 |
| 19-Jun | 0 | 1 | 0.00 | 0 | 0 | 0.00 | 0 | 0 | 0.00 |
| 20-Jun | 0 | 1 | 0.00 | 0 | 0 | 0.00 | 0 | 0 | 0.00 |
| 21-Jun | 0 | 1 | 0.00 | 0 | 0 | 0.00 | 0 | 0 | 0.00 |
| 22-Jun | 0 | 1 | 0.00 | 0 | 0 | 0.00 | 0 | 0 | 0.00 |
| 23-Jun | 0 | 1 | 0.00 | 0 | 0 | 0.00 | 0 | 0 | 0.00 |
| 24-Jun | 0 | 1 | 0.00 | 0 | 0 | 0.00 | 0 | 0 | 0.00 |
| 25-Jun | 0 | 1 | 0.00 | 0 | 0 | 0.00 | 0 | 0 | 0.00 |
| 26-Jun | 0 | 1 | 0.00 | 0 | 0 | 0.00 | 0 | 0 | 0.00 |
| 27-Jun | 0 | 1 | 0.00 | 0 | 0 | 0.00 | 0 | 0 | 0.00 |
| 28-Jun | 0 | 1 | 0.00 | 0 | 0 | 0.00 | 0 | 0 | 0.00 |
| 29-Jun | 0 | 1 | 0.00 | 0 | 0 | 0.00 | 0 | 0 | 0.00 |
| 30-Jun | 0 | 1 | 0.00 | 0 | 0 | 0.00 | 0 | 0 | 0.00 |
| 1-Jul | 0 | 1 | 0.00 | 0 | 0 | 0.00 | 0 | 0 | 0.00 |
| 2-Jul | 0 | 1 | 0.00 | 0 | 0 | 0.00 | 0 | 0 | 0.00 |
| 3-Jul | 0 | 1 | 0.00 | 0 | 0 | 0.00 | 0 | 0 | 0.00 |
| 4-Jul | 1 | 2 | 0.00 | 0 | 0 | 0.00 | 0 | 0 | 0.00 |
| 5-Jul | 4 | 6 | 0.01 | 0 | 0 | 0.00 | 0 | 0 | 0.00 |
| 6-Jul | 0 | 6 | 0.01 | 0 | 0 | 0.00 | 0 | 0 | 0.00 |
| 7-Jul | 3 | 9 | 0.01 | 0 | 0 | 0.00 | 0 | 0 | 0.00 |
| 8-Jul | 6 | 15 | 0.01 | 0 | 0 | 0.00 | 0 | 0 | 0.00 |
| 9-Jul | 1 | 16 | 0.01 | 0 | 0 | 0.00 | 0 | 0 | 0.00 |
| 10-Jul | 3 | 19 | 0.02 | 0 | 0 | 0.00 | 0 | 0 | 0.00 |
| 11-Jul | 2 | 21 | 0.02 | 0 | 0 | 0.00 | 0 | 0 | 0.00 |
| 12-Jul | 2 | 23 | 0.02 | 0 | 0 | 0.00 | 0 | 0 | 0.00 |
| 13-Jul | 8 | 31 | 0.03 | 0 | 0 | 0.00 | 0 | 0 | 0.00 |
| 14-Jul | 7 | 38 | 0.03 | 0 | 0 | 0.00 | 0 | 0 | 0.00 |
| 15-Jul | 5 | 43 | 0.04 | 0 | 0 | 0.00 | 0 | 0 | 0.00 |
| 16-Jul | 4 | 47 | 0.04 | 0 | 0 | 0.00 | 0 | 0 | 0.00 |
| 17-Jul | 20 | 67 | 0.06 | 1 | 1 | 0.00 | 0 | 0 | 0.00 |
| 18-Jul | 19 | 86 | 0.08 | 1 | 2 | 0.00 | 0 | 0 | 0.00 |
| 19-Jul | 17 | 103 | 0.09 | 0 | 2 | 0.00 | 0 | 0 | 0.00 |
| 20-Jul | 18 | 121 | 0.11 | 1 | 3 | 0.00 | 0 | 0 | 0.00 |
| 21-Jul | 41 | 162 | 0.15 | 0 | 3 | 0.00 | 0 | 0 | 0.00 |
| 22-Jul | 55 | 217 | 0.20 | 0 | 3 | 0.00 | 0 | 0 | 0.00 |
| 23-Jul | 46 | 263 | 0.24 | 1 | 4 | 0.00 | 0 | 0 | 0.00 |
| 24-Jul | 58 | 321 | 0.30 | 4 | 8 | 0.00 | 0 | 0 | 0.00 |
| 25-Jul | 64 | 385 | 0.35 | 5 | 13 | 0.00 | 0 | 0 | 0.00 |
| 26-Jul | 45 | 430 | 0.40 | 5 | 18 | 0.00 | 0 | 0 | 0.00 |
| 27-Jul | 67 | 497 | 0.46 | 9 | 27 | 0.00 | 0 | 0 | 0.00 |
| 28-Jul | 49 | 546 | 0.50 | 4 | 31 | 0.00 | 0 | 0 | 0.00 |
| 29-Jul | 42 | 588 | 0.54 | 7 | 38 | 0.01 | 0 | 0 | 0.00 |
| 30-Jul | 56 | 644 | 0.59 | 5 | 43 | 0.01 | 0 | 0 | 0.00 |
| 31-Jul | 35 | 679 | 0.62 | 5 | 48 | 0.01 | 0 | 0 | 0.00 |
| 1-Aug | 42 | 721 | 0.66 | 7 | 55 | 0.01 | 0 | 0 | 0.00 |
| 2-Aug | 22 | 743 | 0.68 | 3 | 58 | 0.01 | 0 | 0 | 0.00 |
| 3-Aug | 16 | 759 | 0.70 | 1 | 59 | 0.01 | 0 | 0 | 0.00 |
| 4-Aug | 18 | 777 | 0.71 | 6 | 65 | 0.01 | 0 | 0 | 0.00 |
| 5-Aug | 11 | 788 | 0.72 | 2 | 67 | 0.01 | 0 | 0 | 0.00 |
| 6-Aug | 1 | 789 | 0.73 | 4 | 71 | 0.01 | 0 | 0 | 0.00 |
| 7-Aug | 12 | 801 | 0.74 | 1 | 72 | 0.01 | 0 | 0 | 0.00 |
| 8-Aug | 15 | 816 | 0.75 | 2 | 74 | 0.01 | 0 | 0 | 0.00 |
| 9-Aug | 10 | 826 | 0.76 | 1 | 75 | 0.01 | 0 | 0 | 0.00 |
| 10-Aug | 5 | 831 | 0.76 | 0 | 75 | 0.01 | 0 | 0 | 0.00 |
| 11-Aug | 12 | 843 | 0.78 | 1 | 76 | 0.01 | 0 | 0 | 0.00 |
| 12-Aug | 1 | 844 | 0.78 | 4 | 80 | 0.01 | 0 | 0 | 0.00 |

- Continued -

Appendix E.3. Page 2 of 2.

| Date | All Chinook |  |  | Sockeye |  |  | Coho |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Daily | Cumulative |  | Daily | Cumulative |  | Daily | Cumulative |  |
|  |  | Daily | Prop. |  | Daily | Prop. |  | Daily | Prop. |
| 13-Aug | 12 | 856 | 0.79 | 3 | 83 | 0.01 | 0 | 0 | 0.00 |
| 14-Aug | 17 | 873 | 0.80 | 7 | 90 | 0.01 | 0 | 0 | 0.00 |
| 15-Aug | 21 | 894 | 0.82 | 7 | 97 | 0.01 | 0 | 0 | 0.00 |
| 16-Aug | 30 | 924 | 0.85 | 6 | 103 | 0.01 | 0 | 0 | 0.00 |
| 17-Aug | 17 | 941 | 0.87 | 3 | 106 | 0.01 | 0 | 0 | 0.00 |
| 18-Aug | 15 | 956 | 0.88 | 4 | 110 | 0.02 | 0 | 0 | 0.00 |
| 19-Aug | 25 | 981 | 0.90 | 11 | 121 | 0.02 | 0 | 0 | 0.00 |
| 20-Aug | 26 | 1,007 | 0.93 | 12 | 133 | 0.02 | 0 | 0 | 0.00 |
| 21-Aug | 7 | 1,014 | 0.93 | 12 | 145 | 0.02 | 0 | 0 | 0.00 |
| 22-Aug | 12 | 1,026 | 0.94 | 32 | 177 | 0.02 | 0 | 0 | 0.00 |
| 23-Aug | 15 | 1,041 | 0.96 | 43 | 220 | 0.03 | 0 | 0 | 0.00 |
| 24-Aug | 11 | 1,052 | 0.97 | 53 | 273 | 0.04 | 0 | 0 | 0.00 |
| 25-Aug | 8 | 1,060 | 0.98 | 75 | 348 | 0.05 | 0 | 0 | 0.00 |
| 26-Aug | 2 | 1,062 | 0.98 | 107 | 455 | 0.06 | 0 | 0 | 0.00 |
| 27-Aug | 3 | 1,065 | 0.98 | 111 | 566 | 0.08 | 0 | 0 | 0.00 |
| 28-Aug | 5 | 1,070 | 0.98 | 66 | 632 | 0.09 | 0 | 0 | 0.00 |
| 29-Aug | 0 | 1,070 | 0.98 | 55 | 687 | 0.10 | 0 | 0 | 0.00 |
| 30-Aug | 2 | 1,072 | 0.99 | 131 | 818 | 0.11 | 0 | 0 | 0.00 |
| 31-Aug | 0 | 1,072 | 0.99 | 132 | 950 | 0.13 | 0 | 0 | 0.00 |
| 1-Sep | 3 | 1,075 | 0.99 | 310 | 1,260 | 0.18 | 1 | 1 | 0.00 |
| 2-Sep | 3 | 1,078 | 0.99 | 321 | 1,581 | 0.22 | 0 | 1 | 0.00 |
| 3-Sep | 2 | 1,080 | 0.99 | 202 | 1,783 | 0.25 | 0 | 1 | 0.00 |
| 4-Sep | 1 | 1,081 | 0.99 | 322 | 2,105 | 0.29 | 0 | 1 | 0.00 |
| 5-Sep | 0 | 1,081 | 0.99 | 472 | 2,577 | 0.36 | 0 | 1 | 0.00 |
| 6-Sep | 3 | 1,084 | 1.00 | 272 | 2,849 | 0.40 | 0 | 1 | 0.00 |
| 7-Sep | 0 | 1,084 | 1.00 | 327 | 3,176 | 0.44 | 0 | 1 | 0.00 |
| 8-Sep | 3 | 1,087 | 1.00 | 370 | 3,546 | 0.50 | 0 | 1 | 0.00 |
| 9-Sep | 0 | 1,087 | 1.00 | 451 | 3,997 | 0.56 | 0 | 1 | 0.00 |
| 10-Sep | 0 | 1,087 | 1.00 | 383 | 4,380 | 0.61 | 0 | 1 | 0.00 |
| 11-Sep | 0 | 1,087 | 1.00 | 552 | 4,932 | 0.69 | 1 | 2 | 0.00 |
| 12-Sep | 0 | 1,087 | 1.00 | 314 | 5,246 | 0.73 | 0 | 2 | 0.00 |
| 13-Sep | 0 | 1,087 | 1.00 | 491 | 5,737 | 0.80 | 1 | 3 | 0.00 |
| 14-Sep | 0 | 1,087 | 1.00 | 324 | 6,061 | 0.85 | 0 | 3 | 0.00 |
| 15-Sep | 0 | 1,087 | 1.00 | 230 | 6,291 | 0.88 | 1 | 4 | 0.01 |
| 16-Sep | 0 | 1,087 | 1.00 | 133 | 6,424 | 0.90 | 0 | 4 | 0.01 |
| 17-Sep | 0 | 1,087 | 1.00 | 104 | 6,528 | 0.91 | 0 | 4 | 0.01 |
| 18-Sep | 0 | 1,087 | 1.00 | 74 | 6,602 | 0.92 | 1 | 5 | 0.01 |
| 19-Sep | 0 | 1,087 | 1.00 | 77 | 6,679 | 0.94 | 2 | 7 | 0.01 |
| 20-Sep | 0 | 1,087 | 1.00 | 108 | 6,787 | 0.95 | 4 | 11 | 0.02 |
| 21-Sep | 0 | 1,087 | 1.00 | 69 | 6,856 | 0.96 | 5 | 16 | 0.02 |
| 22-Sep | 0 | 1,087 | 1.00 | 63 | 6,919 | 0.97 | 9 | 25 | 0.03 |
| 23-Sep | 0 | 1,087 | 1.00 | 54 | 6,973 | 0.98 | 37 | 62 | 0.09 |
| 24-Sep | 0 | 1,087 | 1.00 | 38 | 7,011 | 0.98 | 50 | 112 | 0.15 |
| 25-Sep | 0 | 1,087 | 1.00 | 39 | 7,050 | 0.99 | 87 | 199 | 0.27 |
| 26-Sep | 0 | 1,087 | 1.00 | 32 | 7,082 | 0.99 | 94 | 293 | 0.40 |
| 27-Sep | 0 | 1,087 | 1.00 | 34 | 7,116 | 1.00 | 86 | 379 | 0.52 |
| 28-Sep | 0 | 1,087 | 1.00 | 11 | 7,127 | 1.00 | 52 | 431 | 0.59 |
| 29-Sep | 0 | 1,087 | 1.00 | 1 | 7,128 | 1.00 | 66 | 497 | 0.68 |
| 30-Sep | 0 | 1,087 | 1.00 | 6 | 7,134 | 1.00 | 56 | 553 | 0.76 |
| 1-Oct | 0 | 1,087 | 1.00 | 4 | 7,138 | 1.00 | 44 | 597 | 0.82 |
| 2-Oct | 0 | 1,087 | 1.00 | 1 | 7,139 | 1.00 | 49 | 646 | 0.89 |
| 3-Oct | 0 | 1,087 | 1.00 | 2 | 7,141 | 1.00 | 45 | 691 | 0.95 |
| 4-Oct | weir removed | 1,087 | 1.00 | 2 | 7,143 | 1.00 | 37 | 728 | 1.00 |
| Total Count |  | 1,087 |  |  | 7,143 |  |  | 728 |  |
| Adjustments |  |  |  |  |  |  |  |  |  |
| Harvest at weir |  |  |  |  |  |  |  |  |  |
| Harvest above weir |  |  |  |  |  |  |  |  |  |
| Total Escapement |  | 1,087 |  |  | 7,143 |  |  | 728 |  |

