PACIFIC SALMON COMMISSION JOINT TRANSBOUNDARY TECHNICAL COMMITTEE

FINAL ESTIMATES OF TRANSBOUNDARY RIVER SALMON PRODUCTION, HARVEST AND

ESCAPEMENT AND A REVIEW OF JOINT ENHANCEMENT ACTIVITIES IN 2016

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

## EXECUTIVE SUMMARY

Final estimates of harvests and escapements of Pacific salmon returning to the transboundary Stikine, Taku, and Alsek rivers for 2016 are presented and compared with historical patterns. Average, unless defined otherwise, refers to the most recent 10-year average (2006-2015). Relevant information pertaining to the management of appropriate U.S. and Canadian fisheries is presented and the use of inseason management models is discussed. Final results from TBR sockeye salmon Oncorhynchus nerka enhancement projects are also reviewed.

## Stikine River

The final postseason estimate of the 2016 Stikine River sockeye salmon terminal run was 247,900 fish, of which approximately 171,900 fish were harvested in various fisheries including assessment/test fisheries. An estimated 75,800 Stikine River fish escaped to spawn; 4,300 fish were removed for brood stock, and an estimated 8,700 fish migrated to the barrier in the Tuya River and were not harvested. The terminal run was above average and the harvest was above average. The Tahltan Lake sockeye salmon total weir count was 38,600 fish was above the goal range of 18,000 to 30,000 fish. The estimated spawning escapement of 28,700 mainstem Stikine River sockeye salmon was within 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 83,500 fish. The sockeye salmon harvest in the Canadian inriver commercial was 75,700 fish and the AF harvest was 10,600 fish. The inriver test fisheries harvested 1,800 sockeye salmon. Weekly inseason run projections from the SMM ranged from 153,500 to 242,500 sockeye salmon. The final inseason model prediction was 242,500 fish, with a TAC of 181,900 fish. The final postseason terminal run estimate was 247,900 fish and an AC estimate of 93,300 Stikine River sockeye salmon for each country, Canada harvested $93 \%$ and the U.S. harvested $89 \%$ of their respective TACs.

The 2016 Stikine River large Chinook salmon run was estimated at 15,500 fish, of which approximately 4,940 fish were harvested in various fisheries. The estimated escapement of Stikine River large Chinook salmon was 10,550 fish; below both the escapement goal of 17,400 fish and the escapement goal range 14,000 to 28,000 fish. The run and harvest were below their respective averages. The Little Tahltan River large Chinook salmon escapement of 920 fish was 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 U.S. commercial harvest of Stikine River Chinook salmon in Districts 108 gillnet, test, troll, subsistence, and sport fisheries was 1,710 fish. The estimated Canadian commercial, Aboriginal, assessment/test, and sport fisheries harvest was 3,240 fish. Managers used harvest in the MR, model, and other assessment estimates to generate inseason run sizes after SW 25. The inseason run projections were consistent throughout the course of the fishery in predicting a terminal run size that was substantially lower than the preseason expectation of 33,900 large Chinook salmon. Weekly inseason run projections ranged from 18,100 to 22,800 large Chinook salmon.

The 2016 run size of Stikine River coho salmon cannot be quantified. The U.S. harvest of Stikine River coho salmon is also unknown since there is no stock identification program for this species. Mixed stock coho salmon harvest in District 106 122,100 fish ( $41 \%$ Alaska hatchery) and District 108 was 22,200 fish ( $36 \%$ Alaska hatchery). The Canadian inriver coho salmon harvest of 5,300 fish was above average. The annual aerial surveys indicated a well below average return to the 6 index sites that were surveyed by Canada. The inseason weekly CPUE of coho salmon from both the lower Stikine River Canadian fishery and sockeye salmon test fishery (incidentally caught coho salmon) was below average.

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. Remedial work was done to improve fish passage at the landslide in March 2015. However, it is assumed the landslide still has the potential to continue to restrict upstream passage, especially during periods of high water. In 2016 radio telemetry results did not indicate that the Chinook salmon escapement was unduly affected, although the water levels were relatively low. Similarly, for sockeye salmon neither the timing nor the magnitude of the escapement (well above average) to Tahltan Lake appeared to be symptomatic of any impediments to migration.

## Taku River

The final postseason estimate of the 2016 Taku River sockeye salmon terminal run is 288,700 fish, 268,800 wild fish, and 20,000 hatchery fish. The U.S. harvested 68,000 Taku River wild fish, Canada harvested 33,300 wild fish and the estimated above border spawning escapement was 167,500 wild sockeye salmon. The terminal run size was above average. The wild escapement was well above average and well above the goal range of 71,000 to 80,000 fish. The U.S. and Canada harvested an estimated $45 \%$ and $76 \%$ of their respective ACs.

The estimated 2016 Taku River large Chinook salmon terminal run was 14,840 fish; above border run was 14,010 fish and spawning escapement was 12,380 fish. The run was the lowest on record and the harvests were well below average. The total harvest of large Chinook salmon in the inriver assessment/test fishery and Canadian commercial, Aboriginal, and recreational fisheries in the Taku River was 1,630 fish. The traditional District 111 mixed stock drift gillnet fishery total harvest of 580 Chinook salmon was the lowest on record dating back to 1960.

The estimated above border run of Taku River coho salmon in 2016 is 99,200 fish, which was average. The Canadian inriver commercial harvest was 9,500 coho salmon with an additional 2,000 fish harvested in the assessment/test fishery and 50 fish harvested in the aboriginal fishery. After all Canadian harvests are subtracted from the above border run the above border spawning escapement is estimated at 87,700 coho salmon, which exceeds the mid-point of the newly adopted escapement goal range of 50,000 to 90,000 fish. The U.S. harvest of 34,400 coho salmon in the traditional District 111 mixed stock fishery was below average. Alaskan hatcheries contributed an estimated 7,400 fish, or $21 \%$ of the District 111 harvest.

## Alsek River

The 2016 Alsek River harvest of 6,700 sockeye salmon in the U.S. commercial fishery was below average. The Canadian inriver recreational fishery reported no harvest sockeye salmon while the Aboriginal food fishery harvest was approximately 815 fish. The Klukshu River weir count of 7,600 sockeye salmon was below average and the escapement of 7,400 fish was below the escapement goal range of 7,500 to 11,000 fish. The count of 1,400 early run sockeye salmon (i.e. through August 15) and the late run count of 6,200 were both below average.

The 650 Chinook salmon counted through the Klukshu River weir was below average and the estimated escapement (also 651 fish) was below the escapement goal range of 800 to 1,200 Chinook salmon. The U.S. Dry Bay harvest of 130 large Chinook salmon was below average. The Canadian recreational and Aboriginal fishery harvests of 80 and 10 fish, respectively, were both below average.

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 operation of the Klukshu River weir does not provide a complete enumeration of coho salmon into this system since it is removed before the run is complete.

## Enhancement

For brood year 2016, an estimated 5.3 million eggs were collected at Tahltan Lake, transported to Snettisham Hatchery and 3.1 million fry were planted back in Tahltan Lake. An estimated 1.8 million eggs were collected at Tatsamenie Lake, transported to the hatchery and 1.2 million fry were transported back to the lake. One million fry were directly released into the Tatsamenie Lake and 144,000 fry were released from the extended rearing program. An estimated 271,000 eggs were collected at Lower Trapper Lake, transported to the hatchery and 212,000 fry were planted back in the lake. The fry planted into Lower Trapper Lake will help jump start the colonization of Upper Trapper Lake. In the late fall of 2017, barrier removal to Upper Trapper Lake is scheduled to begin. In the spring of 2016, brood year 2015 sockeye salmon were transported from Snettisham Hatchery to project lakes. Approximately 3.4 million sockeye salmon fry were planted in Tahltan Lake. Approximately 470,000 fry were planted in Tatsamenie Lake. An estimated 334,000 fry were designated to be directly planted in Tatsamenie Lake, but approximately 50,000 were pen reared in the lake as a "proof of concept" experiment. Approximately 86,000 sockeye salmon were reared in cap troughs on-shore, transferred to net pens and then released into the lake.

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 gillnet fisheries and to Canadian commercial fisheries in the Stikine and Taku rivers. Final estimates of stocked fish to Alaskan harvests were 31,400 Stikine River fish to District 106 and 108, and 6,800 Taku River fish to District 111. Final
estimates of stocked fish to Canadian fisheries included 33,300 fish to Stikine River fisheries and 4,000 fish to the Taku River fisheries.

## INTRODUCTION

This report presents final estimates of the 2016 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 (16)-1 Salmon Management and Enhancement Plans for the Stikine, Taku and Alsek Rivers, 2016.

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 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 $90 \%$ 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; no observation of fish succeeding in transiting the site was made until 30 June, when Tahltan River flows started to drop. Radio telemetry data, however, indicated the first radio tagged fish passed the weir on 28 June (on average approximately $50 \%$ of the fish enter the Tahltan River by late June). In 2015 during low flow regimes, sockeye salmon were observed being rejected from the landslide channel; moreover, several sockeye salmon carcasses were observed below the landslide. In 2016, water levels were generally conducive to fish passage; preliminary telemetry results and weir counts suggest that overall, escapements were not unduly affected by the landslide.


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 presumed production of enhanced fish.

As in most previous years, the TTC met 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 served as a key management tool governing weekly fishing regimes for Stikine River Chinook salmon. The SCMM, however, was 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 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 terminal run size based on MR studies conducted in 1996-2015. Most of the CPUE and run size data sets (CPUE vs. run size) are significantly correlated. Inseason model estimates were generated commencing in SW 22 and available for management purposes the following week (Table 1). Mark-recapture estimates based on the cumulative ratio of tagged-to-untagged fish observed in the inriver commercial fishery were generated commencing in SW 26 and were averaged with the SCMM for the remainder of the Chinook 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 33,900 large Chinook salmon was above the threshold run size limit of 28,100 fish (Table 1 ); hence, triggering the option to conduct a 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.

Table 1. Stikine River large Chinook salmon run size based on the Stikine Chinook Management Model and mark-recapture 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, 2016.

| SW | Start <br> Date | Terminal Run |  | TAC |  |  | Estimated Harvest Cumulative |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Estimate ${ }^{\text {a }}$ | Method ${ }^{\text {b }}$ | Total | Weekly | Cumulative |  |
| Canada Estimates |  |  |  |  |  |  |  |
| 19 | 1-May | 33,900 | Preseason | 4,740 | 140 | 140 | 46 |
| 20 | 8-May | 33,900 | Preseason | 4,740 | 334 | 474 | 154 |
| 21 | 15-May | 33,900 | Preseason | 4,740 | 378 | 851 | 296 |
| 22 | 22-May | 33,900 | Preseason | 4,740 | 357 | 1,208 | 647 |
| 23 | 29-May | 27,000 | SCMM | 2,250 | 322 | 1,530 | 896 |
| 24 | 5-Jun | 22,000 | SCMM | 0 | 0 | 0 | 896 |
| 25 | 12-Jun | 22,000 | SCMM | 0 | 0 | 0 | 896 |
| 26 | 19-Jun |  |  |  |  |  |  |
| 27 | 26-Jun |  |  |  |  |  |  |
| 28 | 3-Jul |  |  |  |  |  |  |
| 29 | 10-Jul |  |  |  |  |  |  |
| U.S. Estimates |  |  |  |  |  |  |  |
| 19 | 1-May | 33,900 | Preseason | 1,060 | 66 | 104 | 106 |
| 20 | 8-May | 33,900 | Preseason | 1,060 | 81 | 185 | 406 |
| 21 | 15-May | 33,900 | Preseason | 1,060 | 122 | 307 | 635 |
| 22 | 22-May | 33,900 | Preseason | 1,060 | 164 | 470 | 974 |
| 23 | 29-May | 20,147 | SCMM | 0 | 0 | 0 | 1,265 |
| 24 | 5-Jun | 21,846 | SCMM | 0 | 0 | 0 | 1,613 |
| 25 | 12-Jun | 21,802 | SCMM | 0 | 0 | 0 | 1,716 |
| 26 | 19-Jun | 22,799 | SCMM | 0 | 0 | 0 | 2,098 |
| 27 | 26-Jun | 21,159 | Average | 0 | 0 | 0 | 2,097 |
| 28 | 3-Jul | 19,187 | Average | 0 | 0 | 0 | 2,050 |
| 29 | 10-Jul | 19,882 | Average | 0 | 0 | 0 | 2,234 |
| Postseason estimates |  |  |  |  |  |  | 1,707 |

${ }^{\text {a }}$ Inseason estimates were generated and reported the previous SW
${ }^{\mathrm{b}}$ Average of mark-recapture and SCMM

The preseason forecast for the Stikine River large Chinook salmon terminal run was approximately 33,900 large Chinook salmon (Table 1), which indicated a run size characterized as slightly above average. Joint Canadian and U.S. inseason predictions of terminal run size ranged from 18,089 to 22,799 large Chinook salmon (Table 1) Project biologists used the daily harvest and effort data transmitted from the Kakwan Point tagging site and from the commercial fishing grounds to make weekly run projections based on the SCMM and MR models. Joint weekly run size estimates were calculated on Wednesday or Thursday of the current week and were used to set the following week's fishery openings. Given the paucity of spaghetti tags recovered inseason and customary high flows in May, affecting catching performance which drives the management model, managers used the preseason forecast during SW 19-22 The first inseason estimate was generated in SW 22. Based on MR data from the inriver commercial fishery tag recoveries and tag recoveries from Verrett and Little Tahltan river escapement sampling, and the U.S. harvest from

District 108, the final postseason estimate of the terminal run size of Stikine Chinook salmon was 15,496 large Chinook salmon, below the final inseason estimate of 18,089 large Chinook salmon in SW 29 (Table 1). The 2016 Little Tahltan River escapement of 921 large Chinook salmon represents $9 \%$ of the total Stikine River escapement of 10,343 large fish, close to the average of approximately $8 \%$ (note that this average has declined significantly in the last ten years).

## Sockeye Salmon

The preseason forecast for the Stikine River sockeye salmon run was approximately 223,000 fish (Table 2), and characterized as an above average run. The forecast included approximately 87,000 natural Tahltan sockeye salmon, 42,000 enhanced Tahltan fish, 38,000 enhanced Tuya sockeye salmon, and 56,000 mainstem sockeye salmon. The preseason forecast was used from SW 26 to 28 for the inriver fishery. The U.S. used the SMM beginning in SW 28 for District 106 and 108.

Starting in SW 27, 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 uses linear regression by historical stock specific harvest data to predict run size from cumulative CPUE for each week of the fisheries. It breaks the stock proportions in District 106 and 108 harvests, from 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 2016 was based on CPUE data from 1994 to 2011 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.

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 2016 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, 2010-2015, only one net per licence was permitted, while in 1996-1999 and 2005-2009 two nets per license were allowed. Only one net was permitted in the 2016 fishing season.

In 2014, 2015, and 2016 a new model was tested: the Stikine Forecasting Management Model (SFMM). The 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 and total allowable harvest for Stikine River sockeye salmon as estimated inseason by the Stikine Management Model and other methods, 2016.

| SW | Start <br> Date | Terminal <br> Estimate | Method | TAC |  |  | Cumula | Harvest |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Total | U.S. | Canada | U.S. | Canada |
| Model runs generated by Canada |  |  |  |  |  |  |  |  |
| 26 | 19-Jun | 223,000 | Preseason Forecast | 167200 | 83,600 | 83,600 |  | 4 |
| 27 | 26-Jun | 223,000 | Preseason Forecast | 167200 | 83,600 | 83,600 |  | 4,014 |
| 28 | 3-Jul | 223,000 | Preseason Forecast | 167200 | 83,600 | 83,600 |  | 17,452 |
| 29 | 10-Jul | 198,983 | SMM | 143183 | 71,592 | 71,592 |  | 27,226 |
| 30 | 17-Jul | 178,819 | SMM | 123019 | 61,510 | 61,510 |  | 53,761 |
| 31 | 24-Jul | 200,815 | SMM | 145015 | 72,508 | 72,508 |  | 59,413 |
| 32 | 31-Jul | 224,665 | SMM | 168865 | 84,433 | 84,433 |  | 78,883 |
| 33 | 7-Aug | 242,234 | SMM | 186434 | 93,217 | 93,217 |  | 81,338 |
| 34 | 14-Aug | 244,978 | SMM | 189178 | 94,589 | 94,589 |  | 86,091 |
| Model runs generated by the U.S. |  |  |  |  |  |  |  |  |
| 25 | 12-Jun | 223,000 | Preseason Forecast | 167,200 | 83,600 | 83,600 | 782 | 4 |
| 26 | 19-Jun | 223,000 | Preseason Forecast | 167,200 | 83,600 | 83,600 | 13,196 | 4,014 |
| 27 | 26-Jun | 223,000 | Preseason Forecast | 167,200 | 83,600 | 83,600 | 24,474 | 17,452 |
| 28 | 3-Jul | 153,986 | SMM | 89,514 | 44,757 | 44,757 | 26,368 | 27,226 |
| 29 | 10-Jul | 153,487 | SMM | 91,611 | 45,806 | 45,806 | 61,817 | 53,761 |
| 30 | 17-Jul | 178,820 | SMM | 117,547 | 58,773 | 58,773 | 66,509 | 59,413 |
| 31 | 24-Jul | 200,815 | SMM | 140,279 | 70,140 | 70,140 | 72,476 | 78,883 |
| 32 | 31-Jul | 224,665 | SMM | 163,774 | 81,887 | 81,887 | 73,118 | 81,338 |
| 33 | 7-Aug | 242,513 | SMM | 181,876 | 90,938 | 90,938 | 71,307 | 86,091 |
| Final postseason estimate |  |  |  | 186,524 | 93,262 | 93,262 | 83,441 | 86,716 |

Table 3. Terminal run reconstruction for Stikine River sockeye salmon, 2016.


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## U.S. Fisheries

The 2016 District 106 drift gillnet fishery was open for 47 days from June 13 through October 4. Total fishing time was average ( 48.0 days). Sections 6-A, 6-B, and 6-C were open simultaneously each week throughout the season. Weekly participation varied throughout the season with nearly half of the openings having above average effort and ranged between 76 permits in SW32 to 15 in SW41. Total season effort in boat days was 2,642 and was average ( 2,692 boat days).

District 106 drift gillnet fishery salmon total harvest was above average and included: 2,094 Chinook, 106,649 sockeye, 122,101 coho, 358,309 pink, and 130,236 chum salmon. Sockeye and pink salmon harvest were above average, coho, and chum salmon harvests were below average, and Chinook salmon was average. An estimated 723 Chinook salmon in the District 106 harvest (35\%) were of Alaska hatchery origin. An estimated 21,694 Stikine River sockeye salmon were harvested in District 106, approximately 20\% of the harvest. An estimated 50,505 coho salmon in the District 106 harvest were of Alaska hatchery origin.

Stikine River sockeye salmon harvests in the two major fishing areas of District 106 were markedly different. In the Sumner Strait fishery (Subdistrict 106-41/42) 72,954 sockeye salmon were harvested, of which 20,559 fish were estimated to be Stikine River sockeye salmon which contributed $28 \%$ of the total sockeye salmon harvest in that subdistrict. I the Clarence Strait fishery (Subdistrict 106-30) 33,695 sockeye salmon were harvested, of which an estimated 1,135 fish were estimated to be Stikine River sockeye salmon which contributed $3 \%$ of the total sockeye salmon harvest in that subdistrict.

The District 108 drift gillnet fishery was opened for a total of 58 days starting May 2 and included three weeks of directed Stikine River Chinook salmon fishing prior to sockeye salmon directed fisheries beginning SW 25 (June 13). Total fishing time was average (53 days). District 108 closed concurrently with District 106 on October 4. Participation in District 108 was below average most weeks, with the exception of SWs 26 through 30. The total season effort of 2,342 boat days was above the average of 2,296 boat days.

District 108 drift gillnet salmon total harvest was above average and included: 10,024 Chinook, 70,143 sockeye, 22,146 coho, 35,250 pink, and 200,653 chum salmon. Harvests of sockeye and chum salmon were above average, and Chinook, coho, and pink salmon harvests were below average. Large Chinook salmon harvested in District 108 drift gillnet fishery from SWs 19 through 29 totaled 4,824 fish and genetic stock analysis identified 1,060 large Chinook salmon harvested through SW 29 as above border Stikine River origin. In the District 108 drift gillnet fishery an estimated 59,622 Stikine River sockeye salmon were harvested which contributed to $85 \%$ of the District 108 sockeye salmon harvest. An estimated $36 \%$ ( 8,012 fish) of the District 108 coho salmon harvest were of Alaska hatchery origin.

In 2016, U.S. Federal subsistence fisheries targeting Chinook, sockeye, and coho salmon occurred on the Stikine River and were managed by the USFS. Subsistence fishing was
restricted to federally qualified users and required a permit issued by the USFS to participate and was restricted from marine waters to the U.S./Canadian border. Fishing in "clearwater" tributaries, side channels, or at stock assessment sites was also prohibited. Annual guideline harvest levels were 125 Chinook, 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, except during the Chinook salmon fishery when nets with mesh up to 8 inches were allowed. Subsistence fishing was allowed from May 15 to June 20 to target Chinook salmon, June 21 to July 31 to target sockeye salmon, and August 1 to October 1 to target coho salmon. In 2016, a total of 47 permits were issued and the estimated harvests included 20 large Chinook, 2,126 sockeye, and 73 coho salmon.

The Stikine River Chinook salmon preseason forecast was 33,900 large Stikine River Chinook salmon, which resulted in a U.S. AC of 1,060 large Stikine River Chinook salmon. This U.S. AC was large enough to allow for a limited directed commercial gillnet and troll fisheries that began on the first Monday in May. Opening lengths for the gillnet fishery were determined by anticipated effort combined with available AC. The preseason forecast was used to determine AC until reliable inseason run estimates were generated. Troll fishery openings are dependent on gillnet fishery openings. If gillnet fishing was opened for 1 day the subsequent troll fishery would open for 3 days. The Stikine River flats remained closed to gillnet throughout the directed Chinook salmon fishery. Small area closures also occurred to reduce conflicts between commercial and sport fishermen and to reduce steelhead interception. Additional restrictions included a minimum mesh size of 7 inches for gillnetters throughout the directed Stikine Chinook salmon fishery as a tool for steelhead conservation.

On May 1, sport fish regulations were liberalized in the marine waters of District 8 due to an allowable harvest of Stikine River Chinook salmon. Liberalized regulations for sport fish anglers included the use of two rods per person and a resident daily bag limit of three Chinook salmon, 28 inches or greater in length, and a possession limit of six king salmon, a nonresident bag and possession limit of two king salmon, 28 inches or greater in length, with an annual limit of six king salmon. On June 2, the liberalized sport fish regulations were rescinded due to assessments indicating towards a weaker run that would not run an U.S. AC. The 2016 estimated sport fish harvest of 438 Stikine Chinook salmon was below the average harvest of 1,412 fish since directed fisheries were reinstated in 2005.

The District 108 directed Stikine Chinook gillnet fishery began at 8:00 a.m. on Monday, May 2, (SW 19) for a 1-day opening and 3-day opening for the troll fishery. There were 4 gillnetters that made landings in District 108 during the initial opening, with several more boats reporting no harvest. The majority of boats fished in Section 8-B, and this trend continued throughout the directed Stikine Chinook salmon gillnet fishery. Average gillnet harvest rates in this initial opening were lower than years with a similar forecast. The District 108 gillnet harvest during SW 19 was 7 large Chinook salmon. The troll and sport fisheries harvested an additional 197 fish. The U.S. weekly AC cumulative guideline, based on historical run timing and the preseason forecast, was 104 Stikine Chinook salmon. After factoring in the troll and sport fish harvests, and deducting the hatchery component, the
total U.S. harvest of 204 Stikine Chinook salmon, which was above the weekly cumulative guideline.

During SW 20 (May 8-May 14) and SW 21 (May 15-May 21) District 108 was opened with the same area and time as the previous week. Gillnet effort increased to 11 boats making landings in SW 20 and 12 boats in SW 21, well below the 2005-2012 average (years with directed gillnet fisheries). The cumulative harvest based on CWT of large Stikine Chinook salmon by the U.S. fisheries was estimated to be 783 fish, above the allowable cumulative harvest guideline of 307 fish. Average harvest rates showed minimal increases as the fishery developed, but continued to be well below expectations. Low fish abundance hampered attempts to assess the run size inseason; however, poor fishery performance in both marine and inriver fisheries indicated lower abundance than what was expected. As a result, directed commercial fisheries closed until the start of the directed sockeye salmon fishery. The troll fishery reverted to a spring troll fishery on May 22 and was limited to two hatchery access areas near Anita Bay. The directed Stikine Chinook salmon gillnet fishery was open for a total of 3 days and an estimated 102 large Stikine Chinook salmon were harvested based on CWT information. The directed troll fishery was open for 9 days and harvested and estimated 405 large Stikine Chinook salmon based on CWT information. The final postseason estimate of the terminal run size based on MR information was 15,496 Stikine River large Chinook salmon resulting in no U.S. AC (Table 1). The total cumulative harvest estimate through SW 29 was 1,707 fish based on GSI analysis, well below the U.S. base level harvest of 3,400 fish. The harvest included 1,060, 560,438 , and 20 fish from gillnet, troll, sport, and subsistence fisheries, respectfully.

Stikine River sockeye salmon preseason forecast indicated an above average terminal run size of 223,000 fish, with a resulting U.S. AC of 80,000 fish (Table 2). Preseason forecasts were the primary basis used for 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 throughout the end of season with the final inseason estimate being produced in SW 32. Inseason abundance estimates were highly variable and ranged between 154,000 and 243,000 fish. The postseason Stikine River sockeye salmon run estimate of 247,892 fish resulted in an U.S. AC of 93,262 sockeye salmon. The total U.S. cumulative harvest was estimated to be 83,441 fish, based on GSI analysis (Table 3).

Directed sockeye salmon drift gillnet fisheries in Districts 106 and 108 began in SW 25 at 12:00 noon on Monday, June 13, for an initial period of 2 days. The opening was initially planned for 3 days based on the preseason forecast and anticipated effort but was reduced to two days due to the low returns of Stikine River Chinook salmon. Additionally, an expanded area off the Stikine River delta in District 108 was closed. Effort was comprised of 6 boats in Clarence Strait (106-30), 25 boats in Sumner Strait (106-41), and 50 boats in District 108. An estimated 1,027 Stikine River sockeye salmon were caught in the District 106 and 108 drift gillnet fisheries this week.