Appendix E. 4. Chinook salmon harvest in the U.S. fisheries in the Alsek River, 19602018.

| Year | Commercial | Test | Subsistence |
| :---: | :---: | :---: | :---: |
| 1960 |  |  |  |
| 1961 | 2,120 |  |  |
| 1962 |  |  |  |
| 1963 | 131 |  |  |
| 1964 | 591 |  |  |
| 1965 | 719 |  |  |
| 1966 | 934 |  |  |
| 1967 | 225 |  |  |
| 1968 | 215 |  |  |
| 1969 | 685 |  |  |
| 1970 | 1,128 |  |  |
| 1971 | 1,222 |  |  |
| 1972 | 1,827 |  |  |
| 1973 | 1,757 |  |  |
| 1974 | 1,162 |  |  |
| 1975 | 1,379 |  |  |
| 1976 | 512 |  | 13 |
| 1977 | 1,402 |  | 18 |
| 1978 | 2,441 |  |  |
| 1979 | 2,525 |  | 80 |
| 1980 | 1,382 |  | 57 |
| 1981 | 779 |  | 32 |
| 1982 | 532 |  | 87 |
| 1983 | 94 |  | 31 |
| 1984 | 60 |  |  |
| 1985 | 213 |  | 16 |
| 1986 | 481 |  | 22 |
| 1987 | 347 |  | 27 |
| 1988 | 223 |  | 13 |
| 1989 | 228 |  | 20 |
| 1990 | 78 |  | 85 |
| 1991 | 103 |  | 38 |
| 1992 | 301 |  | 15 |
| 1993 | 300 |  | 38 |
| 1994 | 805 |  | 60 |
| 1995 | 670 |  | 51 |
| 1996 | 772 |  | 60 |
| 1997 | 568 |  | 38 |
| 1998 | 550 |  | 63 |
| 1999 | 482 |  | 44 |
| 2000 | 677 |  | 73 |
| 2001 | 541 |  | 19 |
| 2002 | 700 |  | 60 |
| 2003 | 937 |  | 24 |
| 2004 | 656 |  | 51 |
| 2005 | 286 | 423 | 31 |
| 2006 | 530 | 135 | 47 |
| 2007 | 400 | 347 | 79 |
| 2008 | 128 | 465 | 34 |
| 2009 | 602 | 421 | 57 |
| 2010 | 273 |  | 70 |
| 2011 | 546 |  | 44 |
| 2012 | 510 | 251 | 63 |
| 2013 | 469 |  | 20 |
| 2014 | 1,074 |  | 40 |
| 2015 | 243 |  | 23 |
| 2016 | 132 |  | 11 |
| 2017 | 127 |  | 7 |
| 2018 | 88 |  | 28 |
| Averages |  |  |  |
| 61-16 | 703 |  | 41 |
| 07-16 | 438 |  | 44 |

Appendix E. 5. Klukshu River counts, harvest, and escapement of Chinook salmon, 1976-2018.
A portion of Klukshu River sockeye salmon harvested below weir are accounted for in drainagewide harvest estimate see E.6.

| Year | Weir <br> Count | Harvest |  | Escapement |
| :---: | :---: | :---: | :---: | :---: |
|  |  | At weir | Above weir |  |
| 1976 | 1,278 |  | 125 | 1,153 |
| 1977 | 3,144 |  | 250 | 2,894 |
| 1978 | 2,976 |  | 300 | 2,676 |
| 1979 | 4,404 |  | 1,950 | 2,454 |
| 1980 | 2,637 |  | 150 | 2,487 |
| 1981 | 2,113 |  | 150 | 1,963 |
| 1982 | 2,369 |  | 400 | 1,969 |
| 1983 | 2,537 |  | 300 | 2,237 |
| 1984 | 1,672 |  | 100 | 1,572 |
| 1985 | 1,458 |  | 175 | 1,283 |
| 1986 | 2,709 |  | 102 | 2,607 |
| 1987 | 2,616 |  | 125 | 2,491 |
| 1988 | 2,037 |  | 43 | 1,994 |
| 1989 | 2,456 |  | 167 | 2,289 |
| 1990 | 1,915 |  | 173 | 1,742 |
| 1991 | 2,489 |  | 241 | 2,248 |
| 1992 | 1,367 |  | 125 | 1,242 |
| 1993 | 3,302 |  | 82 | 3,220 |
| 1994 | 3,727 |  | 99 | 3,628 |
| 1995 | 5,678 |  | 284 | 5,394 |
| 1996 | 3,599 |  | 217 | 3,382 |
| 1997 | 2,989 |  | 160 | 2,829 |
| 1998 | 1,364 |  | 17 | 1,347 |
| 1999 | 2,193 |  | 25 | 2,168 |
| 2000 | 1,365 |  | 44 | 1,321 |
| 2001 | 1,825 |  | 87 | 1,738 |
| 2002 | 2,240 |  | 106 | 2,134 |
| 2003 | 1,737 |  | 76 | 1,661 |
| 2004 | 2,525 |  | 80 | 2,445 |
| 2005 | 1,070 |  | 107 | 963 |
| 2006 | 568 |  | 2 | 566 |
| 2007 | 677 |  | 1 | 676 |
| 2008 | 466 |  | 0 | 466 |
| 2009 | 1,571 | 1 | 52 | 1,518 |
| 2010 | 2,358 | 0 | 99 | 2,259 |
| 2011 | 1,671 | 3 | 58 | 1,610 |
| 2012 | 693 | 0 | 0 | 693 |
| 2013 | 1,261 | 0 | 34 | 1,227 |
| 2014 | 841 | 0 | 9 | 832 |
| 2015 | 1,432 | 0 | 44 | 1,388 |
| 2016 | 651 | 0 | 5 | 646 |
| 2017 | 448 | 0 | 5 | 443 |
| 2018 | 1,087 | 0 | 0 | 1,087 |
| Averages |  |  |  |  |
| 76-17 | 2,058 |  | 156 | 1,901 |
| 08-17 | 1,139 |  | 31 | 1,108 |

2012 weir count was adjusted to account for high water years when weir was disabled

Appendix E. 6. Chinook salmon harvest in the Canadian Aboriginal and recreational fisheries in the Alsek River, 1976-2018.
All Klukshu harvest is included in the Alsek River harvest totals.

| Year | Harvest |  |  |
| :---: | :---: | :---: | :---: |
|  | Aboriginal | Recreational | Total |
| 1976 | 150 | 200 | 350 |
| 1977 | 350 | 300 | 650 |
| 1978 | 350 | 300 | 650 |
| 1979 | 1,300 | 650 | 1,950 |
| 1980 | 150 | 200 | 350 |
| 1981 | 150 | 315 | 465 |
| 1982 | 400 | 224 | 624 |
| 1983 | 300 | 312 | 612 |
| 1984 | 100 | 475 | 575 |
| 1985 | 175 | 250 | 425 |
| 1986 | 102 | 165 | 267 |
| 1987 | 125 | 367 | 492 |
| 1988 | 43 | 249 | 292 |
| 1989 | 234 | 272 | 506 |
| 1990 | 202 | 555 | 757 |
| 1991 | 509 | 388 | 897 |
| 1992 | 148 | 103 | 251 |
| 1993 | 152 | 171 | 323 |
| 1994 | 289 | 197 | 486 |
| 1995 | 580 | 1,044 | 1,624 |
| 1996 | 448 | 650 | 1,098 |
| 1997 | 232 | 298 | 530 |
| 1998 | 171 | 175 | 346 |
| 1999 | 238 | 174 | 412 |
| 2000 | 65 | 77 | 142 |
| 2001 | 120 | 157 | 277 |
| 2002 | 120 | 197 | 317 |
| 2003 | 90 | 138 | 228 |
| 2004 | 139 | 46 | 185 |
| 2005 | 58 | 56 | 114 |
| 2006 | 2 | 17 | 19 |
| 2007 | 1 | 40 | 41 |
| 2008 | 0 | 7 | 7 |
| 2009 | 105 | 20 | 125 |
| 2010 | 197 | 97 | 294 |
| 2011 | 119 | 95 | 214 |
| 2012 | 0 | 85 | 85 |
| 2013 | 67 | 5 | 72 |
| 2014 | 17 | 26 | 43 |
| 2015 | 87 | 44 | 131 |
| 2016 | 10 | 80 | 90 |
| 2017 | 10 | 41 | 51 |
| 2018 | 0 | 0 | 0 |
| Averages |  |  |  |
| 76-17 | 193 | 221 | 414 |
| 08-17 | 61 | 50 | 111 |

Appendix E. 7. Chinook salmon above border run and harvest in the Canadian
Aboriginal and recreational fisheries in the Alsek River, 1976-2018.

| All Klukshu harvest is included in the Alsek River harvest totals. |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | CI |  | Harvest |  |  |  | Total |
| Year | Above border run | Method ${ }^{\text {a }}$ | Lower | Upper | Aboriginal | Recreational | Total | Escapement | Inriver run |
| 1998 | 7,179 | Mark-recapture | 3,027 | 9,765 | 171 | 175 | 346 | 6,833 | 7,929 |
| 1999 | 15,027 | Mark-recapture | 8,243 | 22,035 | 238 | 174 | 412 | 14,615 | 15,587 |
| 2000 | 8,047 | Mark-recapture | 6,805 | 14,308 | 65 | 77 | 142 | 7,905 | 8,807 |
| 2001 | 6,982 | Mark-recapture | 9,146 | 14,303 | 120 | 157 | 277 | 6,705 | 7,943 |
| 2002 | 5,886 | Mark-recapture | 8,345 | 10,790 | 120 | 197 | 317 | 5,569 | 6,593 |
| 2003 | 6,132 | Mark-recapture | 4,302 | 6,310 | 90 | 138 | 228 | 5,904 | 6,872 |
| 2004 | 7,268 | Mark-recapture |  |  | 139 | 46 | 185 | 7,083 | 7,980 |

Appendix E. 8. Aerial survey index counts of Alsek River Chinook salmon escapements, 1984-2018.

| Takhanne River aerial surveys |  |  |  |
| :--- | :---: | :---: | :---: |
|  | Blanchard <br> River | Takhanne <br> River | Goat <br> Creek |
| Year | 304 | 158 | 28 |
| 1984 | 232 | 184 |  |
| 1985 | 556 | 358 | 142 |
| 1986 | 624 | 395 | 85 |
| 1987 | 437 | 169 | 54 |
| 1988 | No survey | 158 | 34 |
| 1989 | No survey | 325 | 32 |
| 1990 | 121 | 86 | 63 |
| 1991 | 86 | 77 | 16 |
| 1992 | 326 | 351 | 50 |
| 1993 | 349 | 342 | 67 |
| 1994 | 338 | 260 | $a$ |
| 1995 | 132 | 230 | 12 |
| 1996 | 109 | 190 |  |
| 1997 | 71 | 136 | 39 |
| 1998 | 371 | 194 | 51 |
| 1999 | 163 | 152 | 33 |
| 2000 | 543 | 287 | 21 |
| 2001 | 351 | 220 | 86 |
| 2002 | 127 | 105 | 10 |
| 2003 | 84 | 46 | No survey |
| 2004 | 112 | 47 | 7 |
| 2005 | 98 | 28 | 9 |
| 2006 | 39 | 32 | 45 |
| 2007 | 65 | 41 | 11 |
| 2008 | No surveys |  |  |
| 2009 | No surveys |  |  |
| 2010 | No surveys |  |  |
| 2011 | No surveys |  |  |
| 2012 | No surveys |  |  |
| 2013 | No surveys |  |  |
| 2014 | No surveys |  |  |
| 2015 | No surveys |  |  |
| 2016 | No surveys |  |  |
| 2017 | No survey | 127 | No survey |
| 2018 | Late |  |  |

${ }^{\text {a }}$ Late survey date which missed the peak of spawning.