Districts 106 and 108 drift gillnet fisheries opened for an initial 3 days in SW 26 (June 19June 25). Fishing time was based on the anticipated available AC derived from the well above average forecast of Tahltan sockeye salmon. The expanded closure remained in
place for the initial 3-day opening. On the grounds surveys indicated an abundance of sockeye salmon below the level to warrant additional fishing time in District 106. However, harvest rates were well above average for fishermen targeting sockeye salmon in District 108. Sockeye salmon harvest rates for inriver fisheries in the Stikine River were also well above average with stock assessments indicating the harvest consisted primarily of Tahltan Lake sockeye salmon. With good sockeye salmon harvest rates providing confidence in the forecast, a 2-day midweek opening occurred in District 108. The expanded closure was reduced for the midweek opening to the Old Stikine closure line which kept the Stikine River delta closed. An estimated 13,625 Stikine River sockeye salmon were harvested this week with the majority ( 10,477 fish) being harvested in District 108. During SW 26, 34 boats fished in Sumner Strait, 12 boats fished in Clarence Strait, and 74 boats fished in District 108.

Both districts were opened for an initial three days in SW 27 (June 26-July 2) beginning Sunday at noon with District 108 opening for an additional 2.5 day midweek opening. Area restrictions in District 108 were relaxed to open the Stikine River delta, which has not been opened to the commercial drift gillnet fishery since 2007. Harvest in District 106 did not indicate a surplus of sockeye salmon to warrant extra time. Sockeye salmon harvest in District 108 continued to be well above average. There were 36 boats in Sumner Strait, 23 boats in Clarence Strait, and 85 boats in District 108. An estimated 23,029 Stikine River sockeye salmon were caught this week; 3,896 fish in District 106 and 19,133 fish in District 108.

During SW 28 (July 3-July 9), Districts 106 and 108 were opened for an initial 3 days with an additional 2.5 -day midweek opening in District 108. The first inseason forecast of Stikine River sockeye salmon terminal run size generated for this week was 154,000 fish with a resultant U.S. AC of 44,800 fish, which was considerably below the preseason forecasts (Table 2). However, on the grounds surveys of the gillnet fleet in both districts indicated well above average sockeye salmon abundance. This combined with good inriver harvests indicated that the SMM was not responding well as is typical for initial model outputs. The U.S. cumulative harvest of Stikine River sockeye salmon through SW 28 was estimated to be 59,671 fish. There were 27 boats in Clarence Strait, 29 boats in Sumner Strait, and 76 boats in District 108.

Districts 106 and 108 were opened for an initial 4 days during SW 29 (July 10-July 16) with an additional 1-day mid-week opening in District 108. Effort continued to be below average in District 106 with 24 boats in Clarence Strait and 33 boats in Sumner Strait. Harvest rates of sockeye salmon in both subdistricts fell to below average. Effort in District 108 decreased to near average with 58 boats making landings. Surveys of fishermen targeting sockeye salmon in District 108 indicated that harvest rates of sockeye salmon continued to be well above average for the fourth week in a row. The SMM assessment provided a slight decrease with a projected run size of 153,500 sockeye salmon, which resulted in a U.S. AC of 45,800 fish (Table 2). By this week, it was evident that the SMM was slow to react to a robust Stikine River sockeye salmon run as indicated by both marine and inriver harvests. An estimated 11,277 Stikine River sockeye salmon were harvested in SW 29 with a cumulative harvest of 70,949 fish.

Both districts were open for an initial 3 days during SW 30 (July 17-July 23). Sockeye salmon harvest rates, on average, usually began to decline for SW 30 in District 106. Although this was the case in Clarence Strait, surveys in Sumner Strait indicated harvest rates that were well above average. Harvest rates were also above average for fishermen in the traditional areas targeting sockeye salmon in District 108. Although the numbers of vessels fishing in District 108 increased this week, very few targeted sockeye salmon. Run size estimates and corresponding U.S. AC produced by the SMM increased in SW 30 with a predicted terminal run size of 178,800 Stikine River sockeye salmon, which resulted in a U.S. AC of 58,800 fish (Table 2). Inseason estimates generated by the SFMM pointed towards a run size larger than the preseason forecast. Due to the low effort in District 108, above average harvest rates, and available U.S. AC, a 1-day extension occurred in both districts. An estimated 5,326 Stikine River sockeye salmon were harvested by U.S. fisheries this week. Effort included 26 boats in Clarence Strait, 40 boats in Sumner Strait, and 68 boats in District 108.

Sockeye salmon harvests began to wane in SW 31; however, harvest rates remained above average for the next few weeks. Statistical week 31 (July 24-July 30) was the final week for Stikine River sockeye salmon management. Both districts were open for an initial 3 days beginning July 24 . The inseason forecast used for SW 31 estimated a terminal run size of 200,800 Stikine River sockeye salmon with an available U.S. AC of 70,100 fish (Table 2). On the grounds surveys indicated that sockeye salmon harvest rates were better than average again in District 106. Harvest rates in District 108 decreased from previous weeks but remained above the 10 -year average. Overall, fishery performance did not indicate a surplus of sockeye salmon above the estimated harvest for this week and both districts closed as scheduled. Effort included 31 boats fishing in Clarence Strait, 36 boats in Sumner Strait, and 63 boats in District 108. The estimated U.S. harvest of Stikine River sockeye salmon in SW 31 was 2,439 fish with a cumulative harvest through SW31 of 78,714 fish. An estimated 2,602 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 35 (July 31-August 27), 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 SW 32 through 34 . SW 35 was open for 2 days. Effort in both districts was above average in SW 32 and SW 34 and below average in SW 33. Effort was above average for District 106 and below for District 108 during SW 35.

Beginning in SW 36 (August 28-September 3), management emphasis transitioned from pink to coho salmon abundance. Prior to the switch to coho salmon management, 52,600 coho salmon, approximately $43 \%$ of the total District 106 had been harvested. The hatchery contribution was approximately 14,400 fish in District 106 prior to SW 36 and was comprised primarily of Neck Lake/Burnett Inlet enhanced summer coho salmon. During the coho salmon management period, coho salmon harvests were above average in District 106 with an estimated harvest of 33,500 hatchery fish and 33,400 wild coho salmon. Harvest of wild coho salmon in District 108 was below average with an estimated harvest
of 14,000 fish. Both districts opened for 2 days during the first two weeks of coho salmon management. Starting SW 38, both districts were opened for 3 days each week through SW 39 and then open for 2 days for the final opening in SW 40. The 2016 gillnet season concluded at noon on Tuesday, October 4, in both districts.

## Canadian Fisheries

Final harvests from the combined Canadian commercial, Aboriginal gillnet and sport fisheries in the Stikine River in 2016 included; 2,731 large Chinook, 794 nonlarge Chinook, 86,716 sockeye, 5,346 coho, 364 chum, and 89 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 2016.

The harvest of large and nonlarge Chinook salmon was below average. The sockeye salmon harvest was above average. The final 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 33,273 fish, $38 \%$ of the catch. The harvest of 5,346 coho salmon was above average.

The Chinook salmon assessment fishery was initiated in 2016 once the directed fishery had been suspended, catches included; 483 large Chinook, 39 nonlarge Chinook, and 13 sockeye salmon. A sockeye salmon test fishery was conducted for stock assessment purposes in the lower Stikine River from 23 June to 28 August, 2016. The test fishery was located immediately upstream from the Canada/U.S. border. Test fishery catches totaled 21 large Chinook, 16 nonlarge Chinook, 1,760 sockeye, 140 coho, 33 pink, 40 chum salmon, and 52 steelhead trout (all steelhead trout were 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 conducted in the lower Stikine River in 2016.

## Lower Stikine River Commercial Fishery

Canadian commercial fishers in the lower Stikine River harvested 2,116 large Chinook, 655 nonlarge Chinook, 75,739 sockeye, 5,346 coho, 89 pink, and 364 chum salmon. A total of 626 steelhead trout were released in 2016; 274 pink and 416 chum salmon were also released. In respect to the catch of large Chinook salmon, 897 fish were harvested in a directed Chinook salmon fishery (SWs 19-23) and 1,219 large Chinook salmon were harvested in the directed sockeye and coho salmon fisheries (SWs 26-36). The catches of sockeye and coho salmon were above average, while the harvest of large and nonlarge Chinook salmon was below average.

The fleet targeted Chinook salmon for a total of 136 boat days, which was below the average of 206 boat days. Sockeye salmon were targeted for a total of 429 boat days, above the average of 342 boat days. The coho salmon fishery was opened for a total of 130 boat days, above the average of 107 boat days.

The stock composition of the lower river commercial fishery harvest of sockeye salmon was 15,332 enhanced Tahltan fish, which accounted for $20.2 \%$ of the sockeye salmon harvest; 36,688 wild Tahltan sockeye salmon accounting for $48.3 \%$ of the harvest; 11,151 mainstem fish accounting for $16.2 \%$ of the harvest; and, 12,568 enhanced Tuya sockeye salmon accounted for $16.6 \%$ of the harvest (Table 3).

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, were developed each week to guide management decisions during the Chinook and sockeye salmon seasons. After SW 25, for purposes of managing the lower river harvest, 800 large Chinook salmon were allocated to the upper Stikine River commercial and Aboriginal fisheries. The allocation consisted of 100, 20, and 680 large Chinook salmon in the sport, upper commercial and AF, respectively. A total of 8,000 sockeye salmon was allocated to the upper Stikine River commercial and AF. The remaining balance of the Chinook and sockeye salmon TAC was allocated to the lower Stikine River commercial fishery. Particular attention was directed at weekly Chinook salmon guideline harvests and the inriver run and escapement projections of the various sockeye salmon stock groupings. Management through SW 23 was focused on the harvest of large Chinook salmon taken in a directed commercial fishery. From SW 26 through SW 30, management emphasis switched to 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 but similar 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 commenced on SW 35.

The preseason forecast of 33,900 large Chinook salmon was above the treaty agreed to threshold run size of 28,100 fish that triggers a directed fishery. A targeted commercial fishery was prosecuted by Canada in 2016. The Canadian guideline harvests in the directed Chinook salmon fishery were based on an overall AC of 4,740 large Chinook salmon. This TAC was apportioned from SW19 through SW 25. The weekly guideline harvests were derived from historical run timing data from the 2006-2015 inriver commercial fisheries.

The Chinook salmon directed fishery regime commenced at 1200 hrs, 01 May (SW 19). The sockeye salmon fishery regime (that incidentally harvested Chinook salmon allocated under the base level allocation) commenced at 1200 hrs 19 June (SW 26). Fishers were limited to one net with a maximum length of 135 metres ( 443 ft .). The maximum mesh size was 203 mm ( 8 in .) when targeting Chinook or coho salmon, and 140 mm ( 5.5 in .) when targeting sockeye salmon. The fishing zone extended from the Canada/ U.S. boundary to a
point near the confluence of the Porcupine and Stikine rivers and the lower 10 km reach of the Iskut River.
(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.)

The first directed Chinook salmon fishery opening was posted for 24 hrs commencing 1200 hrs 01 May (SW 19). The guideline harvest was 140 large Chinook salmon, based on the preseason forecast. Water levels were above average and rising during the fishing period. The estimated harvest after 20 hrs of fishing indicated a projected harvest for a 24 hrs period of $\sim 30$ large Chinook salmon. An additional 24 hrs was added to fishery. The final catch was 46 large Chinook salmon. The fish per boat day (fbd) of 2.1 large Chinook salmon was below average.

The fishery was posted for 24 hrs in SW 20 with a weekly guideline harvest of $\sim 330$ large Chinook salmon based on the preseason forecast. A 20 hrs hail suggested that catch rates had doubled those from SW 19. The decision was made to extend the fishery for 24 hrs for day 2 and again for day 3. The final weekly harvest was 108 large Chinook salmon taken under above average and stable water conditions. The fbd of 3.7 large Chinook salmon was approximately $40 \%$ of average. The cumulative CPUE at the Kakwan tagging site was only $15 \%$ of average.

The fishery was posted for 24 hrs in SW 21 with a weekly guideline harvest of $\sim 380$ large Chinook salmon, again, based on the preseason forecast. A 20 hrs hail suggested a catch of 58 large Chinook. CPUE for day 1 was nearly twice that of the previous week. Extended the fishery for 24 hrs (day 2 ) and again for another 24 hrs period on day 3 . The final harvest for the week was 142 large Chinook salmon taken during above average water levels. The fbd of 4.9 large Chinook salmon was well below the average of 11.8 large Chinook salmon. The cumulative CPUE at the Kakwan tagging site was only $24 \%$ of average.

In SW 22 the fishery was posted for 48 hrs with a weekly guideline harvest of $\sim 360$ large Chinook salmon using the preseason forecast. The projected catch after day 2 was $\sim 300$ large fish. The decision was to extend for a final 10 hrs . Water rose throughout day 1 and 2. The catch rate was 8.3 fbd after 44 hrs versus the average of 11.2 fbd for the week. The final harvest for the week was 352 large Chinook salmon taken in above average water levels. The catch rate improved to 8.9 fbd for the week which was still below average. The cumulative CPUE at the Kakwan tagging site remained well below average.

In SW 23, the fishery was posted for only 24 hrs with a weekly guideline harvest of $\sim 680$ large Chinook salmon. A joint inseason estimate had not yet been generated but based on the preliminary analysis; the run looked to be well below the preseason forecast. After 20 hrs of fishing, the catch rates continued to be well below average and the decision was made not to extend the fishery. The final harvest for the week was 249 large Chinook salmon. The water level was below average and stable through the fishing period. The catch
rate ended the week at 14.7 fbd versus an average of 21.3 large Chinook salmon per day. Estimates made after the close of the fishery suggested the terminal run was $\sim 22,000$ large Chinook salmon, well below the preseason forecast. At run sizes of this magnitude, there is no AC for Canada. The directed fishery ended and the decision was made to initiate an assessment fishery for SW 24-25. The assessment fishery catch was 483 large Chinook salmon in which a total of 5 spaghetti tags were recovered. The terminal run projection remained $\sim 22,000$ large Chinook salmon after the assessment fishery was completed in SW 25.

In SW 26, fishery management switched to 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 grounds remained the same as defined in the Chinook salmon fishery. The overall Canadian sockeye salmon AC of 83,600 including 52,200 Tahltan Lake sockeye salmon, 18,800 Tuya Lake sockeye salmon and 12,600 mainstem sockeye salmon was based on the preseason run size expectation of 223,000 fish.

The fishery was posted for an initial 48 hrs period commencing Sunday noon, 19 June (SW 26). The guideline catch for sockeye salmon was 7,600 fish (including $\sim 5,700$ Tahltan Lake sockeye salmon). Tahltan catch rates were above average for day 1 ( $99 \%$ small egg fish) while Chinook salmon catches were below average. The decision was made to extend the fishery by 24 hrs. Catches for day $2(1.2 \mathrm{k})$ were similar to day 1 . No further extensions were made due to dropping Chinook salmon projections ( $\sim 21 \mathrm{k}$ term. run). The three day fishery yielded a harvest of 423 large Chinook salmon and 3,982 sockeye salmon, including $\sim 2,800$ Tahltan Lake sockeye salmon. The total weekly sockeye salmon harvest was comprised of $70 \%$ Tahltan, $29 \%$ Tuya, and $1 \%$ mainstem sockeye salmon. The Tahltan sockeye salmon fbd was 53 versus an average of 40 fish.

The fishery was posted for an initial 72 hrs period in SW 27 with a sockeye salmon guideline harvest of 18,000 fish, including 13,300 Tahltan Lake sockeye salmon. The weekly guideline was based on the preseason forecast. The harvest of approximately 8,000 Tahltan/Tuya sockeye salmon and dropping large Chinook salmon catches after day 2 indicated that there was room to extend the fishery. The above average fbd of Tahltan Lake sockeye salmon prompted the decision to add an additional 48 hrs . The fishing conditions were very good due to below average and stable water levels. The final catches for the week consisted of 361 large Chinook, 193 nonlarge Chinook, and 16,468 sockeye salmon; including $\sim 13,400$ Tahltan Lake origin fish which was in line with the weekly guideline. The total weekly sockeye salmon harvest was comprised of $81 \%$ Tahltan, $18 \%$ Tuya, and $1 \%$ mainstem sockeye salmon. The Tahltan sockeye salmon fbd was 149 versus an average of 115 fish.

In SW 28 the fishery was posted for an initial 72 hrs period with a guideline harvest of $\sim 14,600$ sockeye salmon including 10,200 Tahltan Lake sockeye salmon. The run size generated from the SMM in SW 27 of approximately 154,00 sockeye salmon, including $\sim 71,000$ Tahltan Lake origin fish, was considered to be low based on the US catches and the inriver CPUE data; therefore, management decisions were based on the preseason forecast for SW 28. Catch rates after day 2 continued to be well above average for this
period (183 fbd versus 112) and the Tahltan/Tuya composition was holding at $97 \%$, based on this, the fishery was extended for 48 hrs. The catch for the week consisted of 265 large Chinook and 20,321 sockeye salmon, including a harvest of 15,950 Tahltan Lake sockeye salmon. The Chinook salmon harvest was well below average for SW 28. The harvest of Tahltan sockeye salmon was well above the guideline. The total weekly sockeye salmon harvest was comprised of $79 \%$ Tahltan, $19 \%$ Tuya, and $2 \%$ mainstem sockeye salmon. The week's Tahltan Lake sockeye salmon fbd of 183 was well above average. 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 72 hrs opening with a guideline harvest of $\sim 10,800$ sockeye salmon, including 8,500 Tahltan sockeye salmon. This week's run size estimate was generated using the SMM (day 1, SW 29) and it indicated a run size of approximately 199,000 sockeye salmon. The Tahltan Lake component was estimated at 135,000 fish, slightly above the preseason forecast. The estimated catch of 5,500 Tahltan Lake sockeye after 2 days of fishing prompted a 24 hrs extension. This week's 4 day fishery yielded a harvest of 90 large Chinook and 13,299 sockeye salmon. The Tahltan Lake sockeye salmon harvest of 11,204 fish was above the guideline harvest for this week. The total weekly sockeye salmon harvest was comprised of $84 \%$ Tahltan, $9 \%$ Tuya, and $7 \%$ mainstem sockeye 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 through SW 30.

In SW 30 the fishery management regime remained focused on Tahltan Lake sockeye salmon abundance. The fishery was posted for an initial 48 hrs period with a guideline harvest of $\sim 4,000$ sockeye salmon, including 3,500 Tahltan Lake sockeye. Again, the run size estimate was based on the SMM for the week. The terminal run estimate had dropped to $\sim 179,000$ sockeye salmon, of which 126,000 were Tahltan fish. The catch of $\sim 3,300$ sockeye salmon taken during the first 24 hrs of the opening plus a Tahltan/Tuya composition of $81 \%$ prompted a 24 hrs extension. This week's 72 hrs fishery yielded a harvest of 46 large Chinook and 9,247 sockeye salmon, including a Tahltan Lake sockeye salmon harvest of 6,034 fish. The Tahltan Lake sockeye salmon harvest was above the weekly guideline. The total weekly sockeye salmon harvest was comprised of $65 \%$ Tahltan, $9 \%$ Tuya, and $26 \%$ mainstem sockeye salmon. The Tahltan Lake sockeye salmon fbd was well above average, whereas the mainstem sockeye salmon fbd of 50 fish was near the average of 54 fish for this week, indicating that the mainstem sockeye salmon return may be as forecasted $(\sim 56,000)$. The fishery was conducted under near average 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 48 hrs opening with a guideline harvest of $\sim 4,000$ sockeye salmon of which there were no available AC for mainstem sockeye salmon. The run size projection increased to $\sim 201,000$ sockeye salmon based on the SMM but the mainstem projection had diminished to $\sim 20,000$ fish which was well below the preseason expectation. The increase in overall
run size was driven primarily by the above average abundance of Tahltan Lake sockeye salmon in SW 30 and this had a negative impact on the mainstem sockeye salmon projection. It was believed that the model projection of mainstem sockeye salmon was low based on the average catch rates observed inriver. The day one harvest of $\sim 1,200$ mainstem sockeye salmon and a fbd of 79 were encouraging but the decision was made to hold the fishery at 48 hrs in light of the poor SMM projection. This week's 48 hrs fishery harvested 15 large Chinook, 12 coho, and 5,240 sockeye salmon, including 2,987 mainstem fish. The total weekly sockeye salmon harvest was comprised of $37 \%$ Tahltan, $6 \%$ Tuya, and $57 \%$ mainstem sockeye salmon. The mainstem sockeye salmon fbd of 96 fish was well above the average of 50 .

In SW 32, the fishery was posted for 48 hrs period with a guideline harvest of $\sim 400$ mainstem sockeye salmon. The TAC was based on an overall run size projection of $\sim 225,000$ sockeye salmon including 36,000 mainstem sockeye salmon generated by the SMM which was a significant improvement over the previous estimate but still below what was felt to be a stronger mainstem sockeye salmon return. Consideration for an extension was not given due to the current mainstem sockeye salmon projection despite strong CPUE for mainstem fish. This week's fishery conducted under below average water levels yielded a harvest of 13 large Chinook, 86 coho, and 3,891 sockeye salmon, including a mainstem sockeye salmon catch of 2,568 fish. The mainstem sockeye salmon fbd was 80 versus an average of 52 fish.

In SWs 33 and 34, the fishery was held to a 24 hrs period for each of the weeks. Terminal run projections made by the SMM had improved to $\sim 245,000$ sockeye salmon with 52,000 of those being mainstem fish. By the end of SW 34, Canada had harvested $\sim 11,000$ mainstem sockeye salmon which was slightly above an AC of $\sim 10,400$. Catch rates for mainstem sockeye salmon continued to be well above average for SWs 33 and 34 which were 56 and 46 fbd respectively. Fishing conditions were generally good with average to below average water levels and effort held until SW 34 when only 11 licences fished.

In SW 35, the fishery was opened for an initial 72 hrs period with the management objective focused on coho salmon abundance. A total of 12 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 34 fbd near the average of 36 . After 2 days of fishing, the fishery was extended for 24 hrs . This week's 72 hrs fishery yielded a harvest of 1,591 coho and 997 sockeye salmon, $90 \%$ of which were mainstem sockeye salmon.

In SW 36, the fishery was opened for an initial 72 hrs period. A total of 16 licences fished for the week. After 2 days of fishing and a harvest of $\sim 1,100$, the fishery was extended for 48 hrs and then a final 12 hrs after the fifth day of fishing. The final week of the fishery yielded a harvest of 3,366 coho and 587 sockeye salmon, $90 \%$ of which were mainstem sockeye salmon. The final coho salmon harvest was 5,346 fish, 389 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 333 sockeye and no large Chinook salmon were caught in 2016, which was well below the average. The fishing effort of 6 boat days fished was below average. Generally, fishery openings were based on the lower Stikine commercial fishery openings, lagged one week.

## Aboriginal Fishery

The upper Stikine AF fishery, which is located near Telegraph Creek, B.C., harvested 615 large Chinook, 139 nonlarge Chinook and 10,644 sockeye salmon in 2016. The harvest of large Chinook salmon was average. The harvest of sockeye salmon was the highest on record, assumed to be driven by the above average Tahltan Lake sockeye salmon run size, good fishing conditions, and increased effort.

## 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 2016, the harvest of Chinook salmon was believed to be negligible. Restrictions were in place on the Tahltan River starting June 01 that did not permit salmon fishing until further notice in an attempt to protect holding Chinook salmon that were negotiating the partial barrier created by the landslide that occurred in 2014. 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. On July 15, retention of Chinook salmon was restricted to 2 per day which had to be 65 cms or less on the Stikine River including the Tahltan River. The quota change was in response to the low escapement projection for large Chinook salmon.

## Escapement

## Sockeye Salmon

A total of 38,631 sockeye salmon were counted through the Tahltan Lake weir in 2016, $40 \%$ above the average of 27,639 fish and above the escapement goal range of 18,000 to 30,000 fish. An estimated 14,918 fish ( $39 \%$ of the escapement) originated from the frystocking program, which was similar to the $30 \%$ contribution observed in smolts leaving the lake in 2013, the principal smolt year contributing to the 2016 return. A total of 4,315 sockeye salmon were collected for brood stock and 173 fish were collected for stock identification purposes, resulting in a spawning escapement of 34,143 sockeye salmon in Tahltan Lake. Although remedial work was done at the Tahltan River landslide in March 2015, the site remains a potential challenge for both Chinook and sockeye salmon for migration to their respective spawning grounds located above the landslide. However, the
landslide does not appear to have had a significant impact on passage of sockeye salmon in 2016, which could be due to below average water levels this past season.

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 28,646 fish, the target escapement is 30,000 fish, and within the escapement goal range of 20,000 to 40,000 fish. The Tuya escapement estimate was 8,698 sockeye salmon. Aerial survey counts of mainstem sockeye salmon were below average in 2016- the reason for this is unclear but poor viewing conditions encountered on two indices contributed to the low count.

## Chinook Salmon

In 2016 to assess the inriver Chinook salmon abundance, a MR study was conducted concurrently with the SCMM. Inseason MR estimates for large Chinook salmon were calculated weekly; SW 26-29. The postseason Stikine River spawning escapement estimate of 10,554 large Chinook salmon was based on tag recoveries from the commercial fishery and spawning ground recoveries. This was $57 \%$ below the average escapement of 18,479 large fish, and below the escapement goal range of 14,000 to 28,000 large Chinook salmon.

The 2016 Chinook salmon escapement enumerated at the Little Tahltan River weir was 921 large fish and 318 nonlarge Chinook salmon. The escapement of large Chinook salmon in the Little Tahltan River was below the average of 1,366 fish and below the lower end of the Canadian escapement target range of 2,700 to 5,300 large fish. This was the tenth consecutive year that the Canadian escapement target range was not reached. The weir count was also well below the lower end of the Canadian escapement goal range of 2,700 to 5,300 large fish. This was the tenth consecutive year that the lower end of the Canadian escapement target was not reached. Preliminary analyses of radio telemetry data suggest that the escapement was not significantly affected by the 2014 Tahltan River landslide; as mentioned above, low water levels may have played a positive role in this. The Little Tahltan River weir count represented approximately $9 \%$ of the total Stikine River large Chinook salmon escapement, close to the average weir count contribution of $8 \%$ (note that this average has declined significantly in the last ten years).

At Verrett Creek, a total of 50 large Chinook salmon were counted via helicopter. The carcass pitch crew stationed at the creek from 4-10 August sampled 70 large and 42 medium Chinook salmon. The aerial count and the carcass pitch results were both below average despite good to excellent viewing / fish capture conditions.

## Coho Salmon

The annual coho salmon aerial survey was conducted on November 3 under generally favorable viewing conditions; very low water was encountered at a number of sites. However, the total count of coho salmon observed at six index sites was only 292 fish, $83 \%$ below average. The inseason weekly CPUE of coho salmon from both the lower Stikine

River Canadian fishery and sockeye salmon test fishery (incidentally caught coho salmon) were also below average. The reason for the very low survey counts is unclear.

A coho salmon drift gillnet test fishery was not conducted in 2016 due to budgetary constraints.

## Sockeye Salmon Run Reconstruction

The final postseason estimate of the terminal Stikine River sockeye salmon run was 247,892 fish. Of this number, approximately 155,331 fish were of Tahltan Lake origin (wild \& enhanced), 36,908 fish were of Tuya origin (fry from Tahltan brood stock stocked into Tuya Lake), and 55,653 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. For inriver estimates they are based on inseason and postseason otolith analysis: egg diameter stock-composition estimates for inriver harvest from the Canadian commercial, Aboriginal, ESSR, and test fishery harvests, and escapement data. The 2016 terminal run was above average and above the preseason forecast of 223,000 fish.

## TAKU RIVER

Taku River salmon are harvested in the U.S. gillnet fishery in Alaskan District 111, in the northern Southeast Alaska seine and troll fisheries, in the Juneau area sport fishery, and in the inriver personal use fishery. Canadian fisheries for Taku River salmon include a commercial gillnet fishery located in the river near the Canada/U.S. border, an AF, and a sport fishery (Figure 2).


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

## Harvest Regulations

Fishing arrangements in place as a result of Annex IV, Chapter 1 of the PST can be found at: http://www.psc.org/pubs/treaty.pdf. For salmon originating in the Canadian portion of the Taku River watershed, these arrangements include the continuation of directed fisheries for Taku River Chinook salmon stocks, first implemented in 2005; continuation of coho salmon harvest shares; and, a sockeye salmon harvest sharing arrangement based on the production of enhanced fish.

## U.S. Fisheries

The traditional District 111 commercial drift gillnet salmon fishery was open for a total of 56 days from June 19 through October 6, 2016. The harvest totaled 582 Chinook, 148,317 sockeye, 34,445 coho, 44,668 pink, and 447,616 chum salmon. Harvest of sockeye salmon was above average, while harvests of all other salmon species were below average. The traditional fishery does not include harvests from the Speel Arm SHA inside Port Snettisham.

The 2016 season was the seventeenth year of adult sockeye salmon returns to the Snettisham Hatchery inside Port Snettisham. These fish contributed to the traditional harvests in Taku Inlet and Stephens Passage, and made up nearly the entire common property harvest in the Speel Arm SHA inside Port Snettisham, which was initially opened to fishing during SW 33 to target Snettisham Hatchery sockeye salmon. This was the second year of full production for DIPAC's revitalized enhanced coho salmon program, and these fish contributed to the traditional harvests in Taku Inlet. Hatchery stocks contributed substantially to the total harvest of sockeye, chum and coho salmon and more minimally to the harvest of 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. The adjusted 2016 preseason terminal run forecast of 29,200 Taku River large Chinook salmon provided no AC for directed fisheries for either country. An inriver assessment/test fishery was conducted by Canada with a target of 1,400 large fish apportioned out over seven weeks according to average run timing. Tagging for the inriver MR project was again increased with additional effort using drifted tangle nets on both sides of the border and a second year of a purse seine feasibility study in Taku Inlet, as well as the traditional Canyon Island fish wheels. A total of 1,277 tagged fish were put out by these efforts. The first inseason terminal run estimate was delayed until SW 23 even though data was sufficient to produce an estimate by Thursday of SW 22. This first bilateral estimate, which was agreed to on June 3, projected a terminal run size of 11,600 large Chinook salmon and the week-long delay in producing the estimate resulted in an additional 250 large Chinook salmon being harvested in the assessment/test fishery. Due to the low projection, it was agreed to shift the assessment/test fishery into a non-lethal mode for SWs 24 and 25. The SW 25 inseason terminal run estimate of 14,720 Taku River large Chinook salmon set the stage for conservative openings the following week for both Canada and U.S. directed sockeye salmon fisheries. The 2016 District 111 drift gillnet Chinook salmon harvest in SWs 26-28 was 369 fish of which 53\% were large fish. Postseason GSI analysis indicates

Alaskan hatchery Chinook salmon contributed $25 \%$ of the large fish harvest, and $75 \%$ of those ( 159 fish) were of Taku River origin through SW 28. The Juneau area sport harvest of Taku River large Chinook salmon was estimated at 635 fish during the same time period based on GSI analysis. The final postseason spawning grounds MR estimate of Taku River spawning escapement is 12,381 large Chinook salmon.

The traditional District 111 sockeye salmon harvest of 148,317 fish was well above average and the highest since 2004. Weekly sockeye salmon CPUE was generally average to above average through SW 31 after which it became more than double the average through SW 36. Snettisham Hatchery sockeye salmon stocks began to contribute to the traditional fishery in SW 28 and otolith sampling occurred through SW 33 in Taku Inlet and through SW 36 in Stephens Passage. Of the total traditional District 111 sockeye salmon harvest, $72 \%$ occurred in and around Taku Inlet (average is $65 \%$ ), $16 \%$ occurred in Stephens Passage south of Circle Point (average is 26\%) and 12\% occurred in Port Snettisham (average is $10 \%$ ). 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 final postseason estimated stock composition of the harvest of sockeye salmon in the traditional District 111 fishery is 66,980 ( $51 \%$ ) wild Taku River, 6,710 (5\%) enhanced Tatsamenie, and 50,150 (38\%) Snettisham Hatchery fish.

Table 4. Taku River sockeye salmon run reconstruction, 2016. Estimates do not include spawning escapements below the U.S./Canada border.


Opportunity to target returning Snettisham Hatchery sockeye salmon inside Port Snettisham began in SW 33 and later that same week the Speel Arm SHA was opened due to significant fish movement through the Speel Lake weir and an additional large number of fish observed in the creek below the weir. In SW 33, 77\% of the total boats in District 111 fished inside Port Snettisham and the Speel Arm SHA. The Speel Arm SHA was opened until SW 38 but only received effort through SW 36.

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. 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 2016 was to pass 75,000 coho salmon above border to provide for escapement and a 5,000 fish
assessment fishery, and Canada may harvest any fish surplus to the 70,000 fish escapement goal. The 2016 preseason inriver run forecast of 127,000 Taku River coho salmon was above the average inriver run of 98,200 fish. The traditional District 111 coho salmon harvest of 34,445 fish was $87 \%$ of the 39,730 fish average. DIPAC enhanced coho salmon first appeared in the District 111 harvest in SW 36 and in SW 39 comprised $72 \%$ of the total harvest. CWT analyses indicate DIPAC enhanced coho salmon contributed 7,356 fish or $21 \%$ of the 2016 District 111 traditional 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 2016 fishery began by regulation in SW 26. 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 using the Canyon Island fish wheels as event 1 and the Canadian inriver fishery as event 2 , 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 19, Section 111-B was 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 and a never previously used area restriction that closed the west side of Taku Inlet, including the Point Bishop area, where incidences of significant Chinook salmon harvest had been observed in past seasons. Effort was a little more than half of average for this week with 29 boats fishing. The sockeye salmon harvest was $48 \%$, and the CPUE was $130 \%$ of average. The total Chinook salmon harvest was 134 fish with approximately 44 fish estimated as Taku River origin large fish based on inseason CWT analyses.

In SW 27, Section 11-B was originally opened for two days with no gear or area restrictions for Chinook salmon conservation due to nearly $99 \%$ of the Taku River Chinook salmon run historically having transited the fishery by this time. With above average sockeye salmon CPUE in the first two days and a well below average fleet size, the fishery was extended for one day for a total of three days of fishing. Forty-seven boats harvested 163 Chinook salmon of which 44 were estimated to be Taku River large fish based on inseason CWT analysis. The sockeye salmon harvest was $62 \%$ and CPUE was $100 \%$ of average. Otolith analysis showed the King Salmon Lake enhanced sockeye salmon contribution to the Taku Inlet harvest was $6 \%$. The inseason mark-recapture estimate generated midweek in SW 27 to inform the decision for the SW 28 opening projected an escapement of 63,600 Taku River sockeye salmon which is below the lower end of the goal range.

Fishing time for SW 28 was again set for two days in Section 11-B due to the low inseason projection the previous week. A six-inch minimum mesh size restriction was implemented in Stephens Passage south of Circle Point to conserve Port Snettisham wild sockeye salmon stocks transiting the area while allowing opportunity to harvest returning DIPAC enhanced chum salmon and this restriction remained in place through SW 32. With a small fleet size and above average sockeye salmon CPUE on the first day of the fishery, but some
uncertainty in the Taku River sockeye salmon run size with inseason projections only creeping up, a one day extension was announced only in Stephens Passage (south of Circle Point) with the mesh restriction remaining to provide opportunity to harvest returning enhanced chum salmon while minimizing impact on Taku River sockeye salmon. This resulted in three total days of fishing in statistical area 111-31 but only two days in 111-32 (Taku Inlet). Effort increased slightly from the previous week to 55 boats which harvested 72 Chinook salmon, 50 of which were Taku River large fish based on inseason CWT analysis. The total District 111 gillnet harvest of Taku River large Chinook salmon for the Chinook salmon accounting period SWs 18-28, is 159 fish based on postseason GSI analysis. Sockeye salmon harvest and CPUE, which had decreased dramatically on the second day in Taku Inlet, were respectively $42 \%$ and $80 \%$ of average. Otolith analysis revealed that $2 \%$ of the sockeye salmon harvest from Taku Inlet and $22 \%$ from Stephens Passage were of Snettisham Hatchery origin. The King Salmon Lake enhanced sockeye salmon contribution to the Taku Inlet harvest was $7 \%$. The midweek inseason abundance estimate that was available when the decision for the SW 29 fishery was made projected a terminal run of 152,000 wild sockeye salmon with approximately one-third of the run historically through the District 111 fishery.

Table 5. U.S. inseason forecasts of D111 terminal run size, total allowable catch, inriver run size, and the U.S. harvest of Taku River wild sockeye salmon for 2016.

| SW | Inriver <br> Run | Terminal <br> Run | Total <br> TAC | US <br> TAC | Projected $^{\text {a }}$ <br> US harvest |
| :--- | :---: | :---: | :---: | :---: | :---: |
| 27 | 16,400 | NA | NA |  | NA |
| 28 | 26,810 | 141,490 | 66,490 |  | 30,120 |
| 29 | 56,004 | 201,103 | 126,103 |  | 28,667 |
| 30 | 55,095 | 156,379 | 81,379 |  | 39,119 |
| 31 | 81,000 | 166,067 | 91,067 |  | 39,033 |
| 32 | 111,444 | 180,575 | 105,575 |  | 46,204 |
| 33 | 163,667 | 218,832 | 143,832 |  | 45,343 |
| 34 | 174,382 | 219,508 | 144,508 |  | 46,972 |
| 35 | 211,471 | 239,358 | 164,358 |  | 45,244 |
| Postseason | 167,348 | 200,739 | 193,770 |  | 68,031 |

${ }^{\text {a }}$ Forecast based on estimate including entire weeks data.
Fishing time for SW 29 was again set for two days in Section 11-B with Taku River sockeye salmon run projections improved, but still below the preseason forecast, and the uncertainty from the drop in CPUE over the course of the previous week. Sockeye salmon CPUE was below average for the two days, early Taku River sockeye salmon run projections were steadily improving, and the majority of the below average sized fleet was targeting chum salmon. A one day extension was announced in statistical area 111-32 with a six-inch minimum mesh size restriction implemented and an area restriction closing Taku Inlet north of Greely Point while a two day extension with the same mesh restriction in place was announced in 111-31, to provide opportunity on DIPAC enhanced chum salmon while minimizing sockeye salmon harvests in the area. This resulted in three total days of fishing in Taku Inlet and four total days in Stephens Passage. Effort for the week increased from the previous week to 70 boats, $60 \%$ of average. Sockeye salmon harvest and CPUE
were $37 \%$ and $38 \%$ of their respective averages. Otolith analysis revealed that $15 \%$ of the sockeye salmon harvest from Taku Inlet, and 53\% from Stephens Passage, were of Snettisham Hatchery origin. The Tatsamenie Lake enhanced sockeye salmon contribution to the Taku Inlet harvest was $1 \%$ while the King Salmon Lake enhanced sockeye salmon contribution was $2 \%$. The sockeye salmon inriver run estimate generated midweek projected an increased terminal wild run size of 201,000 fish although the cumulative fish wheel count was nearly as low as it had ever been at this point in the season.

Fishing time for SW 30 was again set for two days in Section 11-B based on variable inriver indicators and extensions were announced similar to the previous week with one extra day in 111-32 and two extra days in 111-31, for a total of three and four days respectively. The area and gear restrictions used during the previous week's extension in 111-32 were not implemented due to increased sockeye salmon CPUE observed during the first two days of the fishery. Effort increased to nearly $90 \%$ of the average with 103 boats making landings. This week had the largest effort of the season in Taku Inlet with 89 boats making landings. The sockeye salmon harvest for the entire opening was $129 \%$ of average while CPUE was $105 \%$ of average. Otolith analysis revealed that $21 \%$ of the sockeye salmon harvest from Taku Inlet, and $59 \%$ from Stephens Passage, were of Snettisham Hatchery origin. TBR enhanced sockeye salmon of Tatsamenie and King Salmon lakes origin contributed 3\% and $<1 \%$ in Taku Inlet, respectively. The weekly Taku River wild sockeye salmon terminal run projection dropped to 156,000 fish.

Fishing time for SW 31 was again set for two days in Section 11-B based on not particularly strong inriver indicators and concern over an effort increase from conservative openings in nearby gillnet areas. The same extensions as the previous week were announced for a total of three days in 111-32 and four days in 111-31. The extra time was based on increased sockeye salmon CPUE and a significant reduction in effort that continued to taper off throughout the opening. Effort dropped from the previous week to 76 boats, $75 \%$ of average for the week, and only 25 boats remained by the third day of the opening. The sockeye salmon harvest dropped to $89 \%$ of average while CPUE was $97 \%$ of average. Otolith analysis revealed that $37 \%$ of the sockeye salmon harvested in Taku Inlet and $94 \%$ of the harvest in Stephens Passage were of Snettisham Hatchery origin. TBR enhanced sockeye salmon of Tatsamenie and King Salmon lakes origin contributed $6 \%$ and $<1 \%$ to the Taku Inlet harvest, respectively. The weekly Taku River sockeye salmon run size estimate indicated 81,000 fish had passed above the border, projecting a terminal run of 166,000 wild fish.

Fishing time for SW 32 was set for three days in Section 11-B with Taku River sockeye salmon escapement being estimated within the goal range. Both Taku Inlet and Stephens Passage were extended for an additional day for a total of four days of fishing due to well above average sockeye salmon CPUE. The mesh restriction in Stephens Passage was removed for the last day of the opening due to increasing escapement of Speel Lake wild sockeye salmon through the weir and an obvious abundance of fish observed in Speel Arm. Effort declined from the previous week to 69 boats, and sockeye salmon harvest and CPUE were $287 \%$ and $298 \%$ of their respective averages. The sockeye salmon harvest this week of 47,500 fish nearly doubled the second highest weekly harvest (27,605 fish in SW 33) in
the traditional area (not including the Speel Arm SHA). Otolith analysis indicated that 38\% of the sockeye salmon harvest from Taku Inlet was of Snettisham Hatchery origin, and TBR enhanced sockeye salmon of Tatsamenie Lake origin contributed $8 \%$ of the Taku Inlet harvest which was the highest contribution of the season. Otolith samples were not obtained from Stephens Passage this week due to low effort there and mixed landings between statistical areas. The weekly Taku River wild sockeye salmon terminal run size projection increased from the previous week to 181,000 fish.

Fishing time for SW 33 was set for three days in Section 11-B and the six-inch minimum mesh size restriction south of Circle Point was removed for the season. The entrance of Port Snettisham was opened to increase opportunity on returning Snettisham Hatchery sockeye salmon with increased escapement of wild fish into Speel Lake. Nearly $80 \%$ of the effort was concentrated in and around Port Snettisham to target returning Snettisham Hatchery sockeye salmon and to be positioned for a potential opening of the Speel Arm SHA. A one day extension of the previously opened area plus nearly all of the Speel Arm SHA was announced midday on August 9 to begin at noon on August 10, due to significant movement of fish through the Speel Lake weir, and the vast majority of the fleet immediately ran into the Speel Arm SHA to claim their position, foregoing an entire day of fishing in the traditional areas of the district. Later in the week the entire Speel Arm SHA was opened until further notice. Effort was the highest of the season this week with 114 boats fishing in the traditional area (mostly the entrance of Port Snettisham and lower Stephens Passage) and this transition to above average effort would generally remain throughout the rest of the season. Sockeye salmon harvest and CPUE, excluding the Speel Arm SHA, for the last official week of sockeye salmon management were $336 \%$ and $176 \%$ of their respective averages. Otolith analysis indicated that $42 \%$ of the sockeye salmon harvest from Taku Inlet and $85 \%$ from Stephens Passage were of Snettisham Hatchery origin. TBR enhanced sockeye salmon of Tatsamenie Lake origin accounted for $6 \%$ of the Taku Inlet and $2 \%$ of the Stephens Passage harvests. This was the final week of otolith sampling from Taku Inlet but Stephens Passage would have two more weeks of minimal sampling in SWs 35 and 36. The weekly Taku River wild sockeye salmon terminal run size projection increased from the previous week to 219,000 fish.

The fall drift gillnet season in District 111 occurred over eight weeks, beginning on August 14 in SW 34, and ending on October 6 in SW 41. During this time, management in Section 11-B switches from being driven by Taku River sockeye to Taku River coho salmon abundance.

Fishing time for SW 34 was set for three days in Section 11-B with the opening delayed until Monday to accommodate the Golden North Salmon Derby taking place in Juneau area waters. The majority of effort remained in or near the Speel Arm SHA at the beginning of the opening to target returning Snettisham Hatchery sockeye salmon, but redistributed to the remainder of the district after it became apparent that there was not a large buildup of hatchery sockeye salmon in the southern portion of the district. A total of 52 boats made landings throughout the week in the traditional area which was $121 \%$ of average. The sockeye salmon harvest for the traditional fishery was $232 \%$ of average, while CPUE was $224 \%$ of average. The Speel Arm SHA remained open until further notice and 29 boats
made landings there throughout the week. The coho salmon harvest and CPUE for the traditional fishery were $77 \%$ and $71 \%$ of average, respectively. 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 89,000 fish, below the preseason forecast. The last inseason weekly Taku River wild sockeye salmon terminal run size projection increased slightly from the previous week to 219,500 fish.

Fishing time in Section 11-B for SW 35 was set for three days again with coho salmon CPUE increasing during the previous week both in District 111 and the inriver fishery and assessment projects. A total of 54 boats made landings throughout the week in the traditional area; $125 \%$ of average. The Speel Arm SHA remained open until further notice and received little effort throughout the week. Coho salmon harvest and CPUE in the traditional fishery were $99 \%$ and $90 \%$ of average, respectively. Sockeye salmon harvest was over three times the average, and although the sample size was small, otolith analysis revealed that Tatsamenie Lake enhanced sockeye salmon contributed 4\% to the Stephens Passage harvest for the week. The projected inriver run estimate for Taku River coho salmon decreased slightly from the previous week to 87,000 fish.

Section 11-B was opened for three days again in SW 36 with a below average forecast Taku River coho salmon run estimate instigating a below average opening time. A total of 43 boats, $96 \%$ of average, made landings in the traditional fishery with coho salmon harvest and CPUE at $89 \%$ and $110 \%$ of average, respectively. CWT analysis indicated that $55 \%$ of the traditional coho salmon harvest was comprised of Alaska hatchery fish, resulting in the largest weekly hatchery coho salmon harvest of the season in District 111. The Speel Arm SHA remained open until further notice and received very little effort throughout the week. The weekly Taku River coho salmon inriver run projection dropped slightly once again to 84,000 fish. The last week of otolith sampling (with a minimal sample size) in Stephens Passage showed that $5 \%$ of the sockeye salmon harvest was composed of enhanced fish of Tatsamenie Lake origin, the highest weekly percentage of the season there.

Fishing time in SW 37 was again set for three days in Section 11-B due to some uncertainty in the Taku River coho salmon run, but consistent weekly projections continued to align with the US passing 75,000 fish above border. The Speel Arm SHA remained open until further notice and received no effort throughout the week. Effort fell to 34 boats or $91 \%$ of average and shifted almost entirely to Taku Inlet with only four boats making landings in Stephens Passage. The coho salmon harvest was $72 \%$ of average while CPUE was $106 \%$ of average. CWT analysis indicated that $26 \%$ of the coho salmon harvest was comprised of Alaska hatchery fish. The weekly Taku River coho salmon inriver run projection rose slightly to 85,000 fish.

Fishing time in SW 38 was set for four days in Section 11-B due to a below average to average sized fleet, relatively high hatchery contribution, and an increasing run size projection. The Speel Arm SHA was open concurrently with Section 11-B, again attracted no effort, and closed for the season this week. Effort fell from the previous week to 27 boats, just slightly above average, with the coho salmon harvest $67 \%$ of average while CPUE was $73 \%$ of average. CWT analysis indicated that Alaska hatchery fish contributed
$24 \%$ to the weekly coho salmon harvest. The weekly Taku River coho salmon inriver run projection fell to 83,000 fish.

Fishing time in Section 11-B was again set for four days in SWs 39, 40, and 41. The Taku River coho salmon inriver run projection remained very consistent over the entire coho management time period and climbed up to 92,000 fish in SW 40. The fleet size remained above average with 15,10 , and 1 boat fishing in SWs 39, 40, and 41, respectively. Coho salmon harvest and CPUE were slightly below average in SW 39, but well above average in both SW 40 and 41. Over 1,500 Alaska hatchery coho salmon were harvested in these three final openings which was $56 \%$ of the total harvest. The season ended at noon on Thursday, October 6.

The District 111 fall chum salmon harvest in SWs 34-41 was $45 \%$ of 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 2016 fish wheel catch of 66 chum salmon (Fish Wheel 1 and 2 only) was $25 \%$ of average and the lowest fish wheel chum salmon catch since the project began.

The District 111 traditional drift gillnet pink salmon harvest of 44,700 fish was $29 \%$ of average and the second lowest in the last 20 years. The escapement number to the Taku River is unknown; however the number of pink salmon caught by the fish wheels at Canyon Island can be used as an index of escapement. The total of 1,369 pink salmon caught in the fish wheels (Fish Wheel 1 and 2 only) was $56 \%$ of the 2014 parent-year and $13 \%$ of the 1996 to 2014 even-year average, not to mention the lowest fish wheel pink salmon catch since the project began.

Several other fisheries in the Juneau area harvested transboundary Taku River salmon stocks in 2016. A number of 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 from the Taku River. Of the Chinook salmon harvested in the sport fishery, 635 fish were estimated to be of Taku River origin through SW 28 based on postseason GSI analysis. Personal use permits were used to harvest an estimated 1,200 Taku River sockeye salmon along with an estimated incidental harvest of 30 Taku River large Chinook salmon. The District 111 Amalga Harbor SHA common property purse seine fishery, northwest of Juneau, was conducted for the fifth consecutive season to target returning DIPAC enhanced summer chum salmon. There were three total openings in 2016, occurring on Thursdays in July, each lasting six 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. DIPAC conducted GSI analysis of the 2013 and 2014 harvest with samples averaging 35\% Taku River origin. No GSI analysis was conducted in 2016. Incidental sockeye salmon harvest in the Amalga Harbor purse seine fishery was 2,684 fish. Otolith analysis indicated that $48 \%$ were enhanced fish of DIPAC origin, and 3\% were enhanced fish of TBR origin.

## Canadian Fisheries

The Taku River commercial fishery harvest was 508 large Chinook (greater than 660 mm MEF, mostly 3-ocean or older), 195 nonlarge Chinook, 37,120 sockeye, and 9,466 coho salmon in 2016. Sockeye salmon originating from Taku fry plants contributed an estimated 4,007 fish to the catch, comprising $10.7 \%$ of the total commercial sockeye salmon harvest. The catch of large Chinook salmon was below the average and nonlarge Chinook salmon was below average as well. In 2005, as a result of the new Chinook salmon agreement which allows directed Chinook salmon fishing if abundance warrants, catch accounting for nonlarge salmon was revised from a commercial weight-based designation (previously referred to "jacks" which were typically fish under 2.5 kg or 5 kg , depending on where they were being marketed), to a length-based designation ("nonlarge" Chinook salmon i.e. less than 660 mm in length MEF). Hence, comparisons with catches prior to 2005 should be viewed accordingly. The catch of sockeye salmon was above average (third highest recorded) and the coho salmon catch was average. There were 70 days of fishing; above average. The seasonal fishing effort of 354 boat-days was below average. As is typical, both set and drift gillnets were used, with the majority of the catch taken in drift gillnets. No Chinook salmon were harvested in a directed Chinook salmon fishery but were caught as bycatch in the sockeye and coho salmon fisheries. The maximum allowable mesh size was 20.4 cm ( 8.0 inches) except for the period of June 19 to July 16, at which time it was reduced to 14.0 cm ( 5.5 inches) to minimize the incidental catch of Chinook salmon.

In addition to the commercial fishery catches, 101 Chinook, 191 sockeye, and 47 coho salmon were harvested in the Aboriginal fishery. All but 50 of the Chinook salmon were harvested in the commercial fishing area on the lower river with the remainder from the Nakina River. Based on commercial catch data, it is estimated that 91 of the Chinook salmon caught on the lower river were large and 10 were nonlarge; the Nakina River catch is assumed to have been large fish only. On average, 138 Chinook, 145 sockeye and 160 coho salmon are harvested annually in the Aboriginal fishery.

A test fishery to capture coho salmon for stock assessment purposes took place starting September 11 through October 8 (SWs 38-41). The fishery landed 2,007 coho and 122 sockeye salmon.

Complete recreational harvest figures are not available, but it is estimated that about 10 large Chinook salmon were retained in this fishery. Due to the poor inseason projections of large Chinook salmon, retention was not permitted after June $18^{\text {th }}$ therefore, it is believed that the harvest was not very significant. The catches of other salmon species are thought to have been negligible.

The bilateral preseason forecast for the Taku River Chinook salmon terminal run was 29,200 large fish, well below average run size of 31,607 fish. The forecast generated by the Taku River Chinook salmon model produced a terminal run size estimate of 32,600 fish. However, due to consistent overestimation in recent years, this preseason forecast was reduced by $12 \%$ reflecting forecast performance for the past 5 -years. An additional consideration for reducing the model produced forecast was the general poor performance of Chinook salmon stocks in recent years throughout northern British Columbia and Alaska.

At a run size of this magnitude, factoring in the revised interim MSY escapement point target of 25,500 fish, there was no AC for either the U.S. or Canada based on the preseason forecast.

Table 6. Weekly large Chinook salmon guideline harvest for the Canadian assessment fishery in the Taku River for 2016.

| SW | Start Date | Assessment Harvest | Directed Harvest | Preseason <br> Guideline |
| :---: | :---: | :---: | :---: | :---: |
| 19 | 1-May | 119 |  | 150 |
| 20 | 8-May | 208 |  | 280 |
| 21 | 15-May | 201 |  | 320 |
| 22 | 22-May | 242 | 170 |  |
| 23 | 29-May | 251 | 180 |  |
| 24 | 5-Jun | Suspended |  | 160 |
| 25 | 12-Jun | Suspended |  | 140 |
| Total |  | 1,021 | 0 | 1,400 |

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 typically 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 2016, the assessment fishery was conducted using a target of 1,400 fish as specified in the agreement.