Appendix E. 9. Sockeye salmon harvest in the U.S. fisheries in the Alsek River, 1960-

| 2018. |  |  |  |
| :---: | :---: | :---: | :---: |
| Year | Commercial | Test | Subsistence |
| 1960 |  |  |  |
| 1961 | 23,339 |  |  |
| 1962 |  |  |  |
| 1963 | 6,055 |  |  |
| 1964 | 14,127 |  |  |
| 1965 | 28,487 |  |  |
| 1966 | 29,091 |  |  |
| 1967 | 11,108 |  |  |
| 1968 | 26,918 |  |  |
| 1969 | 29,259 |  |  |
| 1970 | 22,654 |  |  |
| 1971 | 25,314 |  |  |
| 1972 | 18,717 |  |  |
| 1973 | 26,523 |  |  |
| 1974 | 16,747 |  |  |
| 1975 | 13,842 |  |  |
| 1976 | 19,741 |  | 51 |
| 1977 | 40,780 |  | 113 |
| 1978 | 50,580 |  |  |
| 1979 | 41,449 |  | 35 |
| 1980 | 25,522 |  | 41 |
| 1981 | 23,641 |  | 50 |
| 1982 | 27,443 |  | 75 |
| 1983 | 18,293 |  | 25 |
| 1984 | 14,326 |  |  |
| 1985 | 5,792 |  | 95 |
| 1986 | 24,791 |  | 241 |
| 1987 | 11,393 |  | 173 |
| 1988 | 6,286 |  | 148 |
| 1989 | 13,513 |  | 131 |
| 1990 | 17,013 |  | 144 |
| 1991 | 17,542 |  | 104 |
| 1992 | 19,298 |  | 37 |
| 1993 | 20,043 |  | 96 |
| 1994 | 19,639 |  | 47 |
| 1995 | 33,112 |  | 167 |
| 1996 | 15,182 |  | 67 |
| 1997 | 25,879 |  | 273 |
| 1998 | 15,007 |  | 158 |
| 1999 | 11,441 |  | 152 |
| 2000 | 9,522 |  | 146 |
| 2001 | 13,995 |  | 72 |
| 2002 | 16,918 |  | 232 |
| 2003 | 39,698 |  | 176 |
| 2004 | 18,030 |  | 224 |
| 2005 | 7,572 | 222 | 63 |
| 2006 | 9,842 | 224 | 272 |
| 2007 | 19,795 | 367 | 298 |
| 2008 | 2,815 | 55 | 200 |
| 2009 | 12,906 |  | 252 |
| 2010 | 12,668 |  | 259 |
| 2011 | 24,169 | 157 | 230 |
| 2012 | 18,217 | 90 | 275 |
| 2013 | 7,517 |  | 147 |
| 2014 | 33,668 |  | 179 |
| 2015 | 16,104 |  | 163 |
| 2016 | 6,709 |  | 181 |
| 2017 | 4,883 |  | 125 |
| 2018 | 1,363 |  | 142 |
| Averages |  |  |  |
| 61-17 | 19,373 |  | 148 |
| 08-17 | 13,966 |  | 201 |

Appendix E. 10. Klukshu River sockeye salmon weir count, weir harvest, and escapement, 1976-2018.
A portion of Klukshu River sockeye salmon harvested below weir are accounted for in drainagewide estimate see E.10.

| Year | Early (to August 16) | Late | Weir Count | Harvest |  | Escapement |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | At weir | Above weir |  |
| 1976 | 181 | 11,510 | 11,691 |  | 3,750 | 7,941 |
| 1977 | 8,931 | 17,860 | 26,791 |  | 11,350 | 15,441 |
| 1978 | 2,508 | 24,359 | 26,867 |  | 7,850 | 19,017 |
| 1979 | 977 | 11,334 | 12,311 |  | 5,260 | 7,051 |
| 1980 | 1,008 | 10,742 | 11,750 |  | 900 | 10,850 |
| 1981 | 997 | 19,351 | 20,348 |  | 1,900 | 18,448 |
| 1982 | 7,758 | 25,941 | 33,699 |  | 4,800 | 28,899 |
| 1983 | 6,047 | 14,445 | 20,492 |  | 2,475 | 18,017 |
| 1984 | 2,769 | 9,958 | 12,727 |  | 2,500 | 10,227 |
| 1985 | 539 | 18,081 | 18,620 |  | 1,361 | 17,259 |
| 1986 | 416 | 24,434 | 24,850 |  | 1,914 | 22,936 |
| 1987 | 3,269 | 7,235 | 10,504 |  | 1,158 | 9,346 |
| 1988 | 585 | 8,756 | 9,341 |  | 1,604 | 7,737 |
| 1989 | 3,400 | 20,142 | 23,542 |  | 1,906 | 21,636 |
| 1990 | 1,316 | 24,679 | 25,995 |  | 1,388 | 24,607 |
| 1991 | 1,924 | 17,053 | 18,977 |  | 1,332 | 17,645 |
| 1992 | 11,339 | 8,428 | 19,767 |  | 1,498 | 18,269 |
| 1993 | 5,369 | 11,371 | 16,740 |  | 1,819 | 14,921 |
| 1994 | 3,247 | 11,791 | 15,038 |  | 1,146 | 13,892 |
| 1995 | 2,289 | 18,407 | 20,696 |  | 879 | 19,817 |
| 1996 | 1,502 | 6,818 | 8,320 |  | 429 | 7,891 |
| 1997 | 6,565 | 4,931 | 11,496 |  | 193 | 11,303 |
| 1998 | 597 | 12,994 | 13,591 |  | 11 | 13,580 |
| 1999 | 371 | 5,010 | 5,381 |  | 280 | 5,101 |
| 2000 | 237 | 5,314 | 5,551 |  | 129 | 5,422 |
| 2001 | 908 | 9,382 | 10,290 |  | 961 | 9,329 |
| 2002 | 11,904 | 13,807 | 25,711 |  | 2,124 | 23,587 |
| 2003 | 3,084 | 31,278 | 34,362 |  | 2,242 | 32,120 |
| 2004 | 3,464 | 11,884 | 15,348 |  | 1,627 | 13,721 |
| 2005 | 994 | 2,379 | 3,373 |  | 206 | 3,167 |
| 2006 | 247 | 13,208 | 13,455 |  | 565 | 12,890 |
| 2007 | 2,725 | 6,231 | 8,956 |  | 646 | 8,310 |
| 2008 | 43 | 2,698 | 2,741 |  | 0 | 2,741 |
| 2009 | 1,247 | 4,484 | 5,731 | 75 | 128 | 5,528 |
| 2010 | 5,073 | 13,887 | 18,960 | 91 | 323 | 18,546 |
| 2011 | 5,635 | 15,767 | 21,402 | 262 | 358 | 20,782 |
| 2012 | 5,969 | 11,725 | 17,694 | 214 | 304 | 17,176 |
| 2013 | 312 | 3,581 | 3,893 | 0 | 101 | 3,792 |
| 2014 | 2,732 | 9,652 | 12,384 | 10 | 226 | 12,148 |
| 2015 | 2,604 | 8,984 | 11,588 | 10 | 215 | 11,363 |
| 2016 | 1,405 | 6,179 | 7,584 | 37 | 156 | 7,391 |
| 2017 | 1,087 | 2,802 | 3,889 | 77 | 101 | 3,711 |
| 2018 | 97 | 7,046 | 7,143 | 0 | 0 | 7,143 |
| Averages |  |  |  |  |  |  |
| 76-17 | 2,942 | 12,354 | 15,296 |  |  | 13,656 |
| 08-17 | 2,611 | 7,976 | 10,587 |  |  | 10,318 |

2012 weir count was adjusted to account for high water years when weir was disabled

Appendix E. 11. Sockeye salmon harvest in the Canadian Aboriginal and recreational fisheries in the Alsek River, 1976-2018.

| All Klukshu harvest is included in the Alsek River harvest totals. |  |  |  |
| :---: | :---: | :---: | :---: |
| Year | Harvest |  |  |
|  | Aboriginal | Recreational | Total |
| 1976 | 4,000 | 600 | 4,600 |
| 1977 | 10,000 | 500 | 10,500 |
| 1978 | 8,000 | 500 | 8,500 |
| 1979 | 7,000 | 750 | 7,750 |
| 1980 | 800 | 600 | 1,400 |
| 1981 | 2,000 | 808 | 2,808 |
| 1982 | 5,000 | 755 | 5,755 |
| 1983 | 2,550 | 732 | 3,282 |
| 1984 | 2,600 | 289 | 2,889 |
| 1985 | 1,361 | 100 | 1,461 |
| 1986 | 1,914 | 307 | 2,221 |
| 1987 | 1,158 | 383 | 1,541 |
| 1988 | 1,604 | 322 | 1,926 |
| 1989 | 1,851 | 319 | 2,170 |
| 1990 | 2,314 | 392 | 2,706 |
| 1991 | 2,111 | 303 | 2,414 |
| 1992 | 2,592 | 582 | 3,174 |
| 1993 | 2,361 | 329 | 2,690 |
| 1994 | 1,745 | 261 | 2,006 |
| 1995 | 1,745 | 682 | 2,427 |
| 1996 | 1,204 | 157 | 1,361 |
| 1997 | 484 | 36 | 520 |
| 1998 | 567 | 18 | 585 |
| 1999 | 554 | 0 | 554 |
| 2000 | 745 | 0 | 745 |
| 2001 | 1,173 | 4 | 1,177 |
| 2002 | 2,194 | 61 | 2,255 |
| 2003 | 2,734 | 61 | 2,795 |
| 2004 | 1,875 | 247 | 2,122 |
| 2005 | 581 | 13 | 594 |
| 2006 | 1,321 | 6 | 1,327 |
| 2007 | 1,330 | 10 | 1,340 |
| 2008 | 0 | 0 | 0 |
| 2009 | 715 | 2 | 717 |
| 2010 | 1,704 | 12 | 1,716 |
| 2011 | 2,053 | 57 | 2,110 |
| 2012 | 1,734 | 52 | 1,786 |
| 2013 | 508 | 0 | 508 |
| 2014 | 1,140 | 0 | 1,140 |
| 2015 | 1,084 | 0 | 1,084 |
| 2016 | 815 | 0 | 815 |
| 2017 | 584 | 38 | 622 |
| 2018 | 0 | 0 | 0 |
| Averages |  |  |  |
| 76-17 | 2,091 | 245 | 2,336 |
| 08-17 | 1,034 | 16 | 1,050 |

Appendix E. 12. Alsek River sockeye salmon escapement, 2000-2006, 2012-2018.

| The 2000-2004 estimates are based on a mark-recapture study; starting in 2005 estimates based on GSI analysis and the expansion of the Klukshu River weir count. |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Above border Run | CI |  | Canadian Harvest | Spawning <br> Escapement | U.S. <br> Harvest | Total <br> Inriver Run | Spawning Escapement Percent Klukshu |
|  | Estimate | Lower | Upper |  |  |  |  |  |
| 2000 | 37,887 | 23,410 | 52,365 | 745 | 37,142 | 9,668 | 47,555 | 14.6\% |
| 2001 | 31,164 | 23,143 | 39,185 | 1,177 | 29,987 | 14,067 | 45,231 | 31.1\% |
| 2002 | 95,427 | 55,893 | 134,961 | 2,255 | 93,172 | 17,150 | 112,577 | 25.3\% |
| 2003 | 103,507 | 74,350 | 132,664 | 2,795 | 100,712 | 39,874 | 143,381 | 31.9\% |
| 2004 | 83,703 | 39,566 | 127,841 | 2,122 | 81,581 | 18,254 | 101,957 | 16.8\% |
| 2005 | 57,817 | 21,907 | 93,727 | 594 | 57,223 | 7,857 | 65,674 | 5.5\% |
| 2006 | 48,901 | 41,234 | 56,569 | 1,327 | 47,574 | 10,338 | 59,239 | 27.1\% |
| 2011 | 86,009 | 72,970 | 99,049 | 2,110 | 83,899 | 24,556 | 110,565 | 24.8\% |
| 2012 | 78,384 | 64,311 | 92,456 | 1,786 | 76,598 | 18,582 | 96,966 | 22.4\% |
| 2013 | 84,279 | 16,466 | 152,091 | 508 | 83,771 | 7,664 | 91,943 | 4.5\% |
| 2014 | 88,233 | 69,508 | 106,958 | 1,140 | 87,093 | 33,847 | 122,080 | 13.9\% |
| 2015 | 64,793 | 47,474 | 82,111 | 1,084 | 63,709 | 16,267 | 81,060 | 17.8\% |
| 2016 | 59,651 | 43,558 | 75,743 | 815 | 58,836 | 6,890 | 66,541 | 12.6\% |
| 2017 | 102,186 | 57,832 | 146,540 | 622 | 101,564 | 5,008 | 107,194 | 3.7\% |
| 2018 | Not enough US fishing | get suff | mples to | ce estimat |  |  |  |  |
| Averages |  |  |  |  |  |  |  |  |
| 11-17 | 80,505 |  |  | 1,152 | 79,353 | 16,116 | 96,621 | 14.2\% |