The 2016 management plan indicated that the Chinook salmon assessment (test) fishery was scheduled to open at noon Sunday, May 4. Weekly fishing periods would be set with the intention of achieving assessment targets. The harvest would be spread over 3 openings, to a maximum of 4 . Shortfalls/overages would be apportioned over the remaining weeks of the assessment fishery. Mesh sizes would be restricted to between 100 mm ( 4 inches) and 204 mm ( 8 inches) and net length would be up to 36.6 m ( 120 ft .). Use of set nets was prohibited during the assessment fishery and fishers were restricted to a total of one drift net. If reliable inseason run projections were greater than 31,900 large Chinook salmon, a directed Canadian commercial fishery may be considered (provided the weekly guideline exceeded the test fishery target) in accordance with weekly projections of terminal run size and guideline harvests. The Canadian catch would be managed with the objective of meeting escapement and agreed Canada/U.S. and domestic harvest sharing provisions. In the event that reliable run projections (i.e. estimates made after SW 21) fell below an escapement of 16,150 fish, suspension of the assessment fishery would be considered.

The Chinook salmon assessment fishery opened on May 4 (SW 19) for an initial 6 hour period with a weekly catch guideline of 150 fish. The fishery was extended for an additional two periods of 14 and 4 hours respectively. The fishery ended for the week after the third opening with a total catch of 119 large Chinook salmon. There were 4 licenses present and
the CPUE averaged 30 fish per boat day (fbd) which was near average ( 34 fbd ) for SW 19. Water levels were above average and rose sharply through the fishing period.

The initial opening for SW 20 was set for 10 hours beginning on May 9 and an additional two periods were added ( 20 and 24 hours respectively). The weekly guideline harvest was 280 large Chinook salmon. Four to five licenses fished and caught a total of 208 fish. The weekly average CPUE was 21 fbd which was half of average ( 40 fbd ) despite stable to dropping water levels.

The assessment fishery opened for 20 hours on May 15 to start SW 21. Two additional fishing periods of 20 hours were added plus a final period of 24 hours. The weekly guideline harvest was set at approximately 320 pieces and up to four licenses fished catching a total of 201 large Chinook salmon. The combined weekly CPUE was 21 fish per boat day, below the average of 30 fbd . The water level was above average and rose steadily during the fishing period.

For SW 22, the assessment fishery opened for 24 hours on May 22. Two additional fishing periods of 20 and 10 hours were added. The weekly guideline harvest was set at approximately 170 pieces and up to five licenses fished catching a total of 242 large Chinook salmon. The combined weekly CPUE was 23 fish per boat day, well below the average of 41 fbd . The water level peaked and dropped during the weekly fishing period. To date, a bilateral inseason estimate had not been generated.

The initial opening for SW 23 was set at 20 hours with a weekly target of approximately 180 large Chinook salmon. Two additional openings of 5 hours each were added. Catch rates improved to 43 fbd but remained below average. Up to five licenses fished catching 251 large Chinook salmon. Water levels were below average throughout the fishing period. A joint terminal run estimate made after the weekly fishing period suggested an escapement well below the target and the decision was made to suspend the assessment fishery.

The assessment fishery catches noted in Table 7 total 1,021 large Chinook salmon. The Chinook salmon bycatch in the sockeye and coho salmon fishery was 508 large fish (no directed Chinook salmon harvest for 2016); adding the Aboriginal fishery catch of 91 and an assumed recreational harvest of 10 fish, the actual BLC was 609 large Chinook salmon, $41 \%$ of Canada's BLC. Efforts to minimize commercial bycatch included mesh size restrictions in the first four weeks of the sockeye salmon fishery and a one day opening in SW 26. Additionally, low effort throughout the sockeye salmon season helped to reduce incidental Chinook salmon harvest.

Table 7. Forecasts of terminal run size, allowable catch (AC), weekly guidelines, and actual catch of Taku River large Chinook salmon, 2016.

|  |  |  |  | Weekly <br> Guideline / <br> Assessment | Actual |
| :--- | :---: | :---: | :---: | :---: | :---: |
| SW | Terminal | Run | AC* | AC reduced by <br> Target | Harvest |
| 19 | 29,200 | 0 | 0 | 150 | 119 |
| 20 | 29,200 | 0 | 0 | 280 | 208 |
| 21 | 29,200 | 0 | 0 | 320 | 201 |
| 22 | 29,200 | 0 | 0 | 170 | 242 |
| 23 | 11,588 | 0 | 0 | 180 | 251 |
| 24 |  | 0 | 0 | 160 | Suspended |
| 25 | 14,720 | 0 | 0 | 140 | Suspended |
| Total |  |  |  | 1,400 | 1,021 |

*: No directed Chinook salmon fishery in 2016.
As per normal procedures, weekly fisheries for sockeye and coho salmon opened at noon Sunday. 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 m ( 120 ft .); mesh sizes were restricted to between 100 mm ( 4 inches) and 204 mm ( 8 inches) except for the period from June 19 (SW 26) through July 16 (SW 29) when the maximum permissible was 14.0 cm ( 5.5 inches) in order to reduce the bycatch of Chinook salmon.

The preseason forecast for wild Taku sockeye salmon was based on stock recruitment and sibling analyses, and projected a run of 200,000 fish, above the average run size of 172,000 fish. Approximately 10,300 enhanced fish from Tatsamenie Lake were forecasted, above the average Tatsamenie enhanced run size of 7,600 fish. Based on the treaty arrangement, an enhanced run of $5,001-15,000$ fish provides 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 200,000 resulted in an overall TAC of 125,000 fish; $21 \%$ of that was approximately 26,000 fish.

The forecast for the run of wild Tatsamenie fish was 25,500 fish, above the average of approximately 8,700 fish. The egg-take goal for the 2016 season was based on a target of $30 \%$ of the escapement up to a maximum of 2.0 million eggs. During SWs 31-33 (July 24August 13), 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.

The following summarizes the fishery management on a weekly basis and generally captures catch estimates and stock assessment information made inseason. Sockeye salmon catches 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. Weekly enhanced contributions to the overall catch are based on calculations made inseason. Guidelines identified in Table. 8 were set using a 21:79 harvest split up to SW 31 and 23:77 thereafter.

The management plan indicated that the sockeye salmon fishery would be restricted to a 24 hrs period in SW 26 (June 19-25) due to the poor returns observed at Kuthai Lake over the past 10 years. Additionally, modifications could be made based on Chinook salmon escapement concerns. The weekly guideline based on the preseason forecast was 1,584 wild fish (Table 8). Weekly effort included five licenses, below average, and the CPUE of 90 fbd was above the weekly average of 53 . Water levels were below average and stable. The fishery was held at one day, resulting in a weekly catch of 432 sockeye salmon and 106 large Chinook salmon. A joint large Chinook salmon estimate generated after the week suggested the terminal run was approximately 13,900 fish.

Statistical week 27 (June 26-July 02) was opened on two days. The weekly guideline harvest for the week, based on the preseason forecast, was 1,586 sockeye salmon. Seven licenses fished on day 1 ; the CPUE of 111 fbd was well above the weekly average of 52 . As a result, the fishery was extended to three days and the remainder of the week saw catch rates well above average. Water levels remained below average for the fishing period. Weekly catch totals were 1,933 wild sockeye salmon ( 74 enhanced King Salmon sockeye) and 185 large Chinook salmon. The terminal run projection after the final day of fishing was 117,882 fish, well below the preseason forecast.

Table 8. Canadian inseason forecasts of terminal run size, total allowable catch (TAC), and spawning escapement of wild Taku sockeye salmon, 2016.

|  | Terminal |  | Projected | Canadian | Weekly | Surplus | Actual |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| SW | Run | TAC | Escapement | AC | Guideline | AC* | Catch |
| 26 | 200,000 | 125,000 | 75,000 | 26,000 | 1,584 | 0 | 432 |
| 27 | 200,000 | 125,000 | 75,000 | 26,000 | 1,586 | 0 | 1,933 |
| 28 | 117,882 | 42,882 | 86,127 | 9,005 | 643 | 0 | 2,482 |
| 29 | 142,221 | 67,221 | 95,915 | 14,116 | 1,460 | 0 | 3,324 |
| 30 | 219,825 | 144,825 | 163,235 | 30,413 | 3,570 | 0 | 1,396 |
| 31 | 160,841 | 85,841 | 108,555 | 18,027 | 2,732 | 0 | 3,394 |
| 32 | 182,622 | 107,622 | 120,119 | 22,601 | 3,790 | 0 | 4,990 |
| 33 | 164,959 | 89,959 | 103,086 | 20,691 | 2,332 | 5,928 | 5,490 |

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.

Statistical week 28 (July 03-09) was opened again on two days. The weekly guideline was set at 643 sockeye salmon. Day 1 CPUE ( 130 fbd ) was well above the weekly average of 57 fbd and an additional 24 hours was added. The weekly catch was 2,482 sockeye salmon
(plus 382 enhanced King Salmon sockeye), bringing the cumulative to 4,847 fish, above the cumulative guideline of 3,813 fish. A total of 115 large Chinook salmon was also caught. Weekly licenses fishing averaged seven, and the water remained stable and below average during the fishing period. The weekly sockeye salmon CPUE held at 130 fbd . The run projection made after the close of the fishery was 142,221 fish, up from the SW 27 estimate.

Using the previous week's projection, the weekly guideline for SW 29 (July 10-16) was 1,460 sockeye salmon. An opening of two days was posted based on the lower than average number of licenses fishing and the catch rates observed the previous week. The opening was characterized by rising but below average water levels. The catch rate for the first day of the fishery was 186 fbd versus an average of 74 fbd for this period. The fishery was extended another 24 hours based on the strong catch rates. The weekly catch was 3,324 sockeye salmon (plus 137 enhanced King Salmon and Tatsamenie sockeye). The number of licenses fishing for the week held at seven. A run projection of 219,825 fish, made after the end of the fishery, was well above the estimates generated in SWs 27-28.

Statistical week 30 (July 17-23) was opened on three days due to improving run outlooks. The weekly guideline was set at 3,570 sockeye salmon. The allowable maximum mesh size was increased from 14.0 mm ( 5.5 inches) to 204 mm ( 8 inches) as the Chinook salmon run was essentially complete. River levels were slightly above average to start the week and rose slightly during the fishing period. The weekly CPUE ( 70 fbd ) was well below average ( 107 fbd ), this coupled with run projections below the previous week meant that additional fishing time was not warranted. The weekly catch was 1,396 wild sockeye salmon and 77 enhanced fish. The cumulative sockeye salmon catch after week 30 was 9,566 wild fish, above the guideline of 8,463 fish. The licenses fished for the week was seven. After day 3 of the fishery, a run projection of 160,841 fish was made which was well below the SW 29 estimate.

For SW 31 (July 24-30), the weekly guideline was set at 2,732 sockeye salmon based on run outlook from SW 30. The initial opening was three days with a view that an above average projected Tatsamenie run should be contributing significantly. A run projection made after day 2 suggested the run size was below that of SW 30 and no further fishing time was added. Conversely, the weekly catch rate ( 176 fbd ) was well above average (116 fbd) indicating that the run was better than projected. The weekly catch was 3,394 wild sockeye salmon and 251 enhanced Tatsamenie fish. Seven licenses fished and the river level was above average and dropping through the opening. The final weekly run projection was 182,622 much improved from the previous week.

Statistical week 32 (July 31-August 06) opened for three days. The weekly guideline was 3,790 fish based on the final run projection in SW 31. For both day 1 and 2, catch rates were well above average and in light of this, an additional 24 hour period was added. The weekly CPUE was 196 fbd (versus an average of 113 fbd ) for $7-8$ licenses; fishing conditions were favourable as water levels were below average. The weekly catch was 4,990 wild and 679 enhanced sockeye salmon. The weekly terminal run projection of

164,959 did not suggest that the run was improving despite some of the highest commercial catch rates recorded for SW 32.

Statistical week 33 (August 07-13) started with a weekly guideline harvest of 2,332 fish. With the drop in the run projection, the fishery was opened on two days only. River levels were near average for the fishing period. The fishery was extended for an additional 48 hours due to extremely good catch rates in the fishery ( 220 fbd versus average 73 fbd ). Weekly licenses fished averaged seven. A total of 5,490 wild sockeye salmon and 864 enhanced Tatsamenie fish were caught.

This marked the end of the directed sockeye salmon fishery. The run projection after SW 33 improved to 202,116 wild fish, at the preseason forecast; the cumulative weekly inseason guideline was 25,876 fish at a $23 \%$ harvest share. The actual harvest of wild fish was 23,441 fish. The escapement projection was 125,928 wild fish, well above the goal range of 71,000 to 80,000 fish.

Adding the wild sockeye salmon taken in the directed coho salmon fishery (9,826 fish) brought the total commercial harvest to 33,267 wild fish. The inseason catch estimate of enhanced Taku sockeye salmon was 4,007 which included 646 fish from King Salmon Lake and 3,361 fish from Tatsamenie Lake. A small number of Stikine and US domestic enhanced origin fish were also harvested.

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

The forecast for the total run of Taku River coho salmon in 2016 was 202,000 fish. This forecast was generated using the relationship between the CPUE in smolt tagging and the total run estimates seen over the past nineteen years. The average total run of Taku River coho salmon is approximately 175,000 fish. Assuming average U.S. exploitation rates, this translated to an inriver run of approximately 127,000 fish. 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 week 34 for assessment purposes. Canada was also permitted to harvest all coho salmon in excess of 70,000 plus the fish allocated for assessment purposes. Approximately 2,000 coho salmon would be set aside for a test fishery to be conducted as commercial effort dissipated.

Statistical week 34 (August 14-20) was opened on three days based on the above forecast. The weekly guideline harvest was set at 5,900 coho salmon (projected $\sim 57,000$ surpluses to escapement target). Catch rates for the week were below average ( 21 fbd versus 62 fbd ) but sockeye salmon catches were at all-time highs for this time of the year. In light of the good sockeye salmon catches, the fishery was extended for two days. Fishing conditions were less than favourable with increasing water levels and the number of licenses was above average ( $\sim 8$ licenses versus 6 ). A total of 813 coho salmon were landed plus 5,212 sockeye salmon (including 705 enhanced Tatsamenie fish). The MR estimate after day 3
indicated that 20,888 fish had crossed the border; this projected to 89,047 fish, well below the preseason forecast but still provided Canada with harvest opportunity.

Statistical week 35 (August 21-27) was opened on three days with a guideline harvest of approximately 2,000 fish. Coho salmon catch rates for the week were below average (44 fbd versus 67 fbd ), but sockeye salmon CPUE was the highest on record for the week. An additional 24 hours was added to provide more opportunity to capitalize on the extremely good return of Tatsamenie sockeye. A coho salmon run projection made after day 3 ( 87,224 fish) was near the SW 34 projection. Water levels were near average, and seven licenses fished for the week. A total of 1,238 coho salmon and 3,538 sockeye salmon were caught (including 479 enhanced fish).

Statistical week 36 (August 28-September 03) was opened on three days again with a guideline harvest of approximately 2,000 fish. Coho salmon catch rates for the week had improved to average ( 71 fbd versus 70 fbd ), and sockeye salmon continued with good catch rates for the time of the year ( 75 fbd versus 17 fbd ). An additional 48 hours was added in light of the improved coho catches and reduced effort. A coho salmon run projection made after day 3 ( 83,669 fish) was slightly below the previous week's estimate. Water levels were above average to start but dropped steadily through the fishing period. Between five and seven licenses fished for the week. A total of 2,072 coho salmon and 2,179 sockeye salmon were caught (including 295 enhanced fish).

Statistical week 37 (September 04-10) was opened on three days with a guideline harvest of approximately 1,800 fish. Coho salmon catch rates were above average ( 53 fbd versus 42 fbd ), and sockeye salmon catches had finally begun to diminish. An additional 48 hours was added due to the good coho catch rates and the shrinking number of licenses. A coho salmon run projection made after day 3 ( 85,483 fish) was similar to estimates produced to date. Between three and seven licenses fished for the week. A total of 1,424 coho salmon and 497 sockeye salmon were caught (including 67 enhanced fish).

From SW 38 to 41 (September 11-October 08), one to two licenses fished opportunistically. Weekly openings ranged from five to seven days in duration. A total of 1,936 coho salmon were caught during the final weeks of the season. No further commercial fishing time was allocated.

Escapement

## Sockeye Salmon

Spawning escapement of sockeye salmon into the Canadian portion of the Taku River drainage is estimated from the joint Canada/U.S. MR program. Counting weirs operated by DFO at Little Trapper and Tatsamenie lakes and by the TRTFN at Kuthai and King Salmon lakes provide some information on the distribution and abundance of discrete spawning stocks within the watershed.

The sockeye salmon MR program has been operated annually since 1984 to estimate the above border run size, spawning escapement is then estimated by subtracting the inriver
harvest. The final postseason estimate of above border run in 2016 is 213,851 fish; subtracting the inriver harvest of 37,434 fish ( 37,120 commercial, 191 Aboriginal, and 123 assessment/test fish) indicates that 176,417 sockeye salmon reached the spawning grounds. Using otolith thermal mark data from Tatsamenie Lake broodstock, it is estimated that 5,768 of Tatsamenie Lake escapement were enhanced fish. Using an overall harvest rate of $18 \%$ it was estimated that 3,026 of King Salmon Lake escapement were enhanced fish. The wild spawning escapement was above average, and above the interim escapement goal range of 71,000 to 80,000 wild sockeye salmon. The traditional Canyon Island fish wheel catch of 4,942 sockeye salmon was average.

The sockeye salmon count through the Kuthai Lake weir was 1,476 fish. An aerial survey did not take place in 2016. The 2016 count was $72 \%$ above the average of 857 fish and $82 \%$ above the primary brood year (2011) escapement estimate of 811 fish.

The King Salmon Lake weir count of 6,404 fish was well above the average of 1,764 fish and the primary brood year (2011) escapement estimate of 2,899 fish.

The Little Trapper Lake weir count was 7,771 sockeye salmon, $93 \%$ of the average of 8,367 fish and almost double the 2011 primary brood year count of 3,809 fish. Run timing was about average, with the peak occurring on August 7. There were 177 removals for artificial spawning.

The Tatsamenie Lake weir count of 32,934 sockeye salmon was a record year well above the average of 8,556 fish and the 2011 primary brood year count of 7,880 fish. The run was about one week late with the midpoint occurring approximately September 5. Based on thermal mark data noted above, 6,044 fish or $18 \%$ of the weir count was enhanced. There were a total of 1,500 removals which included: 1,046 for broodstock, 40 mortalities, and 414 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. Tag application took place from April 28 through August 19 using fish wheels and drift gillnets to capture fish. The fish wheels were located at Canyon Island and drift gillnets were used in the lower river from the Wright River just downstream of the U.S./Canada border. Catches in the drift gillnet accounted for $75 \%$ of the tags applied. Tag recovery effort consisted of assessment/test or commercial fisheries from May 4 through May 31 (SW's 19-23), as well as the sockeye and coho salmon commercial fisheries (SW's 26-35). In addition, there was spawning ground sampling in July through September on the Nakina, Tatsatua, Kowatua, Nahlin, and Dudidontu rivers, as well as on Tseta Creek. Lower river assessment/test and commercial data was used to give an inriver run estimate of 14,011 large Chinook salmon resulting in an escapement estimate of 12,381 fish after accounting for inriver harvest.

Aerial surveys of large Chinook salmon to the five escapement index areas were as follows: Nakina 800 fish (below average); Kowatua 303 fish (below average); Tatsamenie 92 fish
(below average); Dudidontu 156 fish (below average); and Nahlin 379 fish (below average). Viewing conditions were good to excellent for all surveys and the total peak count of 1,730 large Chinook salmon which expands to 8,996 large fish using an expansion factor of 5.2. The count of 1,730 large Chinook salmon was the lowest observed since standardized surveys began in the early 1970s.

The carcass weir on the Tatsatua River operated to obtain tag and age, sex, and length data. A total of 198 large Chinook salmon were encountered, either on the weir or through supplemental angling, and this was below average. Comparisons between years should be made cautiously as water levels, effort and fish distribution can have a significant effect on the numbers of fish observed.

## 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 June 29 (SW 27) until October 1 (SW 40) and recovery occurred until October 8 (SW 41). The tag recovery effort consisted of the commercial fishery followed by a four week test fishery which commenced September 11 (SW 38) and caught approximately 500 fish per week. The final postseason inriver MR estimate is 99,224 fish. Taking into account the inriver harvest of 11,520 fish ( 9,466 commercial, 47 Aboriginal, and 2,007 assessment/test fish) the spawning escapement estimate was 87,704 fish. This was $96 \%$ of the average escapement ( 91,669 fish) and above the 2016 escapement objective of 70,000 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 3,207 pink salmon were captured in the fish wheels in 2016; this was well below the average ( 11,189 fish).

## 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 81 chum salmon were captured in the wheels in 2016, which was below average.

## Sockeye Salmon Run Reconstruction

An estimated 66,980 wild and 6,710 enhanced Taku sockeye salmon were harvested in the traditional U.S. District 111 drift gillnet fishery. This estimate was made by using GSI and otolith analysis. An additional 1,051 wild and 133 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 68,031 wild and 6,843 enhanced fish (Table 5).

In the Canadian commercial fishery, the final postseason harvest estimate of Taku sockeye salmon is 33,112 wild, 3,361 enhanced Tatsamenie Lake, and 646 enhanced King Salmon Lake fish. Also harvested was 57 from the Stikine, and 124 fish from U.S. domestic stocks; total Canadian commercial harvest was 37,301 ( 37,120 Taku fish and 181 non-Taku enhanced fish). An estimated 170 wild and 21 enhanced sockeye salmon were taken in the Canadian Aboriginal fishery. Therefore, the estimated Canadian treaty harvest of Taku sockeye salmon is 33,282 wild and 4,029 enhanced fish (Table 5). The test fisheries harvested 123 fish.

The final postseason estimate of the above border run size of sockeye salmon, based on the joint Canada/U.S. MR program, is 213,851 fish. Deducting the Canadian inriver harvest noted above from the above border run estimate results in an estimated escapement of 176,417 sockeye salmon; 167,348 wild fish. The escapement of Taku River sockeye salmon originating from the fry planting program was estimated to be 6,044 fish from brood stock otoliths collected at Tatsamenie Lake and an estimated 3,023 fish from King Salmon. The terminal run of Taku River sockeye salmon is estimated at 288,725 fish; 268,770 wild and 19,955 enhanced fish. Based on the escapement goal of 75,000 wild fish, the wild AC was 193,770 fish and combining wild and enhanced terminal run the TAC was 213,725 sockeye salmon. The harvest sharing agreement based on total terminal enhanced run was $77 \%$ U.S. and $23 \%$ 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). The principle escapementmonitoring tool for Chinook and sockeye salmon stocks on the Alsek River is the Klukshu weir, operated by the DFO in cooperation with the Champagne-Aishihik First Nation (CAFN). The weir has been in operation since 1976. To make the management objectives of Chinook and sockeye salmon better defined in terms of Klukshu stocks, the revised goals expressed in terms of Klukshu escapements, were used in 2016. Mark-recapture programs to estimate the total inriver abundance and the fraction of the escapement contributed by the Klukshu stocks were in operation since 1997 for Chinook salmon and since 2000 for sockeye salmon. These however were discontinued in 2005. Currently, total Alsek River run estimates for Chinook salmon are generated by expanding the total Klukshu River run by a factor of 4.0; sockeye salmon are generated using GSI analysis and the expansion of the Klukshu River weir counts.


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

## Preseason Forecasts

The Klukshu River Chinook salmon escapements in 2010 and 2011 were 2,259 and 1,610 fish, respectively. For comparison, the average is approximately 1,200 Chinook salmon. Based on the primary brood year escapements, the production outlook for 2016 was 1,900 fish (reduced by $26 \%$ to account for forecast error) Klukshu River Chinook salmon, above the average of approximately 1,400 fish and above the revised escapement goal range.

The 2016 Alsek River sockeye salmon run was expected to be approximately 83,000 fish; this was above the average run size estimate of approximately 68,000 sockeye salmon. The outlook for 2016 was based on a predicted run of 19,000 Klukshu River sockeye salmon
derived from the latest Klukshu River stock-recruitment data (2011 Eggers et al.) and an assumed Klukshu River contribution to the total run of $23 \%$, which was based on MR results (2000-2004) and run size estimates using GSI (2005-2006, 2011). Principal contributing brood years were 2011 (Klukshu River escapement of 20,800 sockeye salmon) and 2012 (Klukshu River escapement of 17,200 sockeye salmon); the average Klukshu River sockeye salmon escapement was approximately 11,400 fish. Based on the current stock-recruitment analysis, the range of Klukshu River escapements that appears most likely to produce optimum yields is 7,500 to 11,000 sockeye salmon.

The Klukshu River early sockeye salmon run counts in 2011 and 2012 were 5,635 and 5,969 fish, respectively. The average count was approximately 2,700 sockeye salmon which is above the minimum management target of 1,500 fish used by DFO. The early run to the weir was expected to be above this level in 2016.

The coho salmon partial escapement estimates at the Klukshu River weir in 2012 (1,270 fish) and 2013 ( 7,320 fish) suggested the run in 2016 would be above average. The recent average weir count was approximately 2,100 coho salmon.

## U.S. Fisheries

Preseason expectations were for above average runs for both sockeye and Chinook salmon. These projections were based on parent-year escapements to the Klukshu River. In 2016, the Alsek River recorded a below average run for sockeye salmon and the lower bound of Klukshu River escapement goal range was attained. Chinook salmon runs were also below average in 2016, and the escapement goal as measured at the Klukshu River was not achieved.

In 2016 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. The Alsek River commercial fishery opened on June 5 for one day. Chinook and sockeye salmon harvests were both below average. Eleven permits harvested 28 Chinook and 136 sockeye salmon during the first opening. Peak sockeye salmon harvest occurred during SW 28 with 12 permits harvesting nearly 1,200 fish. Effort started to decline by SW 33 and by SW 35 coho salmon management strategies were in place. Coho salmon are targeted starting in mid-August and effort becomes minimal. Fishing times remained at three days per week in SW 35 and SW 36. As fishing effort continued to drop, fishing times increased and by SW42 fishing was opened 7 days a week in SW 42 and SW 43. The river was not fished the last five out of six weeks of the season. The commercial fishing season closed on October 28.

The 2016 Dry Bay commercial set gillnet fishery harvested 132 Chinook, 6,709 sockeye, and 655 coho salmon (Table 9). The chum salmon harvest was negligible and no pink salmon were 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 absence of a harvest monitor position in 2016, catches from the food fishery were estimated based on fishery performance data compared with the weir counts. The harvest estimate for 2016 was comprised of the fish taken from the Klukshu River weir (elders only) and an estimate of catches above/below the weir (based on the past relationship with the weir count and harvest). An estimated 10 Chinook, 815 sockeye, and no coho salmon were harvested in the food fishery. The recent average catches are 60 Chinook, 1,159 sockeye, and 4 coho salmon.