Appendix E. 13. Alsek River sockeye counts from U.S. and Canada, 1985-2018.
Surveys not made every year at each tributary. Canadian surveys-include several streams from Lo-Fog to Goat Creek.
Village Creek counter 1986-2013 conductivity counter; 2014 video counter

| Year | U.S. Aerial Surveys |  |  |  | Canada Aerial Surveys |  | Village Creek Counter |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Basin Creek | Cabin <br> Creek | Muddy Creek | Tanis River | Tatshenshini River | Neskataheen Lake |  |
| 1985 | 2,600 |  |  | 2,200 |  |  |  |
| 1986 | 100 |  | 300 | 2,700 | 536 | 750 | 1,490 |
| 1987 | 350 | 220 |  | 1,600 |  |  | 1,875 |
| 1988 | 500 |  |  | 750 | 433 | 456 | 433 |
| 1989 | 320 |  |  | 680 | 1,689 | 1,700 | 9,569 |
| 1990 | 275 | 300 |  | 3,500 |  |  | 5,313 |
| 1991 |  |  |  | 800 |  |  | 86 |
| 1992 | 1,000 | 10 |  | 50 |  |  | 7,447 |
| 1993 | 4,800 |  |  | 900 |  |  | 2,104 |
| 1994 | 250 |  |  | 600 | 366 |  | 3,921 |
| 1995 | 2,700 |  |  | 350 |  |  | 4,042 |
| 1996 | 325 |  |  | 650 |  |  | 1,583 |
| 1997 | 600 |  |  | 350 |  |  | 2,267 |
| 1998 |  |  |  | 130 |  |  | 826 |
| $1999{ }^{\text {a }}$ | 30 |  |  | 800 |  |  | NA |
| 2000 | 25 |  |  | 180 |  |  | 1,860 |
| 2001 |  |  |  | 700 |  |  | 1,897 |
| 2002 | No surveys flown |  |  |  |  |  | 2,765 |
| 2003 | No surveys flown |  |  |  |  |  | 2,778 |
| 2004 | No surveys flown |  |  |  |  |  | 1,968 |
| 2005 | No surveys flown |  |  |  |  |  | 1,408 |
| 2006 | No surveys flown |  |  |  |  |  | 979 |
| 2007 | No surveys flown |  |  |  |  |  | 10,254 |
| $2008^{\text {a }}$ | No surveys flown |  |  |  |  | 1,000 | NA |
| 2009 | No surveys flown |  |  |  |  | 4,500 | 887 |
| 2010 | No surveys flown |  |  |  |  | 2,500 | 2,305 |
| 2011 | No surveys flown |  |  |  |  | 150 | 355 |
| 2012 | No surveys flown |  |  |  |  | 2,038 | 1,372 |
| 2013 | No surveys flown |  |  |  |  |  | 129 |
| 2014 | No surveys flown |  |  |  |  | 700 | 189 |
| 2015 | No surveys flown |  |  |  |  |  | Not conducted |
| 2016 | No surveys flown |  |  |  |  |  | 410 |
| 2017 | No surveys flown |  |  |  |  |  | 240 |
| 2018 |  |  |  |  |  |  | 97 |
| Averages |  |  |  |  |  |  |  |
| 86-17 |  |  |  |  |  |  | 2,440 |
| 08-17 |  |  |  |  |  |  | 736 |

Appendix E. 14. Coho, pink, and chum salmon harvest in the U.S. fisheries in the Alsek River, 1960-2018.

|  | Coho | Pink | Effort |  |  | Subsistence coho |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Chum | Boat Days | Days Open |  |
| 1960 |  |  |  |  |  |  |
| 1961 | 7,679 | 84 | 86 | 1,436 | 80.0 |  |
| 1962 |  |  |  |  |  |  |
| 1963 | 7,164 | 42 | 34 | 692 | 68.0 |  |
| 1964 | 9,760 | 144 | 367 | 592 | 68.0 |  |
| 1965 | 9,638 | 10 | 72 | 1,016 | 72.0 |  |
| 1966 | 2,688 | 22 | 240 | 500 | 64.0 |  |
| 1967 | 10,090 | 107 | 30 | 600 | 68.0 |  |
| 1968 | 10,586 | 82 | 240 | 664 | 68.0 |  |
| 1969 | 2,493 | 38 | 61 | 807 | 61.0 |  |
| 1970 | 2,188 | 6 | 26 | 670 | 52.3 |  |
| 1971 | 4,730 | 3 | 120 | 794 | 60.5 |  |
| 1972 | 7,296 | 37 | 280 | 640 | 65.0 |  |
| 1973 | 4,395 | 26 | 283 | 894 | 52.0 |  |
| 1974 | 7,046 | 13 | 107 | 699 | 46.0 |  |
| 1975 | 2,230 | 16 | 261 | 738 | 58.0 |  |
| 1976 | 4,883 | 0 | 368 | 550 | 58.5 | 5 |
| 1977 | 11,817 | 689 | 483 | 882 | 57.0 | 0 |
| 1978 | 13,913 | 59 | 233 | 929 | 57.0 |  |
| 1979 | 6,158 | 142 | 263 | 1,110 | 51.0 | 70 |
| 1980 | 7,863 | 21 | 1,005 | 773 | 42.0 | 62 |
| 1981 | 10,232 | 65 | 816 | 588 | 40.0 | 74 |
| 1982 | 6,534 | 6 | 358 | 552 | 33.0 | 50 |
| 1983 | 5,253 | 20 | 432 | 487 | 38.0 | 50 |
| 1984 | 7,868 | 24 | 1,610 | 429 | 33.0 |  |
| 1985 | 5,490 | 3 | 427 | 277 | 33.0 | 0 |
| 1986 | 1,344 | 13 | 462 | 517 | 34.0 | 45 |
| 1987 | 2,517 | 0 | 1,924 | 388 | 40.5 | 31 |
| 1988 | 4,986 | 7 | 908 | 324 | 34.0 | 9 |
| 1989 | 5,972 | 2 | 1,031 | 378 | 38.0 | 34 |
| 1990 | 1,437 | 0 | 495 | 374 | 38.0 | 12 |
| 1991 | 5,956 | 0 | 105 | 530 | 49.0 | 0 |
| 1992 | 3,116 | 1 | 120 | 372 | 46.0 | 44 |
| 1993 | 1,215 | 0 | 49 | 372 | 40.0 | 28 |
| 1994 | 4,182 | 0 | 32 | 403 | 61.0 | 20 |
| 1995 | 14,184 | 13 | 347 | 879 | 53.5 | 53 |
| 1996 | 5,514 | 0 | 165 | 419 | 51.0 | 28 |
| 1997 | 11,427 | 0 | 34 | 611 | 59.0 | 26 |
| 1998 | 4,925 | 1 | 145 | 358 | 41.0 | 42 |
| 1999 | 5,660 | 0 | 112 | 319 | 44.0 | 21 |
| 2000 | 5,103 | 5 | 130 | 307 | 37.0 | 31 |
| 2001 | 2,909 | 8 | 17 | 234 | 50.0 | 45 |
| 2002 | 9,525 | 0 | 1 | 270 | 73.0 | 35 |
| 2003 | 47 | 0 | 0 | 271 | 60.0 | 27 |
| 2004 | 2,475 | 0 | 2 | 280 | 76.5 | 21 |
| 2005 | 1,196 | 0 | 0 | 171 | 41.0 | 62 |
| 2006 | 701 | 2 | 3 | 248 | 45.0 | 23 |
| 2007 | 134 | 0 | 0 | 199 | 47.0 | 27 |
| 2008 | 2,668 | 0 | 0 | 177 | 34.0 | 28 |
| 2009 | 3,454 | 0 | 20 | 200 | 44.0 | 17 |
| 2010 | 1,884 | 0 | 9 | 192 | 37.0 | 24 |
| 2011 | 1,614 | 0 | 11 | 235 | 46.0 | 18 |
| 2012 | 536 | 0 | 1 | 459 | 39.0 | 22 |
| 2013 | 17 | 0 | 5 | 285 | 46.0 | 14 |
| 2014 | 3 | 0 | 12 | 239 | 47.0 | 10 |
| 2015 | 11 | 0 | 0 | 227 | 57.0 | 6 |
| 2016 | 655 | 0 | 3 | 296 | 65.5 | 18 |
| 2017 | 114 | 0 | 0 | 114 | 47.0 | 7 |
| 2018 | 2 | 0 | 0 | 39 | 32.5 | 0 |
| Averages |  |  |  |  |  |  |
| 76-17 | 4,883 | 31 | 256 | 499 | 51 | 28 |
| 08-17 | 1,096 | 0 | 6 | 242 | 46 | 16 |

Appendix E. 15. Klukshu River weir counts, harvest, and escapement of coho salmon, 1976-2018.
Coho salmon counts are partial counts; weir is removed prior to the end of the run.

| Year | Count | harvest | Escapement |
| :---: | :---: | :---: | :---: |
| 1976 | 1,572 |  |  |
| 1977 | 2,758 |  |  |
| 1978 | 30 |  |  |
| 1979 | 175 |  |  |
| 1980 | 704 |  |  |
| 1981 | 1,170 |  |  |
| 1982 | 189 |  |  |
| 1983 | 303 |  |  |
| 1984 | 1,402 |  |  |
| 1985 | 350 |  |  |
| 1986 | 71 |  |  |
| 1987 | 202 |  |  |
| 1988 | 2,774 |  |  |
| 1989 | 2,219 |  |  |
| 1990 | 315 |  |  |
| 1991 | 8,540 | 62 | 8,478 |
| 1992 | 1,145 | 0 | 1,145 |
| 1993 | 788 | 0 | 788 |
| 1994 | 1,232 | 0 | 1,232 |
| 1995 | 3,614 | 50 | 3,564 |
| 1996 | 3,465 | 0 | 3,465 |
| 1997 | 307 | 5 | 302 |
| 1998 | 1,961 | 0 | 1,961 |
| 1999 | 2,531 | 0 | 2,531 |
| 2000 | 4,832 | 41 | 4,791 |
| 2001 | 748 | 2 | 746 |
| 2002 | 9,921 | 0 | 9,921 |
| 2003 | 3,689 | 0 | 3,689 |
| 2004 | 750 | 0 | 750 |
| 2005 | 683 | 20 | 663 |
| 2006 | 420 | 0 | 420 |
| 2007 | 300 | 1 | 299 |
| 2008 | 4,275 | 26 | 4,249 |
| 2009 | 424 | 3 | 421 |
| 2010 | 2,365 | 4 | 2,361 |
| 2011 | 2,119 | 9 | 2,110 |
| 2012 | 1,272 | 0 | 1,272 |
| 2013 | 7,462 | 140 | 7,322 |
| 2014 | 341 | 0 | 341 |
| 2015 | 1,810 | 0 | 1,810 |
| 2016 | 2,141 | 0 | 2,141 |
| 2017 | 966 | 0 | 966 |
| 2018 | 728 | 0 | 728 |
| Averages |  |  |  |
| 76-17 | 1,960 |  |  |
| 08-17 | 2,318 | 18 | 2,299 |

[^2]Appendix F. 1. Tahltan Lake egg collection, fry plants, and survivals, 1989-2018.
Numbers for eggs and fry are millions.
Eggs collected from Tahltan broodstock are used for outplants to both Tahltan and Tuya Lakes.