Catch estimates for the Tatshenshini River recreational fishery were an estimated 70 Chinook salmon retained (no estimate of fish released), and no sockeye salmon were retained (no estimate of fish released). There were no recorded coho salmon caught although this is considered incomplete as fishing may have taken place after monitoring had ceased. These catches were all below average for Chinook and sockeye salmon.

Management of salmon in Yukon is a shared responsibility between DFO and the Salmon Sub-Committee (SSC). The SSC 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 SSC. 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 9. Final estimates of harvest and Klukshu index escapement data for Alsek River Chinook and sockeye salmon for 2016.

|  | Chinook | Sockeye |
| :--- | ---: | ---: |
| Klukshu River |  |  |
| Weir count | 651 | 7,584 |
| Harvest below/at/above weir | 5 | 193 |
| Escapement | 646 | 7,391 |


| Harvest ${ }^{\text {b }}$ |  |  |
| :--- | ---: | ---: |
| $\quad$ U.S. Commercial | 132 | 6,709 |
| U.S. Subsistence/P.U. | 8 | 105 |
| U.S. Test | 10 | 815 |
| Canadian Aboriginal | 70 | 0 |
| Canadian Recreational |  |  |
| Alsek River | 2,604 | 59,651 |
| $\quad$ Above border run | 2,744 | 66,465 |
| $\quad$ Total inriver run |  |  |
| <Above border run above + U.S. harvest> |  | 58,836 |
| Total escapement 2,524 58 <br> <Above border run above - U.S. harvest>   |  |  |

The 2016 Alsek-Tatshenshini management plan, adopted by CAFN, SSC, and DFO, was based on the escapement objectives described in the Harvest Regulations \& Management Objectives section above. For Chinook and early run sockeye salmon management, the status of the Klukshu weir counts was reviewed about July 18 to ensure weir and spawning escapement targets were on track. The status of the late run sockeye salmon was also reviewed in the first week of September. Adjustments to inseason fishing regimes in the Aboriginal fishery in 2016 were not deemed necessary as escapement needs (sockeye salmon) and food fishery thresholds (Chinook salmon) were projected to be met. In the recreational fishery, retention of Chinook salmon was not permitted effective July 27 due to run projections below the lower bound of the escapement goal. Additionally, there were no significant surpluses that warranted liberalization of the possession limits in the recreational fishery. 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 weir counts of < 800 Chinook, < 1,500 early, and < 7,500 total sockeye salmon. Food fisheries also exist 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.

The majority of the recreational fishing effort on the Alsek 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 sockeye salmon in the recreational fishery prior to August 15 unless the weir count projection for the early run was $>4,500$ sockeye salmon. The Chinook salmon daily catch limit was one per day, two in possession. For other salmon species, the daily catch and possession limits were two and four fish, respectively. However, the aggregate limit for all salmon combined was two salmon per day, four fish in possession. Recreational salmon fishing was permitted in the Tatshenshini River seven days a week. Headwater areas in the vicinity of the British Columbia/Yukon border were to be closed in late July to protect spawning Chinook salmon. Conservation thresholds that were expected to invoke additional restrictions in the recreational fishery were projected Klukshu weir counts of < 1,000 Chinook and < 10,500 sockeye salmon (early and late runs combined).

A mandatory Yukon Salmon Conservation Catch Card (YSCCC), introduced by the SSC in 1999, was required by all recreational salmon fishers in 2016. 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 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 up to the new weir location to allow for better staging opportunities for salmon in the vicinity of the Klukshu/Tatshenshini confluence.

## Escapement

Total drainage abundance programs are being investigated as part of the development of abundance-based management regimes and to accurately assess whether the escapement goals for Alsek River Chinook and sockeye salmon stocks 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. A large and variable proportion of the drainage-wide escapement of each species is enumerated at the weir on the Klukshu River. Current escapement monitoring programs including the Klukshu and Village Creek weirs, GSI based run reconstruction, expanded counts, and aerial surveys allow annual comparisons of escapement indices. The most reliable long-term comparative escapement index for Alsek River drainage salmon stocks is the Klukshu River weir count. Escapements for 2016 are shown in Table 9. A video enumeration system was installed on the Klukshu River in 2016 (following on the installation of a similar system on Village Creek in 2014), which facilitated salmon passage 24 hours per day.

## Sockeye Salmon

In 2016, the final Klukshu River sockeye salmon weir count was 7,584 fish and the escapement estimate was 7,391 fish (Table 9). The count of 1,405 early run fish (count through August 15) was below the average of 2,659 fish as was the count of 6,179 late run fish with an average of 9,022 fish. The total escapement of 7,391 fish was below the recommended escapement goal range of 7,500 to 11,000 fish. The sockeye salmon count at Village Creek was 410 fish; this was well below average.

## Chinook Salmon

The most reliable comparative Chinook salmon escapement index for the Alsek River drainage is the Klukshu River weir count. In 2016, the final Chinook salmon weir count was 651 fish and the escapement estimate was 646 fish (Table 9). The 2016 escapement estimate was below the escapement goal range of 800 to 1,200 Klukshu Chinook salmon.

## Coho Salmon

The Klukshu River coho salmon weir count was 2,141 fish. As in past years, this does not serve as a reliable run strength indicator as the weir is normally removed well before the end of the coho salmon run to the Klukshu River.

## ENHANCEMENT ACTIVITIES

Snettisham Hatchery is operated by DIPAC, a private non-profit aquaculture organization in Juneau, Alaska. 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 2015/2016. In 2016, brood year 2015 fry were transported to the appropriate systems from May $9^{\text {th }}$ to May $27^{\text {th }}$. There were minimal infectious hematopoietic necrosis (IHNV) losses of the 2015 brood year. An estimated 89,100 Tatsamenie fry in a single incubator were confirmed positive with IHNV and destroyed. Those fry were thermal marked and destined for the extended rearing program.

In 2016, sockeye salmon eggs were collected at Tahltan Lake on the Stikine River for the twenty-eighth year, Tatsamenie Lake system on the Taku River for the twenty-seventh year and Trapper Lake on the Taku River for the eighth year.

## Tahltan Lake

For brood year 2016, the Stikine Enhancement Production Plan set the egg-take goal at 4.91 million sockeye salmon eggs. Canadian technical staff modified the egg-take goal to 5.3 million eggs based on observed escapement and estimated production not exceeding treaty stocking guidelines. Tahltan Fisheries were contracted to perform the egg take. Eleven egg takes occurred from September $2^{\text {nd }}$ to $23^{\text {rd }}$. A total of 2,084 female and 2,007 male sockeye salmon were spawned. An estimated 5.3 million eggs for delivery to

Snettisham Hatchery in Alaska. Two of the 11 lots of eggs being transported to the hatchery were delayed by one day and four were delayed by two days, due to weather. The egg survival at Snettisham Hatchery from green to eyed egg was $76 \%$, which is significantly lower than the long-term average of $85 \%$. An additional loss of 174 thousand eggs to IHNV brought the green egg to stocked fry survival down to $59 \%$. There were 3.1 million sockeye salmon fry planted in Tahltan Lake.

For brood year 2015, a total of 3.4 million sockeye salmon fry were planted back into Tahltan Lake on May 9, 10, 11 and 13. Survival from green egg to stocking fry was $75 \%$.

## Tatsamenie Lake

For brood year 2016, the Taku Enhancement Production Plan (TEPP) set the egg-take goal at 2.0 million sockeye salmon eggs. B. Mercer and Associates Ltd was contracted to collect eggs. Broodstock was captured near the assessment weir and held until ripe. Escapement through the weir was 33,000 fish, which is the largest escapement on record. Four egg takes occurred from September $13^{\text {th }}$ to $24^{\text {th }}$. A total of 458 female and 400 male sockeye salmon were spawned. An estimated 1.8 million eggs were delivered to Snettisham Hatchery. Three of the lots of eggs being transported to the hatchery were delayed by a day and one lot was delayed by three days, due to weather. The egg survival from green to eyed egg was $73 \%$, which is significantly lower than the long-term average of $88 \%$. The green egg to stocked fry survival was $68 \%$. There were 1.2 million sockeye salmon fry delivered to Tatsamenie Lake. Approximately 1.0 million fry were direct planted into the lake. The water supply that fed the on-shore extended rearing troughs was lost. The remaining fry were lake reared in four net pens. Approximately 144 thousand lake-reared fry were released into the lake at 3.9 grams. Approximately 38 thousand fry were destroyed after being diagnosed with IHNV.

For brood year 2015, 470,576 sockeye salmon fry were transported back to Tatsamenie Lake. Survival from green egg to stocked fry was $64 \%$. Approximately 334,349 sockeye salmon fry were released directly into the lake on May $14^{\text {th }}$. Approximately 86,000 sockeye salmon fry were delivered to four onshore extended rearing tanks, located near the northeast end of the lake, on May $27^{\text {th }}$ at 0.7 grams. The fry were reared to 1.8 grams and transferred to pens in the lake. The fry were released into the lake at 5.6 grams on August $11^{\text {th }}$. There were less than 200 mortalities. This was the eighth year of this program. Full evaluation of the success of this study will not be available until these fish return as adults. Additionally, 50,000 fry were placed directly into a lake net pen at .7 grams on May $14^{\text {th }}$. The fry were released on July $13^{\text {th }}$ at 4.2 grams. There were only 28 mortalities.

## Trapper Lake

For brood year 2016, the TEPP set the egg-take goal at 250 thousand sockeye salmon eggs. B. Mercer and Associates Ltd was contracted to collect eggs at Lower Trapper Lake.An estimated 277 thousand eggs were delivered to Snettisham Hatchery. Approximately 212 thousand fry were planted in Lower Trapper Lake. The planted fry will help jump start sockeye salmon colonization of Upper Trapper Lake. In late fall 2017, barrier removal to Upper Trapper Lake is scheduled to begin.

## 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 2016, the four-year-old component of the brood year 2012 egg take returned to the lake. Escapement into the lake was 6,404 fish which is significantly higher than the average of 1,947 fish. Otolith data is pending.

## Tuya Lake

Fry stocking into Tuya Lake was discontinued in 2014 due to Canadian domestic concerns.

## 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 2016.

## Thermal Mark Laboratories

## ADF \&G Thermal Mark Laboratory

During the 2016 season, the ADF\&G Thermal Mark Lab processed 18,468 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 86 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.

Final estimates of stocked sockeye salmon to Alaskan harvests were 31,388 Stikine River fish to District 106 and 108, and 6,800 stocked Taku River sockeye salmon to District 111. Final estimates of stocked sockeye salmon to Canadian fisheries included 32,627 fish to Stikine River fisheries and 4,030 fish to the Taku River fisheries.

## Canadian Thermal Mark Laboratory

Subsamples of juvenile and adult otolith samples collected at the study lakes during the 2016 season are being analyzed at the DFO thermal mark lab in Whitehorse.

## APPENDICES

## Standards

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 catches of Tahltan, Trapper, and Tatsamenie lakes, 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, 2016.

| SW | Subsistence--Stikine |  | D108 sport |  |  | D108 gillnet |  |  |  | D108 troll |  |  | US total large Stikine harvest |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Large | Nonlarge | Large total | Large non-Stikine | Large Stikine | Nonlarge | Large total | Large non-Stikine | Large Stikine | Large total | Large non-Stikine | Large Stikine |  |
| 18 | 0 | 0 | 0 | 0 | 0 |  |  |  |  |  |  |  | 0 |
| 19 | 0 | 0 | 29 | 0 | 29 | 1 | 7 | 0 | 7 | 240 | 73 | 167 | 203 |
| 20 | 0 | 0 | 72 | 0 | 72 | 5 | 29 | 0 | 29 | 154 | 71 | 83 | 184 |
| 21 | 0 | 0 | 177 | 0 | 177 | 11 | 66 | 0 | 66 | 165 | 12 | 153 | 396 |
| 22 | 0 | 0 | 365 | 23 | 342 |  |  |  |  | 104 | 38 | 66 | 408 |
| 23 | 0 | 0 | 218 | 24 | 194 |  |  |  |  | 65 | 57 | 8 | 202 |
| 24 | 0 | 0 | 170 | 118 | 52 |  |  |  |  | 65 | 95 | -30 | 22 |
| 25 | 1 | 3 | 160 | 0 | 160 | 382 | 1,113 | 873 | 240 | 100 | 1 | 99 | 500 |
| 26 | 4 | 6 | 172 | 62 | 110 | 1,333 | 1,248 | 274 | 974 | 50 | 21 | 29 | 1,117 |
| 27 | 3 | 3 | 45 | 0 | 45 | 1,479 | 1,065 | 1,976 | -911 | 83 | 92 | -9 | -872 |
| 28 | 8 | 9 | 34 | 0 | 34 | 599 | 861 | 567 | 294 | 2 | 0 | 2 | 338 |
| 29 | 4 | 5 | 0 | 0 | 0 | 423 | 435 | 437 | -2 | 0 | 0 | 0 | 2 |
| Total | 20 | 26 | 1,442 | 227 | 1,215 | 4,232 | 4,824 | 4,126 | 697 | 1,028 | 460 | 568 | 2,500 |

Appendix A. 2. Weekly harvest of Chinook salmon in the Canadian commercial, Telegraph Aboriginal, and recreational fishery in the Stikine River, 2016.

| SW | LRCF |  |  |  |  |  | URCF |  | Aboriginal Telegraph |  | Tahltan sport fishery |  |  | Canada total large Stikine harvest |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Kept |  | Released |  | Estimated mortality ( $50 \%$ ) |  |  |  |  |  |  |  |  |  |
|  | Large | Nonlarge | Large | Nonlarge | Large | Nonlarge | Large | Nonlarge | Large | Nonlarge | Retained | Released | Total |  |
| 19 | 46 | 2 |  |  |  |  |  |  | 1 |  |  |  |  | 47 |
| 20 | 108 | 8 |  |  |  |  |  |  | 0 |  |  |  |  | 108 |
| 21 | 142 | 4 |  |  |  |  |  |  | 0 |  |  |  |  | 142 |
| 22 | 352 | 31 |  |  |  |  |  |  | 8 |  |  |  |  | 360 |
| 23 | 249 | 29 |  |  |  |  |  |  | 11 |  |  |  |  | 260 |
| 24 |  |  |  |  |  |  |  |  | 87 | 2 |  |  |  | 87 |
| 25 |  |  |  |  | 0 | 0 |  |  | 97 | 26 |  |  |  | 97 |
| 26 | 423 | 202 |  |  | 0 | 0 |  |  | 102 | 22 |  |  |  | 525 |
| 27 | 361 | 193 |  |  | 0 | 0 |  |  | 62 | 14 |  |  |  | 423 |
| 28 | 265 | 109 |  |  | 0 | 0 |  |  | 98 | 14 |  |  |  | 363 |
| 29 | 90 | 46 |  |  | 0 | 0 |  |  | 90 | 42 |  |  |  | 180 |
| 30 | 46 | 16 |  |  | 0 | 0 |  |  | 29 | 13 |  |  |  | 75 |
| 31 | 15 | 11 |  |  | 0 | 0 |  |  | 15 | 4 |  |  |  | 30 |
| 32 | 13 | 2 |  |  | 0 | 0 |  |  | 15 | 2 |  |  |  | 28 |
| 33 | 2 | 2 |  |  | 0 | 0 |  |  |  |  |  |  |  | 2 |
| 34 | 1 | 0 |  |  | 0 | 0 |  |  |  |  |  |  |  | 1 |
| 35 | 1 | 0 |  |  | 0 | 0 |  |  |  |  |  |  |  | 1 |
| 36 | 2 | 0 |  |  | 0 | 0 |  |  |  |  |  |  |  | 2 |
| 37 |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| Total kept | 2,116 | 655 | 0 | 0 | 0 | 0 | 0 | 0 | 615 | 139 | 0 | 0 | 0 | 2,731 |
| Total harvest | 2,116 | 655 |  |  |  |  |  |  |  |  |  |  |  | 2,731 |
| $\underline{\text { Total harvest + mortality }}$ | 2,116 | 655 |  |  |  |  |  |  |  |  |  |  |  |  |

Appendix A. 3. Weekly harvest of Chinook salmon in the Canadian test fisheries in the Stikine River, 2016.

| SW | Drift |  | Set |  | Commercial license |  | Tuya |  | Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Large | Nonlarge | Large | Nonlarge | Large | Nonlarge | Large | Nonlarge | Large | Nonlarge |
| 19 |  |  |  |  |  |  |  |  | 0 | 0 |
| 20 |  |  |  |  |  |  |  |  | 0 | 0 |
| 21 |  |  |  |  |  |  |  |  | 0 | 0 |
| 22 |  |  |  |  |  |  |  |  | 0 | 0 |
| 23 |  |  |  |  |  |  |  |  | 0 | 0 |
| 24 |  |  |  |  | 229 | 19 |  |  | 229 | 19 |
| 25 |  |  |  |  | 254 | 20 |  |  | 254 | 20 |
| 26 | 10 | 7 | 4 | 3 |  |  |  |  | 14 | 10 |
| 27 | 4 | 2 |  |  |  |  |  |  | 4 | 2 |
| 28 |  | 1 |  |  |  |  |  |  | 0 | 1 |
| 29 |  |  |  |  |  |  |  |  | 0 | 0 |
| 30 | 1 |  |  |  |  |  |  |  | 1 | 0 |
| 31 |  | 2 | 1 | 1 |  |  |  |  | 1 | 3 |
| 32 | 1 |  |  |  |  |  |  |  | 1 | 0 |
| 33 |  |  |  |  |  |  |  |  | 0 | 0 |
| 34 |  |  |  |  |  |  |  |  | 0 | 0 |
| 35 |  |  |  |  |  |  |  |  | 0 | 0 |
| 36 |  |  |  |  |  |  |  |  | 0 | 0 |
| 37 |  |  |  |  |  |  |  |  | 0 | 0 |
| 38 |  |  |  |  |  |  |  |  | 0 | 0 |
| 39 |  |  |  |  |  |  |  |  | 0 | 0 |
| 40 |  |  |  |  |  |  |  |  | 0 | 0 |
| 41 |  |  |  |  |  |  |  |  | 0 | 0 |
| 42 |  |  |  |  |  |  |  |  | 0 | 0 |
| Total | 16 | 12 | 5 | 4 | 483 | 39 | 0 | 0 | 504 | 55 |

Appendix A. 4. Weekly harvest of sockeye salmon in the Alaskan District 106 and 108 fisheries, 2016.

| SW | Subsistence | D106 Total | D106-30 | D106-41/42 | D108 |
| :--- | :---: | :---: | :---: | :---: | :---: |
| $22-24$ | 15 |  |  |  |  |
| 25 | 33 | 1,235 | 74 | 1,161 | 444 |
| 26 | 129 | 5,836 | 798 | 5,038 | 11,389 |
| 27 | 316 | 9,536 | 2,225 | 7,311 | 22,283 |
| 28 | 689 | 16,025 | 5,554 | 10,471 | 17,655 |
| 29 | 593 | 14,842 | 4,112 | 10,730 | 8,382 |
| 30 | 282 | 16,951 | 3,432 | 13,519 | 5,146 |
| 31 | 27 | 14,196 | 5,296 | 8,900 | 1,654 |
| 32 | 34 | 15,539 | 7,264 | 8,275 | 1,817 |
| 33 | 5 | 5,700 | 2,100 | 3,600 | 587 |
| 34 | 0 | 4,039 | 1,758 | 2,281 | 524 |
| 35 | 0 | 1,809 | 747 | 1,062 | 161 |
| 36 | 3 | 592 | 199 | 393 | 62 |
| 37 | 0 | 286 | 115 | 171 | 22 |
| 38 | 0 | 53 | 18 | 35 | 16 |
| 39 | 0 | 10 | 3 | 7 | 1 |
| 40 | 0 | 0 | 0 | 0 | 0 |
| 41 | 0 | 0 | 0 | 0 | 0 |
| Total | 2,126 | 106,649 | 33,695 | 72,954 | 70,143 |

Appendix A. 5. Weekly stock proportions of sockeye salmon harvested in the Alaskan D106 commercial drift gillnet fishery, 2016.
Estimates derived from GSI estimates for subdistricts 10641/42 and 106-30; see Appendices G. 1 and G. 2. for GSI detail

|  |  | Stikine |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| SW | Other | All Tahltan | Tuya | Mainstem | Total | lltan Enhal | WildTahltan |
| 25 | 0.495 | 0.343 | 0.101 | 0.061 | 0.505 | 0.113 | 0.229 |
| 26 | 0.461 | 0.353 | 0.109 | 0.078 | 0.539 | 0.126 | 0.227 |
| 27 | 0.591 | 0.271 | 0.071 | 0.066 | 0.409 | 0.088 | 0.183 |
| 28 | 0.585 | 0.263 | 0.107 | 0.045 | 0.415 | 0.095 | 0.169 |
| 29 | 0.720 | 0.164 | 0.055 | 0.061 | 0.280 | 0.056 | 0.108 |
| 30 | 0.917 | 0.044 | 0.008 | 0.031 | 0.083 | 0.017 | 0.027 |
| 31 | 0.927 | 0.014 | 0.008 | 0.050 | 0.073 | 0.005 | 0.009 |
| 32 | 0.961 | 0.004 | 0.004 | 0.031 | 0.039 | 0.002 | 0.003 |
| 33 | 0.983 | 0.000 | 0.002 | 0.015 | 0.017 | 0.000 | 0.000 |
| 34 | 0.989 | 0.000 | 0.000 | 0.011 | 0.011 | 0.000 | 0.000 |
| 35 | 0.988 | 0.000 | 0.000 | 0.012 | 0.012 | 0.000 | 0.000 |
| 36 | 0.987 | 0.000 | 0.000 | 0.013 | 0.013 | 0.000 | 0.000 |
| 37 | 0.985 | 0.000 | 0.000 | 0.014 | 0.015 | 0.000 | 0.000 |
| 38 | 0.987 | 0.000 | 0.000 | 0.013 | 0.013 | 0.000 | 0.000 |
| 39 | 0.988 | 0.000 | 0.000 | 0.012 | 0.012 | 0.000 | 0.000 |
| Total | 0.797 | 0.119 | 0.040 | 0.044 | 0.203 |  |  |
| 25 | 611 | 423 | 125 | 75 | 624 | 140 | 283 |
| 26 | 2,689 | 2,060 | 634 | 453 | 3,147 | 734 | 1,327 |
| 27 | 5,640 | 2,585 | 680 | 631 | 3,896 | 843 | 1,743 |
| 28 | 9,373 | 4,221 | 1,712 | 719 | 6,652 | 1,520 | 2,702 |
| 29 | 10,687 | 2,432 | 815 | 909 | 4,155 | 828 | 1,605 |
| 30 | 15,546 | 740 | 135 | 531 | 1,405 | 282 | 458 |
| 31 | 13,162 | 203 | 119 | 712 | 1,034 | 78 | 124 |
| 32 | 14,937 | 67 | 55 | 480 | 602 | 28 | 39 |
| 33 | 5,602 | 1 | 12 | 86 | 98 | 0 | 1 |
| 34 | 3,994 | 1 | 0 | 44 | 45 | 0 | 1 |
| 35 | 1,787 | 0 | 0 | 21 | 22 | 0 | 0 |
| 36 | 584 | 0 | 0 | 7 | 8 | 0 | 0 |
| 37 | 282 | 0 | 0 | 4 | 4 | 0 | 0 |
| 38 | 52 | 0 | 0 | 1 | 1 | 0 | 0 |
| 39 | 10 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 84,955 | 12,733 | 4,287 | 4,673 | 21,694 | 4,452 | 8,282 |
|  |  |  |  |  |  |  |  |

Appendix A. 6. Weekly stock proportions of sockeye salmon harvested in the Alaskan Subdistrict 106-41/42 (Sumner Strait) commercial drift gillnet fishery, 2016.

| Estimates based on mean GSI; see Appendix G. 1 for GSI details. |  |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Stikine |  |  |  |  |  |
| SW | Other | All Tahltan | Tuya | Mainstem | Total | 1ltan Enhal | WildTahltan |
| 25 | 0.464 | 0.364 | 0.108 | 0.064 | 0.536 | 0.121 | 0.244 |
| 26 | 0.391 | 0.409 | 0.124 | 0.075 | 0.609 | 0.146 | 0.263 |
| 27 | 0.494 | 0.353 | 0.093 | 0.060 | 0.506 | 0.114 | 0.238 |
| 28 | 0.415 | 0.395 | 0.162 | 0.029 | 0.585 | 0.145 | 0.250 |
| 29 | 0.625 | 0.220 | 0.076 | 0.080 | 0.375 | 0.076 | 0.144 |
| 30 | 0.900 | 0.054 | 0.010 | 0.036 | 0.100 | 0.020 | 0.034 |
| 31 | 0.891 | 0.021 | 0.013 | 0.075 | 0.109 | 0.007 | 0.014 |
| 32 | 0.934 | 0.008 | 0.007 | 0.051 | 0.066 | 0.003 | 0.005 |
| 33 | 0.974 | 0.000 | 0.003 | 0.023 | 0.026 | 0.000 | 0.000 |
| 34 | 0.982 | 0.000 | 0.000 | 0.017 | 0.018 | 0.000 | 0.000 |
| 35 | $\mathbf{0 . 9 8 9}$ | $\mathbf{0 . 0 0 0}$ | $\mathbf{0 . 0 0 0}$ | $\mathbf{0 . 0 1 0}$ | $\mathbf{0 . 0 1 1}$ | $\mathbf{0 . 0 0 0}$ | $\mathbf{0 . 0 0 0}$ |
| 36 | 0.996 | 0.000 | 0.000 | 0.003 | 0.004 | 0.000 | 0.000 |
| 37 | $\mathbf{0 . 9 9 6}$ | $\mathbf{0 . 0 0 0}$ | $\mathbf{0 . 0 0 0}$ | $\mathbf{0 . 0 0 3}$ | $\mathbf{0 . 0 0 4}$ | $\mathbf{0 . 0 0 0}$ | $\mathbf{0 . 0 0 0}$ |
| 38 | $\mathbf{0 . 9 9 6}$ | $\mathbf{0 . 0 0 0}$ | $\mathbf{0 . 0 0 0}$ | $\mathbf{0 . 0 0 3}$ | $\mathbf{0 . 0 0 4}$ | $\mathbf{0 . 0 0 0}$ | $\mathbf{0 . 0 0 0}$ |
| 39 | $\mathbf{0 . 9 9 6}$ | $\mathbf{0 . 0 0 0}$ | $\mathbf{0 . 0 0 0}$ | $\mathbf{0 . 0 0 3}$ | $\mathbf{0 . 0 0 4}$ | $\mathbf{0 . 0 0 0}$ | $\mathbf{0 . 0 0 0}$ |
| Total | 0.718 | 0.172 | 0.058 | 0.052 | 0.282 | 0.060 | 0.111 |
| 25 | 538 | 423 | 125 | 74 | 623 | 140 | 283 |
| 26 | 1,971 | 2,060 | 627 | 380 | 3,067 | 734 | 1,326 |
| 27 | 3,613 | 2,578 | 680 | 441 | 3,698 | 835 | 1,742 |
| 28 | 4,341 | 4,134 | 1,693 | 303 | 6,130 | 1,519 | 2,615 |
| 29 | 6,704 | 2,356 | 815 | 855 | 4,026 | 814 | 1,543 |
| 30 | 12,166 | 728 | 135 | 490 | 1,353 | 270 | 458 |
| 31 | 7,931 | 184 | 119 | 666 | 969 | 60 | 124 |
| 32 | 7,732 | 66 | 55 | 421 | 543 | 28 | 39 |
| 33 | 3,505 | 0 | 12 | 83 | 95 | 0 | 0 |
| 34 | 2,241 | 0 | 0 | 40 | 40 | 0 | 0 |
| 35 | 1,051 | 0 | 0 | 11 | 11 | 0 | 0 |
| 36 | 392 | 0 | 0 | 1 | 1 | 0 | 0 |
| 37 | 170 | 0 | 0 | 1 | 1 | 0 | 0 |
| 38 | 35 | 0 | 0 | 0 | 0 | 0 | 0 |
| 39 | 7 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 52,395 | 12,532 | 4,262 | 3,765 | 20,559 | 4,401 | 8,131 |
|  |  |  |  |  |  |  |  |