| Brood Year |  |  | Designated Tahltan | Fry <br> Planted | Percent Survival |  |  | Thermal <br> Mark <br> Pattern |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Egg Take |  |  |  | Green to <br> Eyed Egg | $\begin{gathered} \text { Eyed Egg } \\ \text { to Fry } \\ \hline \end{gathered}$ | Green <br> Egg to Fry |  |
|  | Target | Collected |  |  |  |  |  |  |
| 1989 | 3.000 | 2.955 | 2.955 | 1.042 | 70\% | 0.501 | 0.353 | 1:1.4 |
| 1990 | 5.000 | 4.511 | 4.511 | 3.585 | 82\% | 0.964 | 0.795 | 1:1.3 |
| 1991 | 5.000 | 4.246 | 1.514 | 1.415 | 95\% | 0.759 | 0.935 | 1:1.4 |
| 1992 | 5.400 | 4.901 | 2.154 | 1.947 | 92\% | 0.869 | 0.904 | 1:1.4+2.3 |
| 1993 | 6.000 | 6.140 | 0.969 | 0.904 | 92\% | 0.994 | 0.933 | 1:1.6+2.5n |
| 1994 | 6.000 | 4.183 | 1.418 | 1.143 | 89\% | 0.916 | 0.806 | 1:1.6 |
| 1995 | 6.000 | 6.891 | 3.008 | 2.296 | 84\% | 0.821 | 0.763 | 1:1.7 |
| 1996 | 6.000 | 6.402 | 3.169 | 2.248 | 93\% | 0.818 | 0.709 | 1:1.6 |
| 1997 | 6.000 | 3.221 | 2.700 | 1.900 | 83\% | 0.875 | 0.704 | 2:1.6 |
| 1998 | 6.000 | 4.022 | 1.998 | 1.671 | 91\% | 0.891 | 0.836 | 1:1.7 |
| 1999 | 6.000 | 3.826 | 2.773 | 2.228 | 92\% | 0.883 | 0.804 | 2:1.6 |
| 2000 | 6.000 | 2.388 | 2.388 | 1.873 | 92\% | 0.853 | 0.784 | 1:1.7 |
| 2001 | 6.000 | 3.306 | 3.306 | 2.533 | 83\% | 0.924 | 0.766 | 2:1.6 |
| 2002 | 6.000 | 4.050 | 2.780 | 2.623 | 92\% | 1.006 | 0.943 | 1:1.7 |
| 2003 | 6.000 | 5.391 | 2.661 | 2.226 | 91\% | 0.949 | 0.836 | 1:1.6\&1:1.5+2.4 |
| 2004 | 6.000 | 5.701 | 1.966 | 1.226 | 88\% | 0.882 | 0.624 | 1:1.6+2.6 |
| 2005 | 6.000 | 4.552 | 1.809 | 1.280 | 86\% | 0.872 | 0.708 | 1:1.4+2.2 |
| 2006 | 6.000 | 4.364 | 2.954 | 2.466 | 91\% | 0.923 | 0.835 | 1:1.3n, 2.2 |
| 2007 | 6.000 | 4.060 | 2.209 | 1.540 | 80\% | 0.946 | 0.697 | 1,2n,3H |
| 2008 | 6.000 | 3.386 | 2.398 | 1.395 | 85\% | 0.774 | 0.582 | 1,4H |
| 2009 | 6.000 | 4.469 | 2.609 | 1.830 | 78\% | 0.802 | 0.701 | 5,2H |
| 2010 | 6.000 | 5.949 | 3.097 | 1.230 | 82\% | 0.507 | 0.397 | 4,3H |
| 2011 | 6.000 | 6.481 | 3.383 | 2.130 | 86\% | 0.669 | 0.630 | 3,2n,2H |
| 2012 ${ }^{\text {a }}$ | 6.000 | 5.597 | 3.674 | 1.349 | 72\% | 0.525 | 0.367 | 1,4H |
| 2013 | 6.000 | 4.218 | 3.517 | 2.066 | 75\% | 0.794 | 0.587 | 4,3H\&6,3H |
| $2014{ }^{\text {b }}$ | 6.000 | 3.898 | 3.898 | 2.684 | 76\% | 0.911 | 0.689 | 3,2n,2H\&3,2n,2H3 |
| $2015^{\text {c }}$ | 6.000 | 4.509 | 4.509 | 3.399 | 84\% | 0.899 | 0.754 | 1,4H \& 14H4 |
| 2016 | 4.910 | 5.310 | 5.310 | 3.136 | 76\% | 0.780 | 0.591 | $4,3 \mathrm{H} \& 3 \mathrm{n}, 3 \mathrm{H}$ |
| 2017 | 5.000 | 3.850 | 3.850 | 2.634 | 79\% | 0.792 | 0.684 | 3,2n,2H |
| 2018 | 5.000 | 2.251 | 2.251 | 1.858 | 94\% | 0.878 | 0.825 | 1,4H |
| Averages |  |  |  |  |  |  |  |  |
| 89-18 | 5.710 | 4.501 | 2.858 | 2.000 | 0.851 | 0.831 | 0.714 |  |
| 09-18 | 5.691 | 4.653 | 3.610 | 2.185 | 0.801 | 0.745 | 0.598 |  |

${ }^{\text {a }}$ A low weir count resulted in a bilateral inseason adjustment of the egg take target to 5.5 million
${ }^{\mathrm{b}}$ The original goal of 6.0 million eggs at Tahltan Lake was reduced to 5.0 million by Canada due to domestic is sues
${ }^{\mathrm{c}}$ The original goal of 6.0 million eggs at Tahltan Lake was reduced to 5.5 million by Canada due to domestic is sues

Appendix F. 2. Tuya Lake fry plants and survivals, 1991-2018.

|  | Egg Take |  |  |  |  | Thermal |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Designated | Fry | Percent | Fertilized | Green | Mark |
| Brood Year | Tuya | Planted | Fertilized | Egg to Fry | Egg to Fry | Pattern |
| 1991 | 2.732 | 1.632 | 0.944 | 0.633 | 0.597 | 1:1.6 |
| 1992 | 2.747 | 1.990 | 0.929 | 0.780 | 0.724 | 1:1.7 |
| 1993 | 5.171 | 4.691 | 0.911 | 0.996 | 0.907 | 1:1.4+2.5n |
| 1994 | 2.765 | 2.267 | 0.870 | 0.943 | 0.820 | 1:1.4 |
| 1995 | 3.883 | 2.474 | 0.795 | 0.802 | 0.637 | 1:1.4+2.4 |
| 1996 | 3.233 | 2.611 | 0.932 | 0.867 | 0.808 | 1:1.4 |
| 1997 | 0.521 | 0.433 | 0.911 | 0.912 | 0.830 | 2:1.4 |
| 1998 | 2.024 | 1.603 | 0.917 | 0.864 | 0.792 | 1:1.4 |
| 1999 | 1.053 | 0.867 | 0.960 | 0.857 | 0.823 | 2:1.4 |

2000 All eggs collected in 2000 and 2001 were for backplant into Tahltan Lake.
2001

| 2002 | 1.271 | 1.124 | 0.904 | 0.978 | 0.885 | $1: 1.7+2.3$ |
| :--- | :--- | :--- | :--- | :--- | :--- | ---: |
| 2003 | 2.730 | 2.445 | 0.927 | 0.966 | 0.895 | $1: 1.4$ |
| 2004 | 3.734 | 3.200 | 0.921 | 0.931 | 0.857 | $1: 1.6+2.4$ |
| 2005 | 2.744 | 2.138 | 0.900 | 0.866 | 0.779 | $1: 1.4+2.4$ |
| 2006 | 1.410 | 1.201 | 0.920 | 0.926 | 0.852 | $1: 1.3,2.3$ |
| 2007 | 1.852 | 1.537 | 0.856 | 0.970 | 0.830 | $2,1,3 \mathrm{H}$ |
| 2008 | 0.988 | 0.832 | 0.856 | 0.984 | 0.842 | 6 H |
| 2009 | 1.860 | 0.976 | 0.794 | 0.661 | 0.525 | $3,4 \mathrm{H}$ |
| 2010 | 2.852 | 1.240 | 0.819 | 0.531 | 0.435 | $3 \mathrm{n}, 3 \mathrm{H}$ |
| 2011 | 3.098 | 1.600 | 0.865 | 0.597 | 0.516 | 6 H |
| 2012 | 1.924 | 0.755 | 0.816 | 0.481 | 0.392 | $4 \mathrm{n}, 3 \mathrm{H}$ |
| 2013 | 0.701 | 0.462 | 0.737 | 0.894 | 0.659 | $3 \mathrm{n}, 3 \mathrm{H}$ |
| 2014 | Fry plants into Tuya Lake discontinued |  |  |  |  |  |


| Averages |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
| $91-13$ | 2.347 | 1.718 | 0.880 | 0.830 | 0.734 |
| $04-13$ | 2.116 | 1.394 | 0.848 | 0.784 | 0.669 |

Appendix F. 3. Tatsamenie Lake egg collection, fry plants, and survivals, 1989-2018.

| Brood Year | Egg Take |  |  | Fry | Percent Fertilized | Survival |  |  | Thermal Mark <br> Pattern(s) | Last Date <br> Released |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Fertilized |  | Green |  |  |  |
|  | Target | Collected | Transport |  |  | Egg to Fry | Egg to Fry |  |  |  |
| 1990 | 2.500 | 0.985 | 0.673 |  | 0.673 | 0.775 | 0.684 | 0.683 |  | 1:1.3 | 22-Jun |
| 1991 | 1.500 | 1.360 | 1.232 | 1.232 | 0.927 | 0.906 | 0.906 |  | 2:1.4 | 26-Jun |
| 1992 | 1.750 | 1.486 | 0.909 | 0.909 | 0.858 | 0.612 | 0.612 |  | 1:1.5 | 14-Jul |
| 1993 | 2.500 | 1.144 | 0.521 | 0.521 | 0.619 | 0.455 | 0.455 |  | 2:1.5 | 14-Jul |
| 1994 | 2.500 | 1.229 | 0.898 | 0.898 | 0.801 | 0.731 | 0.730 |  | 1:1.5 | 21-Jul |
| 1995 | 2.500 | 2.407 | 1.724 | 1.724 | 0.843 | 0.716 | 0.716 |  | 1:1.5 | 25-Jun |
| 1996 | 5.000 | 4.934 | 3.941 | 3.941 | 0.849 | 0.800 | 0.799 |  | \& 1:1.5,2.3 | 27-Jun |
| 1997 | 5.000 | 4.651 | 3.597 | 3.597 | 0.910 | 0.773 | 0.773 |  | \&2:1.5,2.3 | 9-Jul |
| 1998 | 2.500 | 2.414 | 1.769 | 1.769 | 0.897 | 0.733 | 0.733 | 1:1.4+2.5 | \& 1:1.4+2.3 | 30-Jun |
| 1999 | 2.500 | 0.461 | 0.350 | 0.350 | 0.922 | 0.742 | 0.760 |  | 2:1.5 | 4-Jul |
| $2000{ }^{\text {ab }}$ | 3.000 | 2.816 | 2.320 | 2.320 | 0.943 | 0.902 | 0.824 | 1.1.5 | +2.3\&1.1.5 | 26-Jun |
| $2001{ }^{\text {ab }}$ | 4.800 | 4.364 | 2.233 | 2.233 | 0.900 | 0.638 | 0.512 |  | \& 2:1.5,2.3 | 25-Jun |
| $2002{ }^{\text {ab }}$ | 3.000 | 2.498 | 1.353 | 0.911 | 0.823 | 0.588 | 0.365 | 1:1.4 | \& 1:1.4+2.3 | 27-May |
| $2003{ }^{\text {ab }}$ | 5.000 | 2.642 | 2.141 | 2.141 | 0.919 | 0.873 | 0.810 | 1.1.5 | +2.3\&1.1.5 | 27-May |
| 2004 | 5.000 | 0.750 | 0.628 | 0.628 | 0.933 | 0.837 | 0.837 | 1:1.4+2.5n\&1 | 1.4+2.3,3.3 | 20-May |
| 2005 | 5.000 | 1.811 | 1.471 | 1.471 | 0.936 | 0.813 | 0.813 | 1:1.4+2.3 | \& $1: 1.4+2.5$ | 8-Jun |
| 2006 | 5.000 | 4.810 | 3.705 | 3.705 | 0.920 | 0.770 | 0.770 | 1:1.2,2.1,3.2\&1:1.2,2.2,3.3\&1 | 1.2,2.2,3.1 | 13-Jun |
| 2007 | 5.000 | 3.673 | 2.522 | 2.122 | 0.885 | 0.687 | 0.578 | $2 \mathrm{n} 3 \& 2,3 \mathrm{n}, 1 \& 1,3$ | ,2\&3,2n,1 | 6-Jun |
| 2008 | 5.000 | 4.902 | 3.874 | 3.871 | 0.892 | 0.900 | 0.790 |  | 2H \& 3,3H | 3-Jun |
| 2009 | 5.000 | 1.224 | 0.717 | 0.716 | 0.852 | 0.586 | 0.585 |  | H \& 3n, 2 H | 22-May |
| 2010 | 2.000 | 1.896 | 1.599 | 1.599 | 0.919 | 0.842 | 0.843 | 2,1,2 | H 2, $2,3 \mathrm{H}$ | 29-May |
| 2011 | 2.000 | 2.190 | 1.893 | 1.893 | 0.912 | 0.864 | 0.864 |  | ,5H\&6,2H | 29-May |
| 2012 | 2.000 | 1.836 | 1.636 | 1.636 | 0.955 | 0.933 | 0.891 |  | $2 \mathrm{H} \& 3,3 \mathrm{H}$ | 1-Jun |
| 2013 | 2.000 | 1.812 | 1.325 | 1.321 | 0.758 | 0.590 | 0.587 | 2,1,2 | H \& 2,2,3H | 6-Jun |
| 2014 | 2.000 | 1.289 | 0.918 | 0.918 | 0.869 | 0.716 | 0.712 |  | ,5H\&6,2H | 30-May |
| 2015 | 2.000 | 0.731 | 0.471 | 0.471 | 0.801 | 0.646 | 0.644 |  | 2H \& 3,3H | 27-May |
| 2016 | 2.000 | 1.773 | 1.201 | 1.201 | 0.734 | 0.923 | 0.678 | 2,1,2 | H \& 2,2,3H | 20-Jun |
| 2017 | 2.000 | 1.959 | 1.477 | 1.477 | 0.840 | 0.898 | 0.754 |  | ,5H\&6,2H | 31-May |
| 2018 | 2.500 | 2.304 | 1.760 | 1.760 | 0.787 | 0.939 | 0.764 | $3 \mathrm{n}, 2 \mathrm{H}$ \& | 4,4H \& 8H |  |
| Averages |  |  |  |  |  |  |  |  |  |  |
| 90-18 | 3.191 | 2.288 | 1.682 | 1.652 | 0.861 | 0.756 | 0.715 |  |  |  |
| 08-17 | 2.600 | 1.961 | 1.511 | 1.510 | 0.853 | 0.790 | 0.735 |  |  |  |
| Multiple Release Treatments |  |  |  |  |  |  |  |  |  |  |
| Treatment 1 |  |  |  |  |  | Treatment 2 |  |  |  |  |
|  |  |  |  |  | Last |  |  |  |  | Last |
| Brood |  |  |  | Number | Date |  |  |  | Number | Date |
| Year | Mark |  | Treatment | Released | Released |  | Mark | Treatment | Released | Released |
| 1996 | 1:1.5 |  | onshore | 3.441 | 27-Jun |  | 1:1.5,2.3 | onshore | 0.500 | 27-Jun |
| 1997 | 2:1.5 |  | onshore | 3.202 | 29-Jun |  | 2:1.5,2.3 | fed at lake | 0.394 | 9-Jul |
| 1998 | 1:1.4+2.5 |  | unfed | 0.751 | 9-Jun |  | 1:1.4+2.3 | fed at lake | 1.018 | 30-Jun |
| 1999 | 2:1.5 |  | fed at lake | 0.350 | 4-Jul |  |  |  |  |  |
| 2000 | 1.1.5+2.3 |  | fed early | 1.265 | 15-Jun |  | 1.1.5 | fed late | 1.054 | 26-Jun |
| 2001 | 2:1.5 |  | unfed early | 0.727 | 30-May |  | 2:1.5,2.3 | fed | 1.432 | 25-Jun |
| 2002 | 1:1.4 | direct r | lease early | 0.911 | 27-May |  | 1:1.4+2.3 | fed - IHN loss | 0.000 | none |
| 2003 | 1.1.5+2.3 | unfed | early south | 1.005 | 27-May |  | 1.1.5 | unfed early north | 1.136 | 24-May |
| 2004 | 1:1.4+2.5N | unfed | early south | 0.367 | 20-May |  | 1:1.4+2/3,3.3 | unfed early north | 0.261 | 20-May |
| 2005 | 1:1.4+2.3 | unfed | early south | 0.775 | 8-Jun |  | 1:1.4+2.5 | unfed early north | 0.696 | 8-Jun |
| 2006 | 1:1.2,2.1,3.2 | unfed | early south | 1.808 | 7-Jun |  | 1:1.2,2.2,3.3 | 1:1.2,2.2,3.1 unfed early north | 1.897 | 13-Jun |
| 2007 | 1,3n,2 | unfed e | rly midlake | 0.971 | 6-Jun |  | 2n3 | 2,3n1 unfed early north | 1.150 | 5-Jun |
| 2007 | 3,2n,1 | exten | ed rearing ${ }^{\text {c }}$ | 0.400 | 8 -Jun |  |  |  |  |  |
| 2008 | 3,2H | unfed | early north | 0.115 | 3-Jun |  | 3,3H | extended rearing | 0.115 | 26-Jul |
| 2009 | 6,2H | unfed | early north | 0.506 | 22-May |  | 3n,2H | extended rearing | 0.210 | 12-Aug |
| 2010 | 2,1,2H | unfed | early north | 1.398 | 29-May |  | 2,2,3H | extended rearing | 0.198 | 14-Aug |
| 2011 | 3n,5H | unfed | early north | 1.649 | 29-May |  | 6,2H | extended rearing | 0.242 | 21-Aug |
| 2012 | 3n,2H | unfed | early north | 1.419 | 1-Jun |  | 3,3H | extended rearing | 0.216 | 9-Aug |
| 2013 | 2,1,2H | unfed | early north | 1.136 | 6-Jun |  | 2,2,3H | extended rearing | 0.185 | 10-Aug |
| 2014 | 3n,5H | unfed | early north | 0.731 | 22-May |  | 6,2H | extended rearing | 0.187 | 6-Jul |
| 2015 | 3n,2H | unfed | early north | 0.384 | 14-May |  | 3,3H | extended rearing | 0.086 | 12-Aug |
| 2016 | 2,1,2H | unfed | early north | 1.019 | 29-May |  | 2,2,3H | net pen rearing | 0.144 | 27-Jul |
| 2017 | 3n,5H | unfed | early north | 1.263 | 31-May |  | 6,2H | net pen rearing | 0.214 | 28-Jun |
| 2018 | 3n,2H | unfed | early north | 1.497 | 19-May |  | 4,4H \& 8H | net pen rearing | 0.379 | 5-Jul |
| Averages |  |  |  |  |  |  |  |  |  |  |
| 96-17 |  |  |  | 1.129 |  |  |  |  | 0.532 |  |
| 08-17 |  |  |  | 0.962 |  |  |  |  | 0.198 |  |

[^3]Appendix F.4. Trapper and King Salmon lakes egg collection, fry plants, and survivals, 1990-2018.

| Numbers for eggs and fry are millions. |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Brood Year | Lake | Egg Take |  |  | $\begin{array}{r} \text { Fry } \\ \text { Planted } \end{array}$ | Percent <br> Fertilized | Survival |  | Thermal <br> Mark Pattern | LastDateReleased |
|  |  |  |  |  | Fertilized |  | Green |  |  |
|  |  | Target | Collect | Transport |  |  | Egg to Fry | Egg to Fry |  |  |
| 1990 | Trapper | 2.500 | 2.314 | 0.934 |  | 0.934 |  |  | 0.404 | 5H | 22-Jun |
| 1991 | Trapper | 2.500 | 2.953 | 1.811 | 1.811 |  |  | 0.613 | 6 H | 11-Jun |
| 1992 | Trapper | 2.500 | 2.521 | 1.113 | 1.113 |  |  | 0.442 | 7 H 3 | 22-Jun |
| 1993 | Trapper |  | 1.174 | 0.916 | 0.916 |  |  | 0.781 | 5 H 5 n | 24-Jun |
| 1994 | Trapper |  | 1.117 | 0.773 | 0.773 |  |  | 0.692 | 7 H | 3-Jul |
| 2006 | Trapper | 1.000 | 1.109 | 0.897 | 0.897 | 0.897 | 0.905 | 0.808 | 6 H | 20-Jun |
| 2007 | Trapper | 1.000 | 0.900 | 0.353 | 0.353 | 0.604 | 0.650 | 0.393 | 4,2nH | 5-Jun |
| 2012 | King Salmon | 0.250 | 0.238 | 0.197 | 0.197 | 0.896 | 0.949 | 0.850 | 6,2H3 | 2-Jun |
| 2014 | King Salmon | 0.250 | 0.199 | 0.169 | 0.169 | 0.893 | 0.930 | 0.893 | 6,3H | 23-May |
| 2016 | Trapper | 0.250 | 0.271 | 0.212 | 0.212 | 0.873 | 0.782 | 0.683 | 4,4n,3H | 29-May |
| 2017 | Trapper | 0.250 | 0.280 | 0.187 | 0.187 | 0.816 | 0.818 | 0.668 | 4,2,3H | 29-May |
| $2018^{\text {a }}$ | Trapper | 0.500 | 0.000 |  |  |  |  |  |  |  |

Appendix G. 1. Annual stock proportion estimates (mean) of Chinook salmon harvested in the Alaskan District 108 commercial drift gillnet, 2004-2018.

|  |  | 2 Reporting Groups |  |
| :---: | :---: | :---: | :---: |
| Year | Sample Size | Taku/Stikine | Other |
| 2004 | 119 | 0.299 | 0.701 |
| 2005 | 254 | 0.887 | 0.113 |
| 2006 | 350 | 0.642 | 0.358 |
| 2007 | 292 | 0.387 | 0.511 |
| 2008 | 293 | 0.128 | 0.613 |
| 2009 | 177 | 0.215 | 0.785 |
| 2010 | 72 | 0.346 | 0.654 |
| 2011 | 70 | 0.248 | 0.752 |
| 2012 | 202 | 0.068 | 0.932 |
| 2013 | 164 | 0.043 | 0.957 |
| 2014 | 273 | 0.047 | 0.953 |
| 2015 | 272 | 0.220 | 0.780 |
| 2016 | 293 | 0.008 | 0.992 |
| 2017 | 246 | 0.006 | 0.994 |
| 2018 | 114 |  |  |

Appendix G. 2. Annual stock proportion estimates (mean) of Chinook salmon harvested in the Alaskan District 108 sport fisheries, 2004-2018.

|  |  | 2 Reporting Groups |  |
| :---: | :---: | :---: | :---: |
| Year | Sample Size | Taku/Stikine | Other |
| 2004 | 189 | 0.655 | 0.345 |
| 2005 | 226 | 0.738 | 0.262 |
| 2006 | 201 | 0.718 | 0.282 |
| 2007 | 200 | 0.604 | 0.396 |
| 2008 | 200 | 0.614 | 0.386 |
| 2009 | 190 | 0.517 | 0.483 |
| 2010 | 201 | 0.546 | 0.454 |
| 2011 | 199 | 0.509 | 0.491 |
| 2012 | 201 | 0.423 | 0.577 |
| 2013 | 223 | 0.490 | 0.510 |
| 2014 | 205 | 0.354 | 0.646 |
| 2015 | 297 | 0.449 | 0.551 |
| 2016 | 251 | 0.304 | 0.696 |
| 2017 | 182 | 0.212 | 0.788 |
| 2018 | 0 |  |  |

Appendix G. 3. Annual stock proportion estimates (mean) of Chinook salmon harvested in the Alaskan District 108 commercial troll, 2018.

No estimates in 2018
Appendix G. 4. Annual stock proportion estimates (mean) of Chinook salmon harvested in the Alaskan District 111 commercial drift gillnet, 2018.

|  |  | 2 Reporting Groups |  |
| :---: | :---: | :---: | :---: |
| Year | Sample Size | Taku/Stikine | Other |
| 2004 | 111 | 0.859 | 0.141 |
| 2005 | 247 | 0.919 | 0.081 |
| 2006 | 209 | 0.905 | 0.095 |
| 2007 | 96 | 0.492 | 0.508 |
| 2008 | 104 | 0.483 | 0.517 |
| 2009 | 257 | 0.813 | 0.187 |
| 2010 | 152 | 0.539 | 0.461 |
| 2011 | 70 | 0.809 | 0.191 |
| 2012 | 206 | 0.876 | 0.124 |
| 2013 | 86 | 0.753 | 0.247 |
| 2014 | 78 | 0.635 | 0.365 |
| 2015 | 88 | 0.592 | 0.408 |
| 2016 | 49 | 0.749 | 0.251 |
| 2017 | 48 | 0.464 | 0.536 |
| 2018 | 100 | 0.118 | 0.882 |

Appendix G. 4. Annual stock proportion estimates (mean) of Chinook salmon harvested in the Alaskan District 111 sport fisheries, 2018.

|  |  | 2 Reporting Groups |  |
| :---: | :---: | :---: | :---: |
| Year | Sample Size | Taku/Stikine | Other |
| 2004 | 159 | 0.538 | 0.462 |
| 2005 | 264 | 0.578 | 0.422 |
| 2006 | 269 | 0.652 | 0.348 |
| 2007 | 237 | 0.451 | 0.549 |
| 2008 | 218 | 0.226 | 0.774 |
| 2009 | 239 | 0.255 | 0.745 |
| 2010 | 200 | 0.453 | 0.547 |
| 2011 | 200 | 0.454 | 0.546 |
| 2012 | 200 | 0.494 | 0.506 |
| 2013 | 224 | 0.125 | 0.875 |
| 2014 | 221 | 0.396 | 0.604 |
| 2015 | 297 | 0.486 | 0.514 |
| 2016 | 211 | 0.587 | 0.413 |
| 2017 | 147 | 0.031 | 0.969 |
| 2018 | 178 | 0.007 | 0.993 |

Appendix G. 5. Weekly stock proportion estimates (mean) of sockeye salmon harvested in the Alaskan Subdistrict 106-41/42 (Sumner Strait) commercial drift gillnet fishery, 2018.