Appendix A. 7. Weekly stock proportions of sockeye salmon harvested in the Alaskan Subdistrict 106-30 (Clarence Strait) commercial drift gillnet fishery, 2016.

| Estimates based on mean GSI; see Appendix G. 2 for GSI details. |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Stikine |  |  |  |  |  |
| SW | Other | All Tahltan | Tuya | Mainstem | Total | 1 ltan Enhal | WildTahltan |
| 25 | 0.984 | 0.001 | 0.001 | 0.015 | 0.016 | 0.000 | 0.001 |
| 26 | 0.900 | 0.000 | 0.008 | 0.092 | 0.100 | 0.000 | 0.000 |
| 27 | 0.911 | 0.004 | 0.000 | 0.085 | 0.089 | 0.003 | 0.000 |
| 28 | 0.906 | 0.016 | 0.003 | 0.075 | 0.094 | 0.000 | 0.016 |
| 29 | 0.969 | 0.018 | 0.000 | 0.013 | 0.031 | 0.003 | 0.015 |
| 30 | 0.985 | 0.003 | 0.000 | 0.012 | 0.015 | 0.003 | 0.000 |
| 31 | 0.988 | 0.003 | 0.000 | 0.009 | 0.012 | 0.003 | 0.000 |
| 32 | 0.992 | 0.000 | 0.000 | 0.008 | 0.008 | 0.000 | 0.000 |
| 33 | 0.998 | 0.000 | 0.000 | 0.001 | 0.002 | 0.000 | 0.000 |
| 34 | 0.997 | 0.000 | 0.000 | 0.002 | 0.003 | 0.000 | 0.000 |
| 35 | 0.986 | 0.000 | 0.000 | 0.014 | 0.014 | 0.000 | 0.000 |
| 36 | 0.969 | 0.000 | 0.000 | 0.031 | 0.031 | 0.000 | 0.000 |
| 37 | 0.969 | 0.000 | 0.000 | 0.031 | 0.031 | 0.000 | 0.000 |
| 38 | 0.969 | 0.000 | 0.000 | 0.031 | 0.031 | 0.000 | 0.000 |
| 39 | 0.969 | 0.000 | 0.000 | 0.031 | 0.031 | 0.000 | 0.000 |
| Total | 0.966 | 0.006 | 0.001 | 0.027 | 0.034 | 0.002 | 0.004 |
| 25 | 73 | 0 | 0 | 1 | 1 | 0 | 0 |
| 26 | 718 | 0 | 7 | 73 | 80 | 0 | 0 |
| 27 | 2,027 | 8 | 0 | 190 | 198 | 8 | 0 |
| 28 | 5,032 | 87 | 19 | 416 | 522 | 0 | 87 |
| 29 | 3,983 | 76 | 0 | 53 | 129 | 14 | 62 |
| 30 | 3,379 | 12 | 0 | 41 | 53 | 12 | 0 |
| 31 | 5,231 | 18 | 0 | 47 | 65 | 18 | 0 |
| 32 | 7,205 | 0 | 0 | 58 | 59 | 0 | 0 |
| 33 | 2,097 | 0 | 0 | 3 | 3 | 0 | 0 |
| 34 | 1,753 | 0 | 0 | 4 | 5 | 0 | 0 |
| 35 | 736 | 0 | 0 | 11 | 11 | 0 | 0 |
| 36 | 193 | 0 | 0 | 6 | 6 | 0 | 0 |
| 37 | 111 | 0 | 0 | 4 | 4 | 0 | 0 |
| 38 | 17 | 0 | 0 | 1 | 1 | 0 | 0 |
| 39 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 32,560 | 202 | 26 | 908 | 1,135 | 51 | 151 |

Appendix A. 8. Weekly stock proportions sockeye salmon harvested in the Alaskan District 108 commercial drift gillnet fishery, 2016.
Estimates based on mean GSI; see Appendix G. 3 for GSI details.
Stikine

| SW |  | Other | All Tahltan | Tuya | Mainstem | Total | ltan Enha |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| WildTahltan |  |  |  |  |  |  |  |
| 25 | 0.091 | 0.579 | 0.149 | 0.180 | 0.909 | 0.229 | 0.350 |
| 26 | 0.080 | 0.711 | 0.143 | 0.066 | 0.920 | 0.230 | 0.481 |
| 27 | 0.141 | 0.660 | 0.163 | 0.036 | 0.859 | 0.200 | 0.460 |
| 28 | 0.131 | 0.644 | 0.117 | 0.108 | 0.869 | 0.212 | 0.432 |
| 29 | 0.150 | 0.473 | 0.090 | 0.288 | 0.850 | 0.194 | 0.279 |
| 30 | 0.238 | 0.345 | 0.062 | 0.355 | 0.762 | 0.107 | 0.237 |
| 31 | 0.150 | 0.248 | 0.057 | 0.544 | 0.850 | 0.092 | 0.156 |
| 32 | 0.385 | 0.132 | 0.021 | 0.463 | 0.615 | 0.046 | 0.086 |
| 33 | 0.532 | 0.053 | 0.020 | 0.395 | 0.468 | 0.006 | 0.047 |
| 34 | 0.453 | 0.033 | 0.005 | 0.509 | 0.547 | 0.010 | 0.024 |
| 35 | $\mathbf{0 . 4 5 3}$ | $\mathbf{0 . 0 3 3}$ | $\mathbf{0 . 0 0 5}$ | $\mathbf{0 . 5 0 9}$ | $\mathbf{0 . 5 4 7}$ | $\mathbf{0 . 0 1 0}$ | $\mathbf{0 . 0 2 4}$ |
| 36 | $\mathbf{0 . 4 5 3}$ | $\mathbf{0 . 0 3 3}$ | $\mathbf{0 . 0 0 5}$ | $\mathbf{0 . 5 0 9}$ | $\mathbf{0 . 5 4 7}$ | $\mathbf{0 . 0 1 0}$ | $\mathbf{0 . 0 2 4}$ |
| 37 | $\mathbf{0 . 4 5 3}$ | $\mathbf{0 . 0 3 3}$ | $\mathbf{0 . 0 0 5}$ | $\mathbf{0 . 5 0 9}$ | $\mathbf{0 . 5 4 7}$ | $\mathbf{0 . 0 1 0}$ | $\mathbf{0 . 0 2 4}$ |
| 38 | $\mathbf{0 . 4 5 3}$ | $\mathbf{0 . 0 3 3}$ | $\mathbf{0 . 0 0 5}$ | $\mathbf{0 . 5 0 9}$ | $\mathbf{0 . 5 4 7}$ | $\mathbf{0 . 0 1 0}$ | $\mathbf{0 . 0 2 4}$ |
| 39 | $\mathbf{0 . 4 5 3}$ | $\mathbf{0 . 0 3 3}$ | $\mathbf{0 . 0 0 5}$ | $\mathbf{0 . 5 0 9}$ | $\mathbf{0 . 5 4 7}$ | $\mathbf{0 . 0 1 0}$ | $\mathbf{0 . 0 2 4}$ |
| Total | 0.150 | 0.583 | 0.123 | 0.145 | 0.850 | 0.190 | 0.392 |
| 25 | 41 | 257 | 66 | 80 | 403 | 101 | 156 |
| 26 | 912 | 8,093 | 1,631 | 754 | 10,477 | 2,618 | 5,474 |
| 27 | 3,150 | 14,708 | 3,621 | 804 | 19,133 | 4,465 | 10,243 |
| 28 | 2,317 | 11,369 | 2,069 | 1,899 | 15,338 | 3,747 | 7,622 |
| 29 | 1,260 | 3,961 | 751 | 2,410 | 7,122 | 1,625 | 2,336 |
| 30 | 1,225 | 1,773 | 320 | 1,828 | 3,921 | 551 | 1,222 |
| 31 | 249 | 411 | 94 | 900 | 1,405 | 153 | 258 |
| 32 | 700 | 239 | 37 | 841 | 1,117 | 83 | 156 |
| 33 | 312 | 31 | 12 | 232 | 275 | 4 | 27 |
| 34 | 237 | 17 | 3 | 267 | 287 | 5 | 12 |
| 35 | 73 | 5 | 1 | 82 | 88 | 2 | 4 |
| 36 | 28 | 2 | 2 | 0 | 32 | 34 | 1 |

Appendix A. 9. Weekly sockeye salmon harvest and effort in the Canadian commercial and assessment fisheries in the lower Stikine River, 2016.

| SW | LRCF |  |  |  | URCF | Telegraph Aboriginal | Drift Net Test |  | Set Net Test |  | Commercial 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 |  |  |  |  |  |  | 2 | 2 |
| 25 |  |  |  | 0.0 |  | 4 |  |  |  |  | 11 | 11 |
| 26 | 3,982 | 17.7 | 3.00 | 53.0 |  | 28 | 104 | 42 | 350 | 60 |  | 454 |
| 27 | 16,468 | 18.0 | 5.00 | 90.0 |  | 685 | 18 | 14 | 53 | 12 |  | 71 |
| 28 | 20,321 | 17.4 | 5.00 | 87.0 |  | 2,348 | 26 | 14 | 100 | 12 |  | 126 |
| 29 | 13,299 | 15.3 | 4.00 | 61.0 | 152 | 2,996 | 63 | 28 | 102 | 24 |  | 165 |
| 30 | 9,247 | 16.0 | 3.00 | 48.0 | 181 | 2,950 | 53 | 28 | 204 | 48 |  | 257 |
| 31 | 5,240 | 15.5 | 2.00 | 31.0 |  | 768 | 76 | 42 | 177 | 48 |  | 253 |
| 32 | 3,891 | 16.0 | 2.00 | 32.0 |  | 710 | 52 | 42 | 153 | 48 |  | 205 |
| 33 | 1,143 | 16.0 | 1.00 | 16.0 |  | 122 | 40 | 42 | 60 | 48 |  | 100 |
| 34 | 564 | 11.0 | 1.00 | 11.0 |  | 33 | 27 | 42 | 84 | 48 |  | 111 |
| 35 | 997 | 11.8 | 4.00 | 47.0 |  |  | 1 | 28 | 4 | 40 |  | 5 |
| 36 | 587 | 15.2 | 5.50 | 83.4 |  |  |  |  |  | 8 |  | 0 |
| 37 |  |  |  | 0.0 |  |  |  |  |  |  |  | 0 |
| 38 |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 39 |  |  |  |  |  |  |  |  |  |  |  | 0 |
| Total | 75,739 |  | 35.5 | 559.4 | 333 | 10,644 | 460 | 322 | 1,287 | 396 | 13 | 1,760 |

Appendix A. 10. Weekly sockeye salmon stock proportions and harvest by stock in the Canadian commercial fishery in the lower Stikine River, 2016.

| Sex specific age compositions were calculated and the stock composition of the females sampled for egg diameters was expanded to the harvest by age. |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Porportion |  |  |  |  | Harvest |  |  |  |  |
| SW | Small Egg | AllTahltan | Tuya | Mainstem | ahltanEnhanc | cAllTahltan | Tuya | Mainstem | WildTahltan | TahltanEnhance |
| 19 |  |  |  |  |  | 0 | 0 | 0 | 0 | 0 |
| 20 |  |  |  |  |  | 0 | 0 | 0 | 0 | 0 |
| 21 |  |  |  |  |  | 0 | 0 | 0 | 0 | 0 |
| 22 |  |  |  |  |  | 0 | 0 | 0 | 0 | 0 |
| 23 |  |  |  |  |  | 0 | 0 | 0 | 0 | 0 |
| 24 |  |  |  |  |  | 0 | 0 | 0 | 0 | 0 |
| 25 |  |  |  |  |  | 0 | 0 | 0 | 0 | 0 |
| 26 | 0.989 | 0.659 | 0.331 | 0.010 | 0.212 | 2,625 | 1,318 | 39 | 1,779 | 845 |
| 27 | 0.994 | 0.800 | 0.183 | 0.017 | 0.240 | 13,173 | 3,014 | 281 | 9,224 | 3,949 |
| 28 | 0.978 | 0.762 | 0.204 | 0.034 | 0.218 | 15,488 | 4,141 | 692 | 11,048 | 4,440 |
| 29 | 0.929 | 0.757 | 0.150 | 0.093 | 0.208 | 10,066 | 1,999 | 1,234 | 7,298 | 2,768 |
| 30 | 0.742 | 0.679 | 0.120 | 0.201 | 0.242 | 6,280 | 1,111 | 1,856 | 4,042 | 2,238 |
| 31 | 0.429 | 0.499 | 0.103 | 0.398 | 0.110 | 2,616 | 541 | 2,083 | 2,040 | 576 |
| 32 | 0.342 | 0.317 | 0.110 | 0.573 | 0.091 | 1,233 | 428 | 2,230 | 879 | 354 |
| 33 | 0.212 | 0.261 | 0.010 | 0.730 | 0.120 | 298 | 11 | 834 | 161 | 137 |
| 34 | 0.111 | 0.125 | 0.007 | 0.868 | 0.013 | 70 | 4 | 490 | 63 | 7 |
| 35 | 0.102 | 0.108 | 0.000 | 0.892 | 0.010 | 108 | 0 | 889 | 98 | 10 |
| 36 | 0.104 | 0.109 | 0.000 | 0.891 | 0.013 | 64 | 0 | 523 | 56 | 8 |
| 37 |  |  |  |  |  | 0 | 0 | 0 | 0 | 0 |
| Total |  |  |  |  |  | 52,020 | 12,568 | 11,151 | 36,688 | 15,332 |
| Proportion |  |  |  |  |  | 0.687 | 0.166 | 0.147 | 0.484 | 0.202 |
| Week | Harvest/Effort below Porcupine |  |  | CPUE |  |  |  |  |  |  |
|  | Sockeye | Permit Day |  | Total | Small Egg | AllTahltar | Tuya | Mainstem | WildTahltan | TahltanEnhance |
| 19 |  |  |  |  |  |  |  |  |  |  |
| 20 |  |  |  |  |  |  |  |  |  |  |
| 21 |  |  |  |  |  |  |  |  |  |  |
| 22 |  |  |  |  |  |  |  |  |  |  |
| 23 |  |  |  |  |  |  |  |  |  |  |
| 24 |  |  |  |  |  |  |  |  |  |  |
| 25 |  |  |  |  |  |  |  |  |  |  |
| 26 | 3,982 | 53.0 |  | 75.118 | 74.306 | 49.513 | 24.869 | 0.736 | 33.568 | 15.945 |
| 27 | 16,468 | 90.0 |  | 182.978 | 181.797 | 146.364 | 33.491 | 3.122 | 102.487 | 43.877 |
| 28 | 20,321 | 87.0 |  | 233.575 | 228.524 | 178.023 | 47.598 | 7.954 | 126.990 | 51.033 |
| 29 | 13,299 | 61.0 |  | 218.016 | 202.574 | 165.016 | 32.770 | 20.230 | 119.637 | 45.379 |
| 30 | 9,247 | 48.0 |  | 192.646 | 142.897 | 130.827 | 23.148 | 38.671 | 84.205 | 46.622 |
| 31 | 5,240 | 31.0 |  | 169.032 | 72.442 | 84.387 | 17.452 | 67.194 | 65.794 | 18.594 |
| 32 | 3,891 | 32.0 |  | 121.594 | 41.598 | 38.531 | 13.375 | 69.687 | 27.477 | 11.054 |
| 33 | 1,143 | 16.0 |  | 71.438 | 15.153 | 18.625 | 0.688 | 52.125 | 10.052 | 8.573 |
| 34 | 564 | 11.0 |  | 51.273 | 5.697 | 6.386 | 0.365 | 44.521 | 5.733 | 0.653 |
| 35 | 997 | 47.0 |  | 21.213 | 2.169 | 2.298 | 0.000 | 18.915 | 2.088 | 0.210 |
| 36 | 587 | 83.4 |  | 7.035 | 0.734 | 0.768 | 0.000 | 6.267 | 0.677 | 0.092 |
| 37 |  |  |  |  |  |  |  |  |  |  |
| Total |  |  |  | 1343.92 | 967.89 | 820.74 | 193.76 | 329.42 | 578.71 | 242.03 |
| Proportion |  |  |  |  | 0.720 | 0.611 | 0.144 | 0.245 | 0.431 | 0.180 |

Appendix A. 11. Harvest by stock and week for sockeye salmon in the Canadian upper river commercial and Aboriginal fisheries in the Stikine River, 2016.
In the absence of otolith analysis the fraction of Tuya, Tahltan wild, and Tahltan enhanced was calculated based on the lower River fraction from the previous week(used week 25 fraction from lower river for both weeks 24-25)

|  | Stock |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: |
| SW | All Tahltanb | Tuya | Mainstem WildTahltanahltanEnhanc |  |  |
| Proportion by stock for upper river fisheries |  |  |  |  |  |
| 24 | 0.708 | 0.290 | 0.002 | 0.494 | 0.214 |
| 25 | 0.708 | 0.290 | 0.002 | 0.494 | 0.214 |
| 26 | 0.708 | 0.290 | 0.002 | 0.494 | 0.214 |
| 27 | 0.664 | 0.334 | 0.002 | 0.450 | 0.214 |
| 28 | 0.812 | 0.186 | 0.002 | 0.571 | 0.241 |
| 29 | 0.787 | 0.211 | 0.002 | 0.565 | 0.223 |
| 30 | 0.833 | 0.165 | 0.002 | 0.609 | 0.224 |
| 31 | 0.848 | 0.150 | 0.002 | 0.522 | 0.326 |
| 32 | 0.827 | 0.171 | 0.002 | 0.571 | 0.256 |
| 33 | 0.741 | 0.257 | 0.002 | 0.476 | 0.265 |
| 34 | 0.962 | 0.036 | 0.002 | 0.398 | 0.565 |
| Total |  |  |  |  |  |

Harvest by stock for upper river commercial fishery

| 27 | 0 | 0 | 0 | 0 | 0 |
| :--- | :---: | :---: | :---: | :---: | :---: |
| 28 | 0 | 0 | 0 | 0 | 0 |
| 29 | 120 | 32 | 0 | 86 | 34 |
| 30 | 151 | 30 | 0 | 110 | 40 |
| Total | 270 | 62 | 1 | 196 | 74 |


| Harvest by stock for Telegraph aboriginal fishery |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: |
| 24 | 0 | 0 | 0 | 0 | 0 |
| 25 | 3 | 1 | 0 | 2 | 1 |
| 26 | 20 | 8 | 0 | 14 | 6 |
| 27 | 455 | 229 | 1 | 308 | 147 |
| 28 | 1,907 | 436 | 5 | 1,341 | 566 |
| 29 | 2,359 | 631 | 6 | 1,692 | 668 |
| 30 | 2,456 | 488 | 6 | 1,797 | 660 |
| 31 | 651 | 115 | 2 | 401 | 250 |
| 32 | 587 | 121 | 1 | 405 | 182 |
| 33 | 90 | 31 | 0 | 58 | 32 |
| 34 | 32 | 1 | 0 | 13 | 19 |
| 35 | 0 | 0 | 0 | 0 | 0 |
| Total | 8,561 | 2,062 | 21 | 6,031 | 2,529 |

Appendix A. 12. Weekly harvest, CPUE, and migratory timing of Tahltan, Tuya, and mainstem sockeye salmon stocks in the Stikine River test fishery, 2016.

| Sex specific age compositions were and the stock composition of the females sampled for egg diameters was expanded to the harvest by age. <br> 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 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 26 | 0.988 | 0.712 | 0.279 | 0.009 | 0.254 | 74 | 29 | 1 | 26 | 1.764 | 0.690 | 0.022 | 2.476 | 0.122 | 0.048 | 0.002 |
| 27 | 0.962 | 0.789 | 0.197 | 0.014 | 0.229 | 14 | 4 | 0 | 4 | 1.014 | 0.254 | 0.018 | 1.286 | 0.070 | 0.018 | 0.001 |
| 28 | 0.902 | 0.824 | 0.144 | 0.032 | 0.328 | 21 | 4 | 1 | 9 | 1.530 | 0.267 | 0.059 | 1.857 | 0.106 | 0.019 | 0.004 |
| 29 | 0.804 | 0.742 | 0.166 | 0.092 | 0.299 | 47 | 10 | 6 | 19 | 1.670 | 0.373 | 0.207 | 2.250 | 0.116 | 0.026 | 0.014 |
| 30 | 0.643 | 0.556 | 0.222 | 0.222 | 0.212 | 29 | 12 | 12 | 11 | 1.053 | 0.420 | 0.420 | 1.893 | 0.073 | 0.029 | 0.029 |
| 31 | 0.398 | 0.445 | 0.146 | 0.409 | 0.116 | 34 | 11 | 31 | 9 | 0.805 | 0.264 | 0.741 | 1.810 | 0.056 | 0.018 | 0.051 |
| 32 | 0.112 | 0.317 | 0.073 | 0.610 | 0.051 | 16 | 4 | 32 | 3 | 0.393 | 0.091 | 0.755 | 1.238 | 0.027 | 0.006 | 0.052 |
| 33 | 0.087 | 0.112 | 0.122 | 0.765 | 0.054 | 4 | 5 | 31 | 2 | 0.107 | 0.117 | 0.729 | 0.952 | 0.007 | 0.008 | 0.050 |
| 34 | 0.075 | 0.036 | 0.091 | 0.873 | 0.018 | 1 | 2 | 24 | 0 | 0.023 | 0.058 | 0.561 | 0.643 | 0.002 | 0.004 | 0.039 |
| 35 | 0.000 | 0.000 | 0.000 | 1.000 | 0.000 | 0 | 0 | 1 | 0 | 0.000 | 0.000 | 0.036 | 0.036 | 0.000 | 0.000 | 0.002 |
| Total |  |  |  |  |  | 242 | 81 | 138 | 83 | 8.360 | 2.533 | 3.548 | 14.440 |  |  |  |
| Prop |  |  |  |  |  | 0.526 | 0.175 | 0.299 |  |  |  |  |  | 0.579 | 0.175 | 0.246 |
| Set gillnet |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 26 |  | 0.712 | 0.279 | 0.009 | 0.254 | 249 | 98 | 3 | 89 | 4.156 | 1.626 | 0.052 | 5.833 | 0.125 | 0.049 | 0.002 |
| 27 |  | 0.789 | 0.197 | 0.014 | 0.229 | 42 | 10 | 1 | 12 | 3.484 | 0.871 | 0.062 | 4.417 | 0.104 | 0.026 | 0.002 |
| 28 |  | 0.824 | 0.144 | 0.032 | 0.328 | 82 | 14 | 3 | 33 | 6.867 | 1.200 | 0.267 | 8.333 | 0.206 | 0.036 | 0.008 |
| 29 |  | 0.742 | 0.166 | 0.092 | 0.299 | 76 | 17 | 9 | 30 | 3.155 | 0.704 | 0.391 | 4.250 | 0.095 | 0.021 | 0.012 |
| 30 |  | 0.556 | 0.222 | 0.222 | 0.212 | 114 | 45 | 45 | 43 | 2.365 | 0.943 | 0.943 | 4.250 | 0.071 | 0.028 | 0.028 |
| 31 |  | 0.445 | 0.146 | 0.409 | 0.116 | 79 | 26 | 72 | 21 |  |  |  |  |  |  |  |
| 32 |  | 0.317 | 0.073 | 0.610 | 0.051 | 49 | 11 | 93 | 8 | 1.011 | 0.233 | 1.944 | 3.188 | 0.030 | 0.007 | 0.058 |
| 33 |  | 0.112 | 0.122 | 0.765 | 0.054 | 7 | 7 | 46 | 3 | 0.140 | 0.153 | 0.957 | 1.250 | 0.004 | 0.005 | 0.029 |
| 34 |  | 0.036 | 0.091 | 0.873 | 0.018 | 3 | 8 | 73 | 2 | 0.064 | 0.159 | 1.527 | 1.750 | 0.002 | 0.005 | 0.046 |
| 35 |  | 0.000 | 0.000 | 1.000 | 0.000 | 0 | 0 | 4 | 0 | 0.000 | 0.000 | 0.100 | 0.100 | 0.000 | 0.000 | 0.003 |
| Total |  |  |  |  |  | 700 | 237 | 351 | 241 | 21.24 | 5.89 | 6.24 | 33.37 |  |  |  |
| Prop |  |  |  |  |  | 0.544 | 0.184 | 0.272 |  |  |  |  |  | 0.636 | 0.176 | 0.187 |
| Total Test Fishery Harvest |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 25 |  | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0 | 0 | 0 |  |  |  |  |  |  |  |
| 26 |  | 0.712 | 0.279 | 0.009 | 0.254 | 323 | 127 | 4 | 116 |  |  |  |  |  |  |  |
| 27 |  | 0.789 | 0.197 | 0.014 | 0.229 | 56 | 14 | 1 | 16 |  |  |  |  |  |  |  |
| 28 |  | 0.824 | 0.144 | 0.032 | 0.328 | 104 | 18 | 4 | 41 |  |  |  |  |  |  |  |
| 29 |  | 0.742 | 0.166 | 0.092 | 0.299 | 122 | 27 | 15 | 49 |  |  |  |  |  |  |  |
| 30 |  | 0.556 | 0.222 | 0.222 | 0.212 | 143 | 57 | 57 | 54 |  |  |  |  |  |  |  |
| 31 |  | 0.445 | 0.146 | 0.409 | 0.116 | 113 | 37 | 104 | 29 |  |  |  |  |  |  |  |
| 32 |  | 0.317 | 0.073 | 0.610 | 0.051 | 65 | 15 | 125 | 10 |  |  |  |  |  |  |  |
| 33 |  | 0.112 | 0.122 | 0.765 | 0.054 | 11 | 12 | 77 | 5 |  |  |  |  |  |  |  |
| 34 |  | 0.036 | 0.091 | 0.873 | 0.018 | 4 | 10 | 97 | 2 |  |  |  |  |  |  |  |
| 35 |  | 0.000 | 0.000 | 1.000 | 0.000 | 0 | 0 | 5 | 0 |  |  |  |  |  |  |  |
| Total |  |  |  |  |  | 942 | 317 | 488 | 324 |  |  |  |  |  |  |  |
| Prop |  |  |  |  |  | 0.539 | 0.182 | 0.279 | 0.185 |  |  |  |  |  |  |  |
| AllTahltan harvest |  |  |  | ThiltanEnhanc | WildTahltan |  |  |  |  |  |  |  |  |  |  |  |
| 25 |  | 0.000 |  | 0.000 | 0.000 |  |  |  |  |  |  |  |  |  |  |  |
| 26 |  | 0.712 |  | 0.254 | 0.458 |  |  |  |  |  |  |  |  |  |  |  |
| 27 |  | 0.789 |  | 0.229 | 0.560 |  |  |  |  |  |  |  |  |  |  |  |
| 28 |  | 0.824 |  | 0.328 | 0.496 |  |  |  |  |  |  |  |  |  |  |  |
| 29 |  | 0.742 |  | 0.299 | 0.444 |  |  |  |  |  |  |  |  |  |  |  |
| 30 |  | 0.556 |  | 0.212 | 0.345 |  |  |  |  |  |  |  |  |  |  |  |
| 31 |  | 0.445 |  | 0.116 | 0.329 |  |  |  |  |  |  |  |  |  |  |  |
| 32 |  | 0.317 |  | 0.051 | 0.266 |  |  |  |  |  |  |  |  |  |  |  |
| 33 |  | 0.112 |  | 0.054 | 0.058 |  |  |  |  |  |  |  |  |  |  |  |
| 34 |  | 0.000 |  | 0.018 | 0.000 |  |  |  |  |  |  |  |  |  |  |  |
| 35 |  | 0.000 |  | 0.000 | 0.000 |  |  |  |  |  |  |  |  |  |  |  |

Appendix A. 13. Daily test harvest taken from the Tuya Assessment Fishery located above the Tahltan River, July 2016.