| Sample Sizes |  |  |  |  | Reporting group | MEAN | SD | C15\% | C195\% | PO |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| SW |  |  | Aged | Otolith Marked |  |  |  |  |  |  |
|  | Total | Genotyped | (not genotyped) |  |  |  |  |  |  |  |
| 25 | 240 | 95 | 97 | 48 | Enhanced Tahltan | 0.171 | 0.025 | 0.132 | 0.214 | 0.000 |
|  |  |  |  |  | Enhanced Tuya | 0.030 | 0.011 | 0.015 | 0.049 | 0.000 |
|  |  |  |  |  | Non-Stikine | 0.454 | 0.044 | 0.383 | 0.527 | 0.000 |
|  |  |  |  |  | Stikine/Taku Mainstem | 0.230 | 0.038 | 0.171 | 0.296 | 0.000 |
|  |  |  |  |  | Wild Tahltan | 0.115 | 0.028 | 0.073 | 0.164 | 0.000 |
| 26 | 140 | 101 | 0 | 39 | Enhanced Tahltan | 0.237 | 0.037 | 0.178 | 0.300 | 0.000 |
|  |  |  |  |  | Enhanced Tuya | 0.037 | 0.015 | 0.015 | 0.065 | 0.000 |
|  |  |  |  |  | Non-Stikine | 0.521 | 0.045 | 0.444 | 0.595 | 0.000 |
|  |  |  |  |  | Stikine/Taku Mainstem | 0.071 | 0.025 | 0.033 | 0.116 | 0.000 |
|  |  |  |  |  | Wild Tahltan | 0.135 | 0.030 | 0.091 | 0.187 | 0.000 |
| 27 |  |  |  |  | No estimate |  |  |  |  |  |
| 28 | 300 | 164 | 118 | 18 | Enhanced Tahltan | 0.041 | 0.011 | 0.024 | 0.060 | 0.000 |
|  |  |  |  |  | Enhanced Tuya | 0.014 | 0.007 | 0.005 | 0.027 | 0.000 |
|  |  |  |  |  | Non-Stikine | 0.797 | 0.031 | 0.743 | 0.845 | 0.000 |
|  |  |  |  |  | Stikine/Taku Mainstem | 0.077 | 0.022 | 0.043 | 0.116 | 0.000 |
|  |  |  |  |  | Wild Tahltan | 0.071 | 0.020 | 0.042 | 0.104 | 0.000 |
| 29 | 300 | 184 | 110 | 6 | Enhanced Tahltan | 0.008 | 0.005 | 0.002 | 0.017 | 0.002 |
|  |  |  |  |  | Enhanced Tuya | 0.001 | 0.001 | 0.000 | 0.003 | 0.640 |
|  |  |  |  |  | Non-Stikine | 0.833 | 0.028 | 0.786 | 0.875 | 0.000 |
| 30 | 300 | 142 | 138 | 20 | Stikine/Taku Mainstem | 0.123 | 0.024 | 0.085 | 0.166 | 0.000 |
|  |  |  |  |  | Wild Tahltan | 0.036 | 0.014 | 0.018 | 0.062 | 0.000 |
|  |  |  |  |  | Enhanced Tahltan | 0.017 | 0.007 | 0.007 | 0.031 | 0.000 |
|  |  |  |  |  | Enhanced Tuya | 0.004 | 0.004 | 0.000 | 0.011 | 0.040 |
|  |  |  |  |  | Non-Stikine | 0.897 | 0.024 | 0.853 | 0.935 | 0.000 |
|  |  |  |  |  | Stikine/Taku Mainstem | 0.081 | 0.023 | 0.046 | 0.121 | 0.000 |
|  |  |  |  |  | Wild Tahltan | 0.001 | 0.003 | 0.000 | 0.007 | 0.577 |
| 31 | 302 | 182 | 115 | 5 | Enhanced Tahltan | 0.001 | 0.002 | 0.000 | 0.004 | 0.644 |
|  |  |  |  |  | Enhanced Tuya | 0.001 | 0.001 | 0.000 | 0.003 | 0.649 |
|  |  |  |  |  | Non-Stikine | 0.953 | 0.018 | 0.921 | 0.980 | 0.000 |
|  |  |  |  |  | Stikine/Taku Mainstem | 0.039 | 0.017 | 0.015 | 0.069 | 0.000 |
|  |  |  |  |  | Wild Tahltan | 0.007 | 0.006 | 0.000 | 0.019 | 0.030 |
| 32 | 300 | 185 | 113 | 2 | Enhanced Tahltan | 0.007 | 0.005 | 0.001 | 0.017 | 0.001 |
|  |  |  |  |  | Enhanced Tuya | 0.001 | 0.002 | 0.000 | 0.003 | 0.665 |
|  |  |  |  |  | Non-Stikine | 0.963 | 0.016 | 0.934 | 0.985 | 0.000 |
|  |  |  |  |  | Stikine/Taku Mainstem | 0.023 | 0.014 | 0.004 | 0.048 | 0.005 |
|  |  |  |  |  | Wild Tahltan | 0.006 | 0.006 | 0.000 | 0.018 | 0.031 |
| 33 | 300 | 186 | 114 | 0 | Enhanced Tahltan | 0.001 | 0.002 | 0.000 | 0.003 | 0.671 |
|  |  |  |  |  | Enhanced Tuya | 0.001 | 0.001 | 0.000 | 0.003 | 0.680 |
|  |  |  |  |  | Non-Stikine | 0.989 | 0.011 | 0.967 | 1.000 | 0.000 |
|  |  |  |  |  | Stikine/Taku Mainstem | 0.008 | 0.010 | 0.000 | 0.030 | 0.262 |
|  |  |  |  |  | Wild Tahltan | 0.001 | 0.002 | 0.000 | 0.005 | 0.614 |
| 34 | 228 | 95 | 133 | 0 | Enhanced Tahltan | 0.001 | 0.002 | 0.000 | 0.005 | 0.719 |
|  |  |  |  |  | Enhanced Tuya | 0.001 | 0.002 | 0.000 | 0.004 | 0.742 |
|  |  |  |  |  | Non-Stikine | 0.906 | 0.032 | 0.852 | 0.953 | 0.000 |
|  |  |  |  |  | Stikine/Taku Mainstem | 0.090 | 0.031 | 0.044 | 0.145 | 0.000 |
|  |  |  |  |  | Wild Tahltan | 0.002 | 0.004 | 0.000 | 0.010 | 0.636 |
| 35 | 291 | 89 | 202 | 0 | Enhanced Tahltan | 0.001 | 0.002 | 0.000 | 0.004 | 0.892 |
|  |  |  |  |  | Enhanced Tuya | 0.001 | 0.002 | 0.000 | 0.004 | 0.886 |
|  |  |  |  |  | Non-Stikine | 0.990 | 0.012 | 0.967 | 1.000 | 0.000 |
|  |  |  |  |  | Stikine/Taku Mainstem | 0.006 | 0.010 | 0.000 | 0.027 | 0.580 |
|  |  |  |  |  | Wild Tahltan | 0.002 | 0.005 | 0.000 | 0.013 | 0.732 |

Appendix G. 6. Weekly stock proportion estimates (mean) of sockeye salmon harvested in the Alaskan Subdistrict 106-30 (Clarence Strait) commercial drift gillnet fishery, 2018.

| Sample Sizes |  |  |  |  | Reporting Group | MEAN | SD | C15\% | C195\% | PO |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| SW |  |  | Aged | Otolith Marked |  |  |  |  |  |  |
|  | Total | Genotyped | (not genotyped) | (not genotyped) |  |  |  |  |  |  |
| 26 | 81 | 79 | 2 | 0 | Enhanced Tahltan | 0.002 | 0.005 | 0.000 | 0.012 | 0.640 |
|  |  |  |  |  | Enhanced Tuya | 0.002 | 0.006 | 0.000 | 0.013 | 0.632 |
|  |  |  |  |  | Non-Stikine | 0.916 | 0.034 | 0.854 | 0.963 | 0.000 |
|  |  |  |  |  | Stikine/Taku Mainstem | 0.051 | 0.028 | 0.013 | 0.103 | 0.001 |
|  |  |  |  |  | Wild Tahltan | 0.027 | 0.019 | 0.006 | 0.062 | 0.001 |
| 27 | 189 | 183 | 6 | 0 | Enhanced Tahltan | 0.001 | 0.002 | 0.000 | 0.006 | 0.693 |
|  |  |  |  |  | Enhanced Tuya | 0.001 | 0.002 | 0.000 | 0.005 | 0.699 |
|  |  |  |  |  | Non-Stikine | 0.900 | 0.027 | 0.855 | 0.942 | 0.000 |
|  |  |  |  |  | Stikine/Taku Mainstem | 0.091 | 0.026 | 0.050 | 0.137 | 0.000 |
|  |  |  |  |  | Wild Tahltan | 0.007 | 0.006 | 0.000 | 0.018 | 0.063 |
| 28 | 80 | 75 | 5 | 0 | Enhanced Tahltan | 0.002 | 0.005 | 0.000 | 0.012 | 0.600 |
|  |  |  |  |  | Enhanced Tuya | 0.002 | 0.006 | 0.000 | 0.012 | 0.616 |
|  |  |  |  |  | Non-Stikine | 0.897 | 0.039 | 0.826 | 0.954 | 0.000 |
|  |  |  |  |  | Stikine/Taku Mainstem | 0.082 | 0.036 | 0.032 | 0.146 | 0.000 |
|  |  |  |  |  | Wild Tahltan | 0.016 | 0.014 | 0.001 | 0.044 | 0.026 |
| 29 | 171 | 169 | 2 | 0 | Enhanced Tahltan | 0.001 | 0.002 | 0.000 | 0.005 | 0.672 |
|  |  |  |  |  | Enhanced Tuya | 0.001 | 0.003 | 0.000 | 0.006 | 0.666 |
|  |  |  |  |  | Non-Stikine | 0.926 | 0.025 | 0.881 | 0.963 | 0.000 |
|  |  |  |  |  | Stikine/Taku Mainstem | 0.059 | 0.023 | 0.025 | 0.101 | 0.000 |
|  |  |  |  |  | Wild Tahltan | 0.013 | 0.008 | 0.003 | 0.029 | 0.003 |
| 30 | 300 | 181 | 119 | 0 | Enhanced Tahltan | 0.001 | 0.002 | 0.000 | 0.003 | 0.649 |
|  |  |  |  |  | Enhanced Tuya | 0.001 | 0.002 | 0.000 | 0.004 | 0.645 |
|  |  |  |  |  | Non-Stikine | 0.938 | 0.019 | 0.905 | 0.966 | 0.000 |
|  |  |  |  |  | Stikine/Taku Mainstem | 0.060 | 0.019 | 0.031 | 0.093 | 0.000 |
|  |  |  |  |  | Wild Tahltan | 0.001 | 0.002 | 0.000 | 0.006 | 0.580 |
| 31 | 300 | 169 | 131 | 0 | Enhanced Tahltan | 0.001 | 0.002 | 0.000 | 0.004 | 0.668 |
|  |  |  |  |  | Enhanced Tuya | 0.001 | 0.001 | 0.000 | 0.003 | 0.666 |
|  |  |  |  |  | Non-Stikine | 0.974 | 0.014 | 0.949 | 0.992 | 0.000 |
|  |  |  |  |  | Stikine/Taku Mainstem | 0.018 | 0.012 | 0.002 | 0.039 | 0.025 |
|  |  |  |  |  | Wild Tahltan | 0.007 | 0.006 | 0.001 | 0.019 | 0.028 |
| 32 | 260 | 188 | 72 | 0 | Enhanced Tahltan | 0.001 | 0.002 | 0.000 | 0.004 | 0.658 |
|  |  |  |  |  | Enhanced Tuya | 0.001 | 0.002 | 0.000 | 0.004 | 0.658 |
|  |  |  |  |  | Non-Stikine | 0.971 | 0.014 | 0.945 | 0.991 | 0.000 |
|  |  |  |  |  | Stikine/Taku Mainstem | 0.026 | 0.014 | 0.007 | 0.051 | 0.005 |
|  |  |  |  |  | Wild Tahltan | 0.001 | 0.003 | 0.000 | 0.006 | 0.623 |
| 33 | 215 | 187 | 28 | 0 | Enhanced Tahltan | 0.001 | 0.002 | 0.000 | 0.005 | 0.704 |
|  |  |  |  |  | Enhanced Tuya | 0.001 | 0.002 | 0.000 | 0.005 | 0.697 |
|  |  |  |  |  | Non-Stikine | 0.995 | 0.006 | 0.984 | 1.000 | 0.000 |
|  |  |  |  |  | Stikine/Taku Mainstem | 0.002 | 0.004 | 0.000 | 0.010 | 0.587 |
|  |  |  |  |  | Wild Tahltan | 0.001 | 0.002 | 0.000 | 0.006 | 0.679 |
| 34 | 142 | 139 | 3 | 0 | Enhanced Tahltan | 0.001 | 0.003 | 0.000 | 0.007 | 0.688 |
|  |  |  |  |  | Enhanced Tuya | 0.001 | 0.003 | 0.000 | 0.006 | 0.670 |
|  |  |  |  |  | Non-Stikine | 0.962 | 0.019 | 0.925 | 0.988 | 0.000 |
|  |  |  |  |  | Stikine/Taku Mainstem | 0.035 | 0.019 | 0.009 | 0.069 | 0.004 |
|  |  |  |  |  | Wild Tahltan | 0.001 | 0.003 | 0.000 | 0.007 | 0.687 |
| 35 | 84 | 84 | 0 | 0 | Enhanced Tahltan | 0.002 | 0.005 | 0.000 | 0.013 | 0.648 |
|  |  |  |  |  | Enhanced Tuya | 0.002 | 0.006 | 0.000 | 0.012 | 0.651 |
|  |  |  |  |  | Non-Stikine | 0.931 | 0.035 | 0.866 | 0.979 | 0.000 |
|  |  |  |  |  | Stikine/Taku Mainstem | 0.062 | 0.034 | 0.016 | 0.125 | 0.004 |
|  |  |  |  |  | Wild Tahltan | 0.002 | 0.005 | 0.000 | 0.012 | 0.676 |