Not conducted in 2016

Appendix A. 14. Weekly coho salmon harvest in the Alaskan District 106 and 108 fisheries, 2016.

| SW | D106 |  |  |  |  | D108 |  |  | Subsistence harvest |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Hatchery | Wild | Total | 106-41/42 | 106-30 | Hatchery | Wild | Total |  |
| 25 | 186 | 326 | 512 | 390 | 122 | 23 | 10 | 33 | 0 |
| 26 | 1,897 | 612 | 2,509 | 1,554 | 955 | 0 | 469 | 469 | 0 |
| 27 | 1,946 | 2,551 | 4,497 | 2,712 | 1,785 | 871 | 90 | 961 | 0 |
| 28 | 3,997 | 2,834 | 6,831 | 3,035 | 3,796 | 282 | 470 | 752 | 0 |
| 29 | 3,172 | 3,145 | 6,317 | 3,421 | 2,896 | 170 | 339 | 509 | 2 |
| 30 | 1,691 | 3,948 | 5,639 | 2,997 | 2,642 | 0 | 609 | 609 | 0 |
| 31 | 589 | 3,623 | 4,212 | 1,864 | 2,348 | 81 | 545 | 626 | 12 |
| 32 | 492 | 5,638 | 6,130 | 2,547 | 3,583 | 3 | 944 | 947 | 0 |
| 33 | 188 | 3,315 | 3,503 | 2,060 | 1,443 | 81 | 706 | 787 | 0 |
| 34 | 21 | 6,835 | 6,856 | 4,554 | 2,302 | 89 | 1,721 | 1,810 | 0 |
| 35 | 229 | 5,357 | 5,586 | 3,233 | 2,353 | 6 | 1,157 | 1,163 | 0 |
| 36 | 2,550 | 4,182 | 6,732 | 4,257 | 2,475 | 178 | 1,989 | 2,167 | 8 |
| 37 | 3,043 | 4,902 | 7,945 | 3,673 | 4,272 | 250 | 1,329 | 1,579 | 10 |
| 38 | 12,384 | 9,084 | 21,468 | 6,432 | 15,036 | 1,186 | 1,897 | 3,083 | 23 |
| 39 | 8,150 | 11,301 | 19,451 | 5,723 | 13,728 | 1,203 | 938 | 2,141 | 12 |
| 40 | 7,287 | 2,952 | 10,239 | 3,805 | 6,434 | 2,408 | 657 | 3,065 | 6 |
| 41 | 2,683 | 991 | 3,674 | 899 | 2,775 | 1,181 | 264 | 1,445 | 0 |
| Total | 50,505 | 71,596 | 122,101 | 53,156 | 68,945 | 8,012 | 14,134 | 22,146 | 73 |

Appendix A. 15. Weekly harvest of coho salmon in the Canadian lower river commercial fishery and test fishery 2016.

| SW | LRCF | Test |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Drift | Set | Additional |  |
| 19 |  |  |  |  |  |
| 20 |  |  |  |  |  |
| 21 |  |  |  |  |  |
| 22 |  |  |  |  |  |
| 23 |  |  |  |  |  |
| 24 |  |  |  |  |  |
| 25 |  |  |  |  |  |
| 26 |  |  |  |  | 0 |
| 27 |  |  |  |  | 0 |
| 28 | 1 |  |  |  | 1 |
| 29 | 2 |  | 1 |  | 3 |
| 30 | 3 |  | 1 |  | 4 |
| 31 | 12 | 1 | 2 |  | 15 |
| 32 | 86 | 4 | 11 |  | 101 |
| 33 | 96 | 3 | 4 |  | 103 |
| 34 | 189 | 20 | 41 |  | 250 |
| 35 | 1,591 | 8 | 35 |  | 1,634 |
| 36 | 3,366 |  | 9 |  | 3,375 |
| 37 |  |  |  |  | 0 |
| 38 |  |  |  |  |  |
| 39 |  |  |  |  |  |
| 40 |  |  |  |  |  |
| 41 |  |  |  |  |  |
| 42 |  |  |  |  |  |
| Total | 5,346 | 36 | 104 | 0 | 5,486 |

Appendix A. 16. Weekly salmon effort in the Alaskan District 106 and 108 fisheries, 2016.

| Effort may be less thanSWStartDate |  | D106 |  |  | 106-41/42 |  |  | 106-30 |  |  | D108 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  | Permit |  |  | Permit |  |  | Permit |
|  |  | Permits | Days | Days | Permits | Days | Days | Permits | Days | Days | Permits | Days | Days |
| 25 | 12-Jun | 31 | 2.0 | 62 | 26 | 2.0 | 52 | 6 | 2.0 | 12 | 50 | 2.0 | 100 |
| 26 | 19-Jun | 45 | 3.0 | 135 | 34 | 3.0 | 102 | 12 | 3.0 | 36 | 74 | 5.0 | 245 |
| 27 | 29-Jun | 54 | 3.0 | 162 | 36 | 3.0 | 108 | 23 | 3.0 | 69 | 85 | 5.5 | 339 |
| 28 | 3-Jul | 55 | 3.0 | 165 | 29 | 3.0 | 87 | 27 | 3.0 | 81 | 76 | 5.5 | 292 |
| 29 | 10-Jul | 56 | 4.0 | 224 | 33 | 4.0 | 132 | 24 | 4.0 | 96 | 58 | 5.0 | 230 |
| 30 | 17-Jul | 64 | 4.0 | 256 | 40 | 4.0 | 160 | 26 | 4.0 | 104 | 68 | 4.0 | 272 |
| 31 | 24-Jul | 64 | 3.0 | 192 | 36 | 3.0 | 108 | 31 | 3.0 | 93 | 63 | 3.0 | 189 |
| 32 | 31-Jul | 76 | 3.0 | 228 | 32 | 3.0 | 96 | 45 | 3.0 | 135 | 59 | 3.0 | 177 |
| 33 | 7-Aug | 52 | 3.0 | 156 | 28 | 3.0 | 84 | 24 | 3.0 | 72 | 38 | 3.0 | 114 |
| 34 | 14-Aug | 66 | 3.0 | 198 | 35 | 3.0 | 105 | 32 | 3.0 | 96 | 36 | 3.0 | 108 |
| 35 | 21-Aug | 73 | 2.0 | 146 | 37 | 2.0 | 74 | 37 | 2.0 | 74 | 22 | 2.0 | 44 |
| 36 | 28-Aug | 55 | 2.0 | 110 | 38 | 2.0 | 76 | 18 | 2.0 | 36 | 24 | 2.0 | 48 |
| 37 | 4-Sep | 61 | 2.0 | 122 | 38 | 2.0 | 76 | 23 | 2.0 | 46 | 17 | 2.0 | 34 |
| 38 | 11-Sep | 69 | 2.0 | 138 | 34 | 2.0 | 68 | 35 | 2.0 | 70 | 19 | 2.0 | 38 |
| 39 | 18-Sep | 74 | 3.0 | 222 | 32 | 3.0 | 96 | 48 | 3.0 | 144 | 12 | 3.0 | 36 |
| 40 | 25-Sep | 32 | 3.0 | 96 | 15 | 3.0 | 45 | 17 | 3.0 | 51 | 12 | 3.0 | 36 |
| 41 | 2-Oct | 15 | 2.0 | 30 | 6 | 2.0 | 12 | 10 | 2.0 | 20 | 7 | 2.0 | 14 |
| Total |  |  | 47 | 2,642 |  | 47 | 1,481 |  | 47 | 1,235 |  | 55 | 2,316 |

Appendix A. 17. Weekly salmon effort in the Canadian fisheries in the Stikine River, 2016.

| SW | Commercial license Test fishery |  |  |  | LRCF |  |  | URCF |  |  | Telegraph Aboriginal |  |  | Test |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Start <br> Date | Permits | Days | Permit Days | Permits | Days | Permit Days | Permits | Days | Permit Days | Permits | Days | Permit Days | \# Drifts | Set hours |
| 19 | 1-May |  |  | 0 | 11.00 | 2.0 | 22 |  |  |  | 1 | 1 | 1 |  |  |
| 20 | 8-May |  |  | 0 | 9.67 | 3.0 | 29 |  |  |  |  |  | 0 |  |  |
| 21 | 15-May |  |  | 0 | 9.67 | 3.0 | 29 |  |  |  |  |  | 0 |  |  |
| 22 | 22-May |  |  | 0 | 16.33 | 2.4 | 39 |  |  |  | 3 | 2 | 5 |  |  |
| 23 | 29-May |  |  | 0 | 17.00 | 1.0 | 17 | 0 | 1 |  | 6 | 2 | 12 |  |  |
| 24 | 5-Jun | 17.000 | 0.542 | 9 |  |  | 0 |  |  |  | 4 | 7 | 31 |  |  |
| 25 | 12-Jun | 17.500 | 0.500 | 9 |  |  | 0 |  |  |  | 6 | 7 | 40 |  |  |
| 26 | 19-Jun |  |  |  | 17.67 | 3.0 | 53 |  |  |  | 4 | 7 | 29 | 42 | 60 |
| 27 | 26-Jun |  |  |  | 18.00 | 5.0 | 90 | 0 | 1 |  | 7 | 7 | 48 | 14 | 12 |
| 28 | 3-Jul |  |  |  | 17.40 | 5.0 | 87 | 0.0 | 3.0 | 0 | 20.3 | 7.0 | 142 | 14 | 12.0 |
| 29 | 10-Jul |  |  |  | 15.25 | 4.0 | 61 | 1.0 | 3.0 | 3 | 25.0 | 7.0 | 175 | 28 | 24.0 |
| 30 | 17-Jul |  |  |  | 16.00 | 3.0 | 48 | 1.0 | 3.0 |  | 24.7 | 7.0 | 173 | 28 | 48.0 |
| 31 | 24-Jul |  |  |  | 15.50 | 2.0 | 31 | 0.0 | 3.0 |  | 8.1 | 7.0 | 57 | 42 | 48.0 |
| 32 | 31-Jul |  |  |  | 16.00 | 2.0 | 32 | 0.0 | 2.0 |  | 5.7 | 7.0 | 40 | 42 | 48.0 |
| 33 | 7-Aug |  |  |  | 16.00 | 1.0 | 16 | 0.0 | 2.0 |  | 1.8 | 4.0 | 7 | 42 | 48.0 |
| 34 | 14-Aug |  |  |  | 11.00 | 1.0 | 11 |  |  |  | 1 | 4 | 4 | 42 | 48.0 |
| 35 | 21-Aug |  |  |  | 11.75 | 4.0 | 47 |  |  |  |  |  |  | 28 | 40.0 |
| 36 | 28-Aug |  |  |  | 15.17 | 5.5 | 83 |  |  |  |  |  |  |  | 8.0 |
| 37 | 4-Sep |  |  |  |  |  | 0 |  |  |  |  |  |  |  |  |
| 38 | 11-Sep |  |  |  |  |  | 0 |  |  |  |  |  |  |  |  |
| 39 | 18-Sep |  |  |  |  |  | 0 |  |  |  |  |  |  |  |  |
| 40 | $25-\mathrm{Sep}$ |  |  |  |  |  | 0 |  |  |  |  |  |  |  |  |
| 41 | 2-Oct |  |  |  |  |  | 0 |  |  |  |  |  |  |  |  |
| 42 | 9 -Oct |  |  |  |  |  | 0 |  |  |  |  |  |  |  |  |
| Total |  |  | 1.0 | 18.0 |  | 46.9 | 695.9 |  | 18.0 | 3.0 |  | 76.0 | 764.0 | 322.0 | 396.0 |

Appendix A. 18. Tuya assessment fishery, 2016.
Not conducted in 2016

Appendix A. 19. Daily counts of adult sockeye salmon passing through Tahltan Lake weir, 2016.


Appendix A. 20. Daily counts of sockeye salmon smolt migrating through Tahltan Lake smolt weir, 2016.

| Date | Count | Cumulative |  | Date | Count | Cumulative |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Count | Percent |  |  | Count | Percent |
| 6-May | weir in |  |  | 1-Jun | 4,756 | 2,073,483 | 98.99\% |
| 6-May | 22,574 | 22,574 | 1.08\% | 2-Jun | 7,400 | 2,080,883 | 99.35\% |
| 7-May | 36,968 | 59,542 | 2.84\% | 3-Jun | 6,203 | 2,087,086 | 99.64\% |
| 8-May | 27,525 | 87,067 | 4.16\% | 4-Jun | 1,935 | 2,089,021 | 99.73\% |
| 9-May | 103,805 | 190,872 | 9.11\% | 5-Jun | 1,949 | 2,090,970 | 99.83\% |
| 10-May | 19,949 | 210,821 | 10.07\% | 6-Jun | 1,686 | 2,092,656 | 99.91\% |
| 11-May | 15,870 | 226,691 | 10.82\% | 7-Jun | 721 | 2,093,377 | 99.94\% |
| 12-May | 27,894 | 254,585 | 12.15\% | 8-Jun | 737 | 2,094,114 | 99.98\% |
| 13-May | 68,001 | 322,586 | 15.40\% | 9-Jun | 478 | 2,094,592 | 100.00\% |
| 14-May | 136,492 | 459,078 | 21.92\% | 9 -Jun | weir pulled |  |  |
| 15-May | 177,731 | 636,809 | 30.40\% |  |  |  |  |
| 16-May | 81,272 | 718,081 | 34.28\% |  |  |  |  |
| 17-May | 78,095 | 796,176 | 38.01\% |  |  |  |  |
| 18-May | 280,114 | 1,076,290 | 51.38\% | otolith | amples |  |  |
| 19-May | 59,467 | 1,135,757 | 54.22\% | ehanced | wild |  |  |
| 20-May | 188,807 | 1,324,564 | 63.24\% | 270 | 256 |  |  |
| 21-May | 182,180 | 1,506,744 | 71.93\% | 0.513 | 0.487 |  |  |
| 22-May | 201,597 | 1,708,341 | 81.56\% |  |  |  |  |
| 23-May | 152,429 | 1,860,770 | 88.84\% |  |  |  |  |
| 24-May | 47,841 | 1,908,611 | 91.12\% |  |  |  |  |
| 25-May | 30,188 | 1,938,799 | 92.56\% |  |  |  |  |
| 26-May | 76,435 | 2,015,234 | 96.21\% |  |  |  |  |
| 27-May | 15,389 | 2,030,623 | 96.95\% |  |  |  |  |
| 28-May | 6,300 | 2,036,923 | 97.25\% |  |  |  |  |
| 29-May | 9,000 | 2,045,923 | 97.68\% |  |  |  |  |
| 30-May | 9,368 | 2,055,291 | 98.12\% | Wild | 1,019,421 |  |  |
| 31-May | 13,436 | 2,068,727 | 98.77\% | Hatchery | 1,075,171 |  |  |
| Total |  |  |  |  | 2,094,592 |  |  |

Appendix A. 21. Daily counts of adult Chinook salmon passing through Little Tahltan weir, 2016.


Appendix B. 1. Historic salmon harvest and effort in the Alaskan District 106

| Year | commercial gillnet fishery, 1960-2016. |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Harvest |  |  |  | Days | Effort <br> Permit |
|  | Chinook | Sockeye | Coho | Pink | Chum | Boats | Open | Days |
| 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 |
| 60-15 | 1,479 | 107,329 | 105,961 | 313,210 | 115,300 |  | 38.1 | 2,827 |
| 06-15 | 2,220 | 86,054 | 143,509 | 265,844 | 174,954 | 151 | 48.0 | 2,692 |

Appendix B. 2 Historic salmon harvest and effort in the Alaskan District 108 commercial gillnet fishery, 1962-2016.

| Year | Harvest |  |  |  |  | Boats | $\begin{aligned} & \text { Days } \\ & \text { Open } \end{aligned}$ | Effort <br> Permit 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 | 846 |
| 1992 | 967 | 52,717 | 22,127 | 66,742 | 15,458 | 135 | 51 | 1,812 |
| 1993 | 1,628 | 76,874 | 14,307 | 39,661 | 22,504 | 157 | 48 | 2,220 |
| 1994 | 1,996 | 97,224 | 44,891 | 35,405 | 27,658 | 179 | 58 | 3,011 |
| 1995 | 1,702 | 76,756 | 17,834 | 37,788 | 54,296 | 158 | 50 | 2,581 |
| 1996 | 1,717 | 154,150 | 19,059 | 37,651 | 135,623 | 190 | 57 | 3,228 |
| 1997 | 2,566 | 93,039 | 2,140 | 65,745 | 38,913 | 173 | 44 | 2,537 |
| 1998 | 460 | 22,031 | 19,206 | 39,246 | 41,057 | 119 | 45 | 1,073 |
| 1999 | 1,049 | 36,601 | 28,437 | 48,552 | 117,196 | 150 | 54 | 2,209 |
| 2000 | 1,671 | 15,833 | 5,651 | 9,497 | 40,337 | 100 | 35 | 714 |
| 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 | 1,454 |
| 2004 | 7,410 | 103,392 | 26,617 | 20,439 | 37,996 | 124 | 53 | 2,058 |
| 2005 | 26,970 | 99,465 | 42,203 | 106,395 | 150,121 | 161 | 78 | 4,591 |
| 2006 | 30,033 | 61,298 | 34,430 | 56,810 | 343,827 | 160 | 64 | 4,032 |
| 2007 | 17,463 | 70,580 | 19,880 | 39,872 | 177,573 | 147 | 56 | 2,722 |
| 2008 | 14,599 | 35,679 | 34,479 | 18,105 | 81,876 | 171 | 58 | 3,083 |
| 2009 | 2,830 | 36,680 | 30,860 | 27,010 | 190,800 | 151 | 47 | 2,287 |
| 2010 | 2,359 | 32,737 | 42,772 | 58,610 | 51,005 | 146 | 45 | 1,557 |
| 2011 | 5,321 | 51,478 | 20,720 | 65,022 | 142,526 | 150 | 41 | 1,806 |
| 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 | 2,341 |
| 60-15 | 4,325 | 30,359 | 17,953 | 29,006 | 45,990 |  | 39 | 1,375 |
| 06-15 | 11,332 | 37,376 | 30,725 | 46,759 | 158,232 | 141 | 53 | 2,296 |

Appendix B. 3. District 108 total Chinook salmon estimates in the US gillnet, troll, recreational, and subsistence fisheries, 2005-2016.

| See Appendix B4 for estimates of large Stikine fish. |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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 |
| Averages |  |  |  |  |  |  |  |  |  |
| 06-15 | 40 | 20 | 1,958 | 419 | 8,411 | 3,916 | 2,472 | 1,281 | 485 |

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, 2005-2016.
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 | Subsistence | Sport | Gillnet | Troll | Stikine Chinook |
| 2005 | 15 | 3,665 | 21,233 | 2,969 | 27,882 |
| 2006 | 37 | 3,346 | 17,259 | 1,418 | 22,060 |
| 2007 | 36 | 2,218 | 7,057 | 1,574 | 10,885 |
| 2008 | 26 | 1,453 | 4,905 | 951 | 7,335 |
| 2009 | 31 | 887 | 244 | 188 | 1,350 |
| 2010 | 53 | 586 | 238 | 427 | 1,303 |
| 2011 | 61 | 650 | 970 | 463 | 2,145 |
| 2012 | 46 | 608 | 1,209 | 506 | 2,370 |
| 2013 | 41 | 636 | 455 | 434 | 1,566 |
| 2014 | 44 | 697 | 204 | 677 | 1,622 |
| 2015 | 34 | 781 | 378 | 306 | 1,499 |
| 2016 | 20 | 438 | 1,060 | 190 | 1,707 |

Appendix B. 5. Chinook salmon harvest in the Alaskan District 106 and 108 test fisheries, 1984-2016.

| 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 |  |
| 1998 |  |  | 29 |  |
| 1999 |  |  | 21 |  |
| 2000 |  |  |  |  |
| -- |  |  | 113 |  |
| 2009 |  |  |  |  |

Appendix B. 6. Chinook salmon harvest in the Canadian commercial and recreational fisheries in the Stikine River, 1979-2016.

| Year | LRCF |  |  |  |  |  | URCF |  | Telegraph Aboriginal |  | Tahltan sport fishery |  | Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Large | Nonlarge | Large |  | NonLarge |  | Large | Nonlarge | Large | Nonlarge | Large | Nonlarge | Large | Nonlarge |
|  |  |  | Released | morts | Released | morts |  |  |  |  |  |  |  |  |
| 1972 |  |  |  |  |  |  |  |  |  |  |  |  | 0 | 0 |
| 1973 |  |  |  |  |  |  |  |  | 200 |  |  |  | 200 | 0 |
| 1974 |  |  |  |  |  |  |  |  | 100 |  |  |  | 100 | 0 |
| 1975 |  |  |  |  |  |  | 178 |  | 1,024 |  |  |  | 1,202 | 0 |
| 1976 |  |  |  |  |  |  | 236 |  | 924 |  |  |  | 1,160 | 0 |
| 1977 |  |  |  |  |  |  | 62 |  | 100 |  |  |  | 162 | 0 |
| 1978 |  |  |  |  |  |  | 100 |  | 400 |  |  |  | 500 | 0 |
| $1979{ }^{\text {b }}$ | 712 | 63 |  |  |  |  |  |  | 850 |  | 74 | 10 | 1,636 | 73 |
| 1980 | 1,488 |  |  |  |  |  | 156 |  | 587 |  | 136 | 18 | 2,367 | 18 |
| 1981 | 664 |  |  |  |  |  | 154 |  | 586 |  | 213 | 28 | 1,617 | 28 |
| 1982 | 1,693 |  |  |  |  |  | 76 |  | 618 |  | 181 | 24 | 2,568 | 24 |
| 1983 | 492 | 430 |  |  |  |  | 75 |  | 851 | 215 | 38 | 5 | 1,456 | 650 |
| $1984{ }^{\text {c }}$ |  |  |  |  |  |  |  |  | 643 | 59 | 83 | 11 | 726 | 70 |
| 1985 | 256 | 91 |  |  |  |  | 62 |  | 793 | 94 | 92 | 12 | 1,203 | 197 |
| 1986 | 806 | 365 |  |  |  |  | 104 | 41 | 1,026 | 569 | 93 | 12 | 2,029 | 987 |
| 1987 | 909 | 242 |  |  |  |  | 109 | 19 | 1,183 | 183 | 138 | 18 | 2,339 | 462 |
| 1988 | 1,007 | 201 |  |  |  |  | 175 | 46 | 1,178 | 197 | 204 | 27 | 2,564 | 471 |
| 1989 | 1,537 | 157 |  |  |  |  | 54 | 17 | 1,078 | 115 | 132 | 18 | 2,801 | 307 |
| 1990 | 1,569 | 680 |  |  |  |  | 48 | 20 | 633 | 259 | 129 | 17 | 2,379 | 976 |
| 1991 | 641 | 318 |  |  |  |  | 117 | 32 | 753 | 310 | 129 | 17 | 1,640 | 677 |
| 1992 | 873 | 89 |  |  |  |  | 56 | 19 | 911 | 131 | 181 | 24 | 2,021 | 263 |
| 1993 | 830 | 164 |  |  |  |  | 44 | 2 | 929 | 142 | 386 | 52 | 2,189 | 360 |
| 1994 | 1,016 | 158 |  |  |  |  | 76 | 1 | 698 | 191 | 218 | 29 | 2,008 | 379 |
| 1995 | 1,067 | 599 |  |  |  |  | 9 | 17 | 570 | 244 | 107 | 14 | 1,753 | 874 |
| 1996 | 1,708 | 221 |  |  |  |  | 41 | 44 | 722 | 156 | 162 | 22 | 2,633 | 443 |
| 1997 | 3,283 | 186 |  |  |  |  | 45 | 6 | 1,155 | 94 | 188 | 25 | 4,671 | 311 |
| 1998 | 1,614 | 328 |  |  |  |  | 12 | 0 | 538 | 95 | 165 | 22 | 2,329 | 445 |
| 1999 | 2,127 | 789 |  |  |  |  | 24 | 12 | 765 | 463 | 166 | 22 | 3,082 | 1,286 |
| 2000 | 1,970 | 240 |  |  |  |  | 7 | 2 | 1,109 | 386 | 226 | 30 | 3,312 | 658 |
| 2001 | 826 | 59 |  |  |  |  | 0 | 0 | 665 | 44 | 190 | 12 | 1,681 | 115 |
| 2002 | 433 | 209 |  |  |  |  | 2 | 3 | 927 | 366 | 420 | 46 | 1,782 | 624 |
| 2003 | 695 | 672 |  |  |  |  | 19 | 12 | 682 | 373 | 167 | 46 | 1,563 | 1,103 |
| 2004 | 2,481 | 2,070 |  |  |  |  | 0 | 1 | 1,425 | 497 | 91 | 18 | 3,997 | 2,586 |
| 2005 | 19,070 | 1,181 |  |  |  |  | 28 | 1 | 800 | 94 | 118 |  | 20,016 | 1,276 |
| 2006 | 15,098 | 1,955 |  |  |  |  | 22 | 1 | 616 | 122 | 40 |  | 15,776 | 2,078 |
| 2007 | 10,131 | 1,469 |  |  |  |  | 10 | 25 | 364 | 233 | 0 |  | 10,505 | 1,727 |
| 2008 | 7,051 | 908 |  |  |  |  | 40 | 9 | 769 | 150 | 46 |  | 7,906 | 1,067 |
| 2009 | 1,587 | 498 | 339 | 170 | 153 | 77 | 11 | 26 | 496 | 136 | 20 |  | 2,284 | 737 |
| 2010 | 1,209 | 698 | 64 | 32 | 56 | 28 | 16 | 48 | 512 | 232 | 50 |  | 1,819 | 1,006 |
| 2011 | 1,737 | 1,260 | 58 | 29 | 100 | 50 | 2 | 14 | 515 | 218 | 53 | 23 | 2,336 | 1,565 |
| 2012 | 4,054 | 1,043 | 10 | 5 | 53 | 27 | 6 | 0 | 513 | 170 | 64 |  | 4,642 | 1,240 |
| 2013 | 1,086 | 815 | 1 | 1 | 37 | 19 | 8 | 0 | 809 | 508 | 50 |  | 1,954 | 1,341 |
| 2014 | 896 | 511 | 15 | 8 | 8 | 4 | 0 | 0 | 1,020 | 103 | 50 | 0 | 1,974 | 618 |
| 2015 | 3,134 | 1,339 | 0 | 0 | 0 | 0 | 1 | 0 | 1,022 | 198 | 76 | 25 | 4,233 | 1,562 |
| 2016 | 2,116 | 655 | 0 | 0 | 0 | 0 | 0 | 0 | 615 | 139 | 0 | 0 | 2,731 | 794 |
| Averag |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 85-15 | 2,926 | 630 |  |  |  |  | 37 | 14 | 812 | 228 | 134 | 23 | 3,917 | 895 |
| 06-15 | 4,598 | 1,050 |  |  |  |  | 12 | 12 | 664 | 207 | 45 | 16 | 5,343 | 1,294 |