Appendix G. 7. Weekly stock proportion estimates (mean) of sockeye salmon harvested in the Alaskan District 108 commercial drift gillnet fishery, 2018.

| Sample Sizes |  |  |  |  | Reporting Group | MEAN | SD | C15\% | C195\% | P0 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| SW |  |  | Aged | Otolith Marked |  |  |  |  |  |  |
|  | Total | Genotyped | (not genotyped) | (not genotyped) |  |  |  |  |  |  |
| 27 | 60 | 41 | 0 | 19 | Enhanced Tahltan | 0.299 | 0.059 | 0.208 | 0.401 | 0.000 |
|  |  |  |  |  | Enhanced Tuya | 0.019 | 0.018 | 0.001 | 0.056 | 0.042 |
|  |  |  |  |  | Non-Stikine | 0.069 | 0.033 | 0.023 | 0.128 | 0.000 |
|  |  |  |  |  | Stikine/Taku Mainstem | 0.223 | 0.055 | 0.141 | 0.319 | 0.000 |
|  |  |  |  |  | Wild Tahltan | 0.390 | 0.061 | 0.292 | 0.494 | 0.000 |
| 28 | 302 | 186 | 62 | 54 | Enhanced Tahltan | 0.150 | 0.023 | 0.114 | 0.190 | 0.000 |
|  |  |  |  |  | Enhanced Tuya | 0.025 | 0.010 | 0.011 | 0.044 | 0.000 |
|  |  |  |  |  | Non-Stikine | 0.366 | 0.033 | 0.312 | 0.420 | 0.000 |
|  |  |  |  |  | Stikine/Taku Mainstem | 0.308 | 0.028 | 0.263 | 0.354 | 0.000 |
|  |  |  |  |  | Wild Tahltan | 0.150 | 0.024 | 0.113 | 0.192 | 0.000 |
| 29 | 421 | 300 | 33 | 88 | Enhanced Tahltan | 0.149 | 0.017 | 0.122 | 0.178 | 0.000 |
|  |  |  |  |  | Enhanced Tuya | 0.015 | 0.006 | 0.007 | 0.026 | 0.000 |
|  |  |  |  |  | Non-Stikine | 0.291 | 0.024 | 0.253 | 0.332 | 0.000 |
|  |  |  |  |  | Stikine/Taku Mainstem | 0.422 | 0.026 | 0.380 | 0.465 | 0.000 |
|  |  |  |  |  | Wild Tahltan | 0.122 | 0.017 | 0.095 | 0.151 | 0.000 |
| 30 | 310 | 223 | 48 | 39 | Enhanced Tahltan | 0.074 | 0.015 | 0.052 | 0.100 | 0.000 |
|  |  |  |  |  | Enhanced Tuya | 0.015 | 0.007 | 0.006 | 0.027 | 0.000 |
|  |  |  |  |  | Non-Stikine | 0.159 | 0.018 | 0.131 | 0.190 | 0.000 |
|  |  |  |  |  | Stikine/Taku Mainstem | 0.681 | 0.025 | 0.638 | 0.723 | 0.000 |
|  |  |  |  |  | Wild Tahltan | 0.071 | 0.016 | 0.046 | 0.098 | 0.000 |
| 31 | 148 | 110 | 22 | 16 | Enhanced Tahltan | 0.057 | 0.017 | 0.032 | 0.088 | 0.000 |
|  |  |  |  |  | Enhanced Tuya | 0.004 | 0.007 | 0.000 | 0.017 | 0.481 |
|  |  |  |  |  | Non-Stikine | 0.361 | 0.039 | 0.296 | 0.422 | 0.000 |
|  |  |  |  |  | Stikine/Taku Mainstem | 0.546 | 0.041 | 0.479 | 0.615 | 0.000 |
|  |  |  |  |  | Wild Tahltan | 0.031 | 0.014 | 0.012 | 0.058 | 0.000 |
| 32,33,34 | 82 | 65 | 37 | 28 | Enhanced Tahltan | 0.026 | 0.024 | 0.004 | 0.076 | 0.012 |
|  |  |  |  |  | Enhanced Tuya | 0.019 | 0.022 | 0.001 | 0.063 | 0.117 |
|  |  |  |  |  | Non-Stikine | 0.718 | 0.081 | 0.583 | 0.849 | 0.000 |
|  |  |  |  |  | Stikine/Taku Mainstem | 0.202 | 0.078 | 0.086 | 0.335 | 0.000 |

Appendix G. 8. Weekly stock proportion estimates (mean) of sockeye salmon harvested in the Alaskan District 111 traditional commercial drift gillnet fishery by week, 2018.

-continued-

Appendix G. 8. Page 2 of 2.

| SW | Sample Sizes |  |  |  | Reporting Group | MEAN | SD | CI5\% | CI95\% | P0 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total | Ge | Aged <br> (not genotyped) | Otolith Marked (not genotyped) |  |  |  |  |  |  |
| 30 | 400 | 179 | 3 | 218 | Enhanced King Salmon | 0.003 | 0.003 | 0.000 | 0.008 | 0.010 |
|  |  |  |  |  | Enhanced Snettisham | 0.519 | 0.025 | 0.480 | 0.560 | 0.000 |
|  |  |  |  |  | Enhanced Stikine | 0.003 | 0.003 | 0.000 | 0.008 | 0.014 |
|  |  |  |  |  | Enhanced Tatsamenie | 0.020 | 0.007 | 0.010 | 0.033 | 0.000 |
|  |  |  |  |  | Other | 0.011 | 0.008 | 0.001 | 0.026 | 0.020 |
|  |  |  |  |  | Speel Wild | 0.031 | 0.012 | 0.014 | 0.052 | 0.000 |
|  |  |  |  |  | Stikine/Taku Mainstem | 0.232 | 0.024 | 0.193 | 0.271 | 0.000 |
|  |  |  |  |  | Taku Lakes | 0.092 | 0.016 | 0.067 | 0.120 | 0.000 |
|  |  |  |  |  | Tatsamenie Wild | 0.089 | 0.014 | 0.067 | 0.114 | 0.000 |
| 31 | 400 | 184 | 18 | 198 | Enhanced King Salmon | 0.005 | 0.004 | 0.001 | 0.012 | 0.000 |
|  |  |  |  |  | Enhanced Snettisham | 0.459 | 0.025 | 0.417 | 0.499 | 0.000 |
|  |  |  |  |  | Enhanced Stikine | 0.000 | 0.001 | 0.000 | 0.002 | 0.720 |
|  |  |  |  |  | Enhanced Tatsamenie | 0.030 | 0.008 | 0.018 | 0.045 | 0.000 |
|  |  |  |  |  | Other | 0.027 | 0.010 | 0.012 | 0.045 | 0.000 |
|  |  |  |  |  | Speel Wild | 0.028 | 0.010 | 0.013 | 0.046 | 0.000 |
|  |  |  |  |  | Stikine/Taku Mainstem | 0.268 | 0.024 | 0.230 | 0.305 | 0.000 |
|  |  |  |  |  | Taku Lakes | 0.067 | 0.013 | 0.047 | 0.090 | 0.000 |
|  |  |  |  |  | Tatsamenie Wild | 0.116 | 0.017 | 0.090 | 0.146 | 0.000 |
| 32,33 | 101 | 21 | 2 | 78 | Enhanced King Salmon | 0.004 | 0.008 | 0.000 | 0.022 | 0.216 |
|  |  |  |  |  | Enhanced Snettisham | 0.662 | 0.046 | 0.586 | 0.740 | 0.000 |
|  |  |  |  |  | Enhanced Stikine | 0.004 | 0.008 | 0.000 | 0.019 | 0.234 |
|  |  |  |  |  | Enhanced Tatsamenie | 0.004 | 0.009 | 0.000 | 0.021 | 0.208 |
|  |  |  |  |  | Other | 0.048 | 0.029 | 0.011 | 0.102 | 0.000 |
|  |  |  |  |  | Speel Wild | 0.050 | 0.030 | 0.012 | 0.105 | 0.000 |
|  |  |  |  |  | Stikine/Taku Mainstem | 0.159 | 0.039 | 0.098 | 0.224 | 0.000 |
|  |  |  |  |  | Taku Lakes | 0.005 | 0.010 | 0.000 | 0.023 | 0.207 |
|  |  |  |  |  | Tatsamenie Wild | 0.064 | 0.031 | 0.021 | 0.122 | 0.000 |
| 34 | 328 | 100 | 2 | 226 | Enhanced King Salmon | 0.000 | 0.001 | 0.000 | 0.002 | 0.842 |
|  |  |  |  |  | Enhanced Snettisham | 0.680 | 0.026 | 0.639 | 0.721 | 0.000 |
|  |  |  |  |  | Enhanced Stikine | 0.000 | 0.001 | 0.000 | 0.002 | 0.839 |
|  |  |  |  |  | Enhanced Tatsamenie | 0.006 | 0.004 | 0.001 | 0.015 | 0.006 |
|  |  |  |  |  | Other | 0.030 | 0.011 | 0.015 | 0.051 | 0.000 |
|  |  |  |  |  | Speel Wild | 0.031 | 0.011 | 0.015 | 0.051 | 0.000 |
|  |  |  |  |  | Stikine/Taku Mainstem | 0.130 | 0.020 | 0.098 | 0.163 | 0.000 |
|  |  |  |  |  | Taku Lakes | 0.009 | 0.005 | 0.002 | 0.019 | 0.006 |
|  |  |  |  |  | Tatsamenie Wild | 0.113 | 0.018 | 0.085 | 0.144 | 0.000 |
| 35 | 300 | 42 | 2 | 256 | Enhanced King Salmon | 0.000 | 0.001 | 0.000 | 0.002 | 0.880 |
|  |  |  |  |  | Enhanced Snettisham | 0.841 | 0.021 | 0.807 | 0.875 | 0.000 |
|  |  |  |  |  | Enhanced Stikine | 0.004 | 0.003 | 0.000 | 0.010 | 0.176 |
|  |  |  |  |  | Enhanced Tatsamenie | 0.007 | 0.005 | 0.001 | 0.016 | 0.013 |
|  |  |  |  |  | Other | 0.003 | 0.004 | 0.000 | 0.011 | 0.312 |
|  |  |  |  |  | Speel Wild | 0.012 | 0.007 | 0.002 | 0.025 | 0.012 |
|  |  |  |  |  | Stikine/Taku Mainstem | 0.074 | 0.016 | 0.049 | 0.101 | 0.000 |
|  |  |  |  |  | Taku Lakes | 0.011 | 0.006 | 0.003 | 0.023 | 0.001 |
|  |  |  |  |  | Tatsamenie Wild | 0.048 | 0.012 | 0.029 | 0.069 | 0.000 |

Only samples from 111-32 were available for Stat Weeks 26-27, 30-31, and 34-35. There were only a total of 113 samples available for genotyping for 111-31 with the largest portion of those in SW29 ( $\mathrm{n}=86$ ).


[^0]:    ${ }^{a}$ Estimate includes approximately 30,000 mortalities from overcrowding on May 22, 1987.
    ${ }^{\mathrm{b}}$ Estimate of 595,147 on June 14 expanded by average \% of outmigration by date ( $97.5 \%$ ) from historical data.
    ${ }^{\text {c }}$ Estimate of 1,439,673 on June 13 expanded by average \% of outmigration by date ( $96.8 \%$ ) from historical data.
    ${ }^{\mathrm{d}}$ Estimate of $1,516,150$ on June 14 expanded by average \% of outmigration by date $(97.5 \%)$ from historical data.

[^1]:    ${ }^{\text {a }}$ Stopped flying index area 4 on the Nakina after 2009.

[^2]:    2012 weir count was adjusted to account for high water years when weir was disabled

[^3]:    ${ }^{a}$ Eggs not transported but placed in inlake incubator; $2000=244,000,2001=865,000,2002196,000,2003=190,000$.
    ${ }^{\mathrm{b}}$ Survival rates are for hatchery eggs and hatchery fry plants and do not inlcude the lake incubators.
    ${ }^{\text {c }}$ All died to IHNV