Appendix B. 7. Chinook salmon harvest in inriver test fisheries in the Stikine River, 1985-2016.

| Year | Drift |  | Set |  | Additional drift |  | Commercial license |  | Tuya |  | Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Large | Nonlarge | Large | Nonlarge | Large | Nonlarge | Large | Nonlarge | Large | Nonlarge | Large | Nonlarge |
| 1985 |  |  |  |  |  |  |  |  |  |  | 0 | 0 |
| 1986 | 27 | 12 |  |  |  |  |  |  |  |  | 27 | 12 |
| 1987 | 128 |  | 61 |  |  |  |  |  |  |  | 189 | 0 |
| 1988 | 168 | 14 | 101 | 15 |  |  |  |  |  |  | 269 | 29 |
| 1989 | 116 | 4 | 101 | 20 |  |  |  |  |  |  | 217 | 24 |
| 1990 | 167 | 6 | 64 | 12 |  |  |  |  |  |  | 231 | 18 |
| 1991 | 90 | 1 | 77 | 15 |  |  |  |  |  |  | 167 | 16 |
| 1992 | 135 | 27 | 62 | 21 | 417 | 134 |  |  |  |  | 614 | 182 |
| 1993 | 94 | 11 | 85 | 11 | 389 | 65 |  |  |  |  | 568 | 87 |
| 1994 | 43 | 4 | 74 | 34 | 178 | 40 |  |  |  |  | 295 | 78 |
| 1995 | 18 | 13 | 61 | 35 | 169 | 136 |  |  |  |  | 248 | 184 |
| 1996 | 42 | 5 | 64 | 40 | 192 | 31 |  |  |  |  | 298 | 76 |
| 1997 | 30 | 7 |  |  |  |  |  |  |  |  | 30 | 7 |
| 1998 | 25 | 11 |  |  |  |  |  |  |  |  | 25 | 11 |
| 1999 | 53 | 43 | 49 | 16 | 751 | 38 |  |  |  |  | 853 | 97 |
| 2000 | 59 | 4 | 87 | 0 | 787 | 14 |  |  |  |  | 933 | 18 |
| 2001 | 128 | 3 | 56 | 7 | 1,652 | 49 |  |  |  |  | 1,836 | 59 |
| 2002 | 63 | 50 | 48 | 56 | 1,545 | 217 |  |  |  |  | 1,656 | 323 |
| 2003 | 64 | 62 | 14 | 91 | 1,225 | 617 |  |  |  |  | 1,303 | 770 |
| 2004 | 29 | 41 | 22 | 39 | 0 | 0 |  |  |  |  | 51 | 80 |
| 2005 | 14 | 8 | 19 | 13 | 0 | 0 |  |  |  |  | 33 | 21 |
| 2006 | 0 | 0 | 0 | 0 | 0 | 0 |  |  |  |  | 0 | 0 |
| 2007 | 2 | 0 | 3 | 0 | 0 | 0 |  |  |  |  | 5 | 0 |
| 2008 | 7 | 2 | 6 | 8 | 0 | 0 |  |  | 13 |  | 26 | 10 |
| 2009 | 3 | 0 | 0 | 0 | 0 | 0 |  |  | 29 |  | 32 | 0 |
| 2010 | 2 | 0 | 3 | 1 | 0 | 0 | 1,364 | 140 | 8 | 8 | 1,377 | 149 |
| 2011 | 22 | 28 | 0 | 1 | 0 | 0 | 799 | 219 | 13 | 6 | 834 | 254 |
| 2012 | 54 | 31 | 8 | 8 | 0 | 0 | 467 | 49 | 44 | 5 | 573 | 93 |
| 2013 | 6 | 4 | 4 | 8 | 0 | 0 | 1,406 | 268 | 1 | 19 | 1,417 | 299 |
| 2014 | 18 | 12 | 5 | 6 | 0 | 0 | 1,319 | 127 | 19 | 5 | 1,361 | 150 |
| 2015 | 22 | 23 | 3 | 36 | 0 | 0 | 0 | 0 | 0 | 0 | 25 | 59 |
| 2016 | 16 | 12 | 5 | 4 | 0 | 0 | 483 | 39 | 0 | 0 | 504 | 55 |
| Averages |  |  |  |  |  |  |  |  |  |  |  |  |
| 85-15 | 54 | 15 | 40 | 19 | 332 | 61 |  |  |  |  | 516 | 104 |
| 06-15 | 14 | 10 | 3 | 7 | 0 | 0 |  |  |  |  | 565 | 102 |

Appendix B. 8. Index counts of Stikine River large Chinook salmon escapements, 19792016.

| Year | Above border Run | Canadian harvest | Escapement | $\begin{gathered} \text { U.S. } \\ \text { harvest } \end{gathered}$ | $\begin{gathered} \hline \text { Terminal } \\ \text { Run } \\ \hline \end{gathered}$ | $\%$ to <br> Little Tahltan | Little Tahltan |  | Tahltan <br> Aerial | Beatty <br> Aerial | Andrew <br> Creek | Andrew <br> Comments |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  | 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 | 28,787 |  |  | 0.167 | 4,821 | 1,920 | 772 | 218 | 653 | Heli |
| 1997 | 31,509 | 4,701 | 26,808 |  |  | 0.207 | 5,547 | 1,907 | 260 | 218 | 571 | Foot |
| 1998 | 28,133 | 2,354 | 25,779 |  |  | 0.189 | 4,873 | 1,385 | 587 | 125 | 950 | Foot |
| 1999 | 23,716 | 3,935 | 19,781 |  |  | 0.239 | 4,733 | 1,379 |  |  | 1,180 | Aerial |
| 2000 | 30,301 | 4,245 | 26,056 |  |  | 0.254 | 6,631 | 2,720 |  |  | 1,346 | Aerial |
| 2001 | 66,646 | 3,517 | 63,129 |  |  | 0.154 | 9,730 | 4,258 |  |  | 2,055 | Aerial |
| 2002 | 53,893 | 3,438 | 50,455 | 3,587 | 57,480 | 0.148 | 7,476 | Missed pe | urvey time | to weather | 1,708 | Aerial |
| 2003 | 49,881 | 2,866 | 47,015 | 3,895 | 53,776 | 0.138 | 6,492 | 1,903 |  |  | 1,160 | Foot |
| 2004 | 52,538 | 4,048 | 48,490 | 9,599 | 62,137 | 0.338 | 16,381 | 6,014 |  |  | 2,991 | Foot |
| 2005 | 59,885 | 20,049 | 39,836 | 27,882 | 87,767 | 0.182 | 7,253 |  |  |  | 1,979 | Foot |
| 2006 | 40,181 | 15,776 | 24,405 | 22,060 | 62,241 | 0.158 | 3,860 |  |  |  | 2,124 | Foot |
| 2007 | 25,069 | 10,510 | 14,559 | 10,885 | 35,954 | 0.039 | 562 |  |  |  | 1,736 | Aerial |
| 2008 | 26,284 | 7,932 | 18,352 | 7,335 | 33,619 | 0.145 | 2,663 |  |  |  | 981 | Heli |
| 2009 | 15,118 | 2,316 | 12,803 | 1,350 | 16,468 | 0.175 | 2,245 |  |  |  | 628 | Aerial |
| 2010 | 18,312 | 3,196 | 15,116 | 1,303 | 19,615 | 0.070 | 1,057 |  |  |  | 1,205 | Heli |
| 2011 | 17,652 | 3,170 | 14,482 | 2,145 | 19,797 | 0.073 | 1,058 |  |  |  | 936 | Foot |
| 2012 | 27,542 | 5,215 | 22,327 | 2,370 | 29,912 | 0.032 | 720 |  |  |  | 587 | Heli |
| 2013 | 20,154 | 3,371 | 16,783 | 1,566 | 21,720 | 0.052 | 878 |  |  |  | 920 | Foot |
| $2014{ }^{\text {a }}$ | 27,701 | 3,335 | 24,366 | 1,622 | 29,323 | 0.007 | 169 | 121 | 514 | 15 | 1,261 | Foot |
| 2015 | 25,855 | 4,258 | 21,597 | 1,499 | 27,354 | 0.021 | 450 | 179 | 53 | 30 | 796 | Foot |
| 2016 | 13,789 | 3,235 | 10,554 | 1,707 | 15,496 | 0.087 | 921 | 107 | 95 | 25 | 402 | Foot |
| Averages |  |  |  |  |  |  |  |  |  |  |  |  |
| 06-15 | 24,387 | 5,908 | 18,479 | 5,213 | 29,600 | 0.077 | 1,366 |  |  |  | 1,117 |  |

Appendix B. 9. General stock proportions and harvest of sockeye salmon in the Alaskan commercial gillnet fishery; District $106 \& 108,1982-2016$.

| Estimates based on SPA 1982-2011; GSI 2012 to present. |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | D106 |  | D106-41/42 |  | D106-30 |  | D108 |  |
|  | Other | Total Stikine | Other | Total Stikine | Other | Cotal Stikins | 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 |
| Averages |  |  |  |  |  |  |  |  |
| 83-15 | 0.829 | 0.171 | 0.775 | 0.225 | 0.931 | 0.069 | 0.293 | 0.707 |
| 06-15 | 0.738 | 0.262 | 0.646 | 0.354 | 0.919 | 0.081 | 0.223 | 0.777 |
| 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 |
| Averages |  |  |  |  |  |  |  |  |
| 83-15 | 112,476 | 20,938 | 70,658 | 18,473 | 43,534 | 2,876 | 10,881 | 30,815 |
| 06-15 | 65,155 | 20,900 | 35,975 | 19,047 | 29,180 | 1,854 | 8,518 | 28,858 |

Appendix B. 10. Stikine River stock proportions and harvest of sockeye salmon in the
Alaskan commercial gillnet fishery; Districts 106 \& 108, 1982-2016.

| Estimates based on SPA 1982-2011; GSI 2012 to present. |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | D106 |  |  | D106-41/42 |  |  | D106-30 |  |  | D108 |  |  |
|  | All Tahltar | Tuya | Mainstem | All Tahltan | Tuya | Mainstem | All Tahltan | Tuya | Mainstem | All Tahltan | Tuya | Mainstem |
| 1982 |  |  |  |  |  |  |  |  |  |  |  |  |
| 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 | 0.001 | 0.043 | 0.099 | 0.001 | 0.048 | 0.047 | 0.000 | 0.032 | 0.455 | 0.006 | 0.200 |
| 1996 | 0.166 | 0.028 | 0.007 | 0.228 | 0.039 | 0.009 | 0.008 | 0.001 | 0.001 | 0.622 | 0.069 | 0.125 |
| 1997 | 0.058 | 0.079 | 0.016 | 0.079 | 0.101 | 0.014 | 0.009 | 0.026 | 0.021 | 0.362 | 0.261 | 0.189 |
| 1998 | 0.015 | 0.080 | 0.000 | 0.017 | 0.096 | 0.000 | 0.010 | 0.043 | 0.000 | 0.189 | 0.244 | 0.343 |
| 1999 | 0.057 | 0.061 | 0.118 | 0.074 | 0.079 | 0.128 | 0.018 | 0.020 | 0.095 | 0.414 | 0.201 | 0.205 |
| 2000 | 0.020 | 0.085 | 0.019 | 0.028 | 0.116 | 0.023 | 0.007 | 0.027 | 0.012 | 0.132 | 0.261 | 0.275 |
| 2001 | 0.039 | 0.079 | 0.025 | 0.032 | 0.112 | 0.028 | 0.049 | 0.029 | 0.021 | 0.000 | 0.005 | 0.121 |
| 2002 | 0.037 | 0.072 | 0.035 | 0.049 | 0.087 | 0.034 | 0.009 | 0.039 | 0.037 | 0.000 | 0.000 | 0.005 |
| 2003 | 0.075 | 0.053 | 0.035 | 0.097 | 0.068 | 0.040 | 0.005 | 0.005 | 0.019 | 0.179 | 0.062 | 0.414 |
| 2004 | 0.241 | 0.020 | 0.018 | 0.315 | 0.026 | 0.018 | 0.031 | 0.005 | 0.017 | 0.613 | 0.018 | 0.239 |
| 2005 | 0.182 | 0.000 | 0.027 | 0.227 | 0.000 | 0.029 | 0.041 | 0.000 | 0.020 | 0.437 | 0.000 | 0.257 |
| 2006 | 0.203 | 0.056 | 0.016 | 0.304 | 0.078 | 0.016 | 0.027 | 0.017 | 0.015 | 0.588 | 0.081 | 0.135 |
| 2007 | 0.322 | 0.082 | 0.005 | 0.403 | 0.099 | 0.005 | 0.028 | 0.021 | 0.007 | 0.474 | 0.147 | 0.067 |
| 2008 | 0.165 | 0.238 | 0.152 | 0.168 | 0.336 | 0.169 | 0.158 | 0.033 | 0.118 | 0.352 | 0.291 | 0.159 |
| 2009 | 0.215 | 0.090 | 0.077 | 0.287 | 0.104 | 0.068 | 0.016 | 0.050 | 0.103 | 0.360 | 0.225 | 0.232 |
| 2010 | 0.047 | 0.051 | 0.026 | 0.084 | 0.088 | 0.036 | 0.005 | 0.011 | 0.015 | 0.356 | 0.178 | 0.234 |
| 2011 | 0.094 | 0.066 | 0.050 | 0.146 | 0.098 | 0.065 | 0.005 | 0.013 | 0.025 | 0.445 | 0.142 | 0.216 |
| 2012 | 0.046 | 0.073 | 0.072 | 0.070 | 0.111 | 0.091 | 0.002 | 0.003 | 0.034 | 0.171 | 0.204 | 0.475 |
| 2013 | 0.068 | 0.060 | 0.118 | 0.099 | 0.089 | 0.156 | 0.008 | 0.007 | 0.047 | 0.180 | 0.125 | 0.440 |
| 2014 | 0.053 | 0.031 | 0.031 | 0.090 | 0.053 | 0.043 | 0.006 | 0.003 | 0.015 | 0.335 | 0.140 | 0.315 |
| 2015 | 0.038 | 0.046 | 0.030 | 0.064 | 0.077 | 0.041 | 0.002 | 0.004 | 0.015 | 0.294 | 0.132 | 0.276 |
| 2016 | 0.119 | 0.040 | 0.044 | 0.172 | 0.058 | 0.052 | 0.006 | 0.001 | 0.027 | 0.583 | 0.123 | 0.145 |
| Averages |  |  |  |  |  |  |  |  |  |  |  |  |
| 83-15 | 0.088 | 0.064 | 0.041 | 0.118 | 0.088 | 0.047 | 0.024 | 0.017 | 0.033 | 0.302 | 0.133 | 0.315 |
| 06-15 | 0.125 | 0.079 | 0.058 | 0.172 | 0.113 | 0.069 | 0.026 | 0.016 | 0.039 | 0.355 | 0.167 | 0.255 |
| 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 | 125 | 8,839 | 13,292 | 125 | 6,448 | 3,423 | 0 | 2,391 | 34,950 | 461 | 15,330 |
| 1996 | 51,598 | 8,821 | 2,189 | 50,924 | 8,731 | 2,113 | 674 | 90 | 76 | 95,837 | 10,621 | 19,319 |
| 1997 | 9,764 | 13,232 | 2,756 | 9,327 | 11,937 | 1,692 | 437 | 1,295 | 1,064 | 33,644 | 24,288 | 17,574 |
| 1998 | 1,678 | 9,020 | 36 | 1,326 | 7,555 | 31 | 352 | 1,465 | 5 | 4,170 | 5,383 | 7,561 |
| 1999 | 5,986 | 6,424 | 12,399 | 5,421 | 5,782 | 9,405 | 563 | 641 | 2,993 | 15,156 | 7,371 | 7,497 |
| 2000 | 1,827 | 7,612 | 1,706 | 1,617 | 6,727 | 1,317 | 210 | 885 | 389 | 2,097 | 4,138 | 4,353 |
| 2001 | 6,339 | 12,965 | 4,119 | 3,164 | 11,063 | 2,777 | 3,175 | 1,902 | 1,342 | 0 | 3 | 74 |
| 2002 | 2,055 | 4,058 | 1,962 | 1,896 | 3,394 | 1,325 | 159 | 664 | 637 | 0 | 0 | 1 |
| 2003 | 8,736 | 6,145 | 4,039 | 8,595 | 6,016 | 3,501 | 141 | 129 | 538 | 7,562 | 2,615 | 17,455 |
| 2004 | 28,027 | 2,382 | 2,058 | 27,098 | 2,244 | 1,532 | 929 | 138 | 526 | 63,347 | 1,869 | 24,666 |
| 2005 | 20,080 | 0 | 2,968 | 18,979 | 0 | 2,447 | 1,101 | 0 | 521 | 43,467 | 0 | 25,595 |
| 2006 | 18,640 | 5,122 | 1,427 | 17,729 | 4,553 | 933 | 911 | 569 | 494 | 36,021 | 4,944 | 8,272 |
| 2007 | 29,759 | 7,612 | 484 | 29,196 | 7,182 | 342 | 563 | 430 | 142 | 33,439 | 10,398 | 4,716 |
| 2008 | 5,031 | 7,261 | 4,651 | 3,467 | 6,936 | 3,483 | 1,564 | 325 | 1,168 | 12,547 | 10,365 | 5,659 |
| 2009 | 24,085 | 10,080 | 8,640 | 23,623 | 8,589 | 5,583 | 462 | 1,491 | 3,057 | 13,188 | 8,271 | 8,508 |
| 2010 | 5,231 | 5,775 | 2,882 | 4,959 | 5,210 | 2,105 | 272 | 565 | 776 | 11,645 | 5,811 | 7,651 |
| 2011 | 13,750 | 9,693 | 7,323 | 13,454 | 8,972 | 5,954 | 296 | 721 | 1,368 | 22,916 | 7,307 | 11,127 |
| 2012 | 2,108 | 3,338 | 3,259 | 2,079 | 3,292 | 2,718 | 29 | 46 | 541 | 3,760 | 4,492 | 10,443 |
| 2013 | 3,326 | 2,978 | 5,810 | 3,192 | 2,866 | 5,013 | 134 | 112 | 797 | 3,720 | 2,582 | 9,065 |
| 2014 | 3,103 | 1,815 | 1,792 | 2,954 | 1,734 | 1,399 | 149 | 80 | 394 | 6,631 | 2,781 | 6,231 |
| 2015 | 4,676 | 5,652 | 3,699 | 4,562 | 5,460 | 2,925 | 114 | 193 | 773 | 6,728 | 3,033 | 6,326 |
| 2016 | 12,733 | 4,287 | 4,673 | 12,532 | 4,262 | 3,765 | 202 | 26 | 908 | 40,868 | 8,605 | 10,148 |
| Averages |  |  |  |  |  |  |  |  |  |  |  |  |
| 83-15 | 11,521 | 6,196 | 4,968 | 10,962 | 5,637 | 3,692 | 1,054 | 559 | 1,444 | 17,087 | 5,559 | 9,962 |
| 06-15 | 10,971 | 5,933 | 3,997 | 10,522 | 5,479 | 3,046 | 449 | 453 | 951 | 15,060 | 5,998 | 7,800 |

Appendix B. 11. Tahltan sockeye salmon stock proportions and harvest of in the Alaskan commercial gillnet fishery; Districts 106 \& 108, 1994-2016.

| Estimates based on SPA through 2011; GSI 2012 to present. |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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 |
| Averages |  |  |  |  |  |  |  |  |  |  |  |  |
| 94-15 | 0.107 | 0.044 | 0.063 | 0.142 | 0.061 | 0.081 | 0.025 | 0.005 | 0.020 | 0.333 | 0.133 | 0.200 |
| 06-15 | 0.125 | 0.061 | 0.064 | 0.172 | 0.088 | 0.084 | 0.026 | 0.004 | 0.021 | 0.355 | 0.171 | 0.184 |
| 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 | 4,091 | 1,680 | 2,411 | 4,703 | 1,920 | 2,783 | 75 | 38 | 37 | 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 |
| Averages |  |  |  |  |  |  |  |  |  |  |  |  |
| 94-15 | 13,264 | 4,822 | 8,442 | 12,416 | 4,630 | 7,786 | 879 | 205 | 674 | 22,093 | 8,411 | 13,683 |
| 06-15 | 10,912 | 5,342 | 5,570 | 10,536 | 5,253 | 5,282 | 445 | 116 | 329 | 15,060 | 7,682 | 7,378 |

Appendix B. 12. Stikine River sockeye salmon harvest in the U.S. Subsistence fishery, 2004-2016.
Stocks were proportioned based on using inriver stock comps

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

Appendix B. 13. Stock proportions of sockeye salmon in the Alaskan District 106 and 108 test fisheries, 1984-2016.

| Year | Alaska | Canada | Stikine |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | All Tahltan | Tuya | Mainstem | Total | thltanEnhans | 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 of sockeye salmon in Canadian commercial and assessment fisheries, 1972-2016.

| 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 Assesment | Test total | ESSR | Oto samples | ESSR | to sampl |
| 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 | 0 | 1,865 |  | 0 |  | 0 |
| 2016 | 75,739 | 333 | 10,644 | 86,716 | 460 | 1,287 | 13 | 0 | 1,760 |  | 173 |  | 0 |
| Averages |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 85-15 | 36,681 | 932 | 5,440 | 43,053 | 419 | 1,332 |  |  | 2,471 |  |  |  |  |
| 06-15 | 44,275 | 869 | 6,077 | 51,221 | 388 | 1,219 |  |  | 3,126 |  | 217 |  | 142 |

Appendix B. 15. Sockeye salmon stock proportions and harvest by stock in the Canadian commercial and assessment fishery in the Stikine River, 1979-2016.

| Year | All Tahltan | $\begin{aligned} & \hline \text { LRCF } \\ & \hline \text { Tuya } \\ & \hline \end{aligned}$ | Mainstem | All Tahltan | $\begin{gathered} \text { URCF } \\ \hline \text { Tuya } \\ \hline \end{gathered}$ | Mainstem | Telegraph Aboriginal |  |  | LRTF |  |  | Tuya Assessment |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  | All Tahltan | Tuya | Mainstem | All Tahlan | Tuya | Mainstem | All Tahlan | Tuya | Mainstem |
| 1972 |  |  |  |  |  |  | 0.900 | 0.000 | 0.100 |  |  |  |  |  |  |
| 1973 |  |  |  |  |  |  | 0.900 | 0.000 | 0.100 |  |  |  |  |  |  |
| 1974 |  |  |  |  |  |  | 0.900 | 0.000 | 0.100 |  |  |  |  |  |  |
| 1975 |  |  |  | 0.900 | 0.000 | 0.100 | 0.900 | 0.000 | 0.100 |  |  |  |  |  |  |
| 1976 |  |  |  | 0.900 | 0.000 | 0.100 | 0.900 | 0.000 | 0.100 |  |  |  |  |  |  |
| 1977 |  |  |  | 0.900 | 0.000 | 0.100 | 0.900 | 0.000 | 0.100 |  |  |  |  |  |  |
| 1978 |  |  |  | 0.900 | 0.000 | 0.100 | 0.900 | 0.000 | 0.100 |  |  |  |  |  |  |
| 1979 | 0.433 |  | 0.567 |  |  |  | 0.900 | 0.000 | 0.100 |  |  |  |  |  |  |
| 1980 | 0.309 |  | 0.691 | 0.900 | 0.000 | 0.100 | 0.900 | 0.000 | 0.100 |  |  |  |  |  |  |
| 1981 | 0.476 |  | 0.524 | 0.900 | 0.000 | 0.100 | 0.900 | 0.000 | 0.100 |  |  |  |  |  |  |
| 1982 | 0.624 |  | 0.376 | 0.900 | 0.000 | 0.100 | 0.900 | 0.000 | 0.100 |  |  |  |  |  |  |
| 1983 | 0.422 |  | 0.578 | 0.900 | 0.000 | 0.100 | 0.900 | 0.000 | 0.100 |  |  |  |  |  |  |
| 1984 |  |  |  |  |  |  | 0.900 | 0.000 | 0.100 |  |  |  |  |  |  |
| 1985 | 0.623 |  | 0.377 | 0.900 | 0.000 | 0.100 | 0.900 | 0.000 | 0.100 | 0.372 |  | 0.628 |  |  |  |
| 1986 | 0.489 |  | 0.511 | 0.900 | 0.000 | 0.100 | 0.900 | 0.000 | 0.100 | 0.352 |  | 0.648 |  |  |  |
| 1987 | 0.225 |  | 0.775 | 0.900 | 0.000 | 0.100 | 0.900 | 0.000 | 0.100 | 0.273 |  | 0.727 |  |  |  |
| 1988 | 0.161 |  | 0.839 | 0.900 | 0.000 | 0.100 | 0.900 | 0.000 | 0.100 | 0.282 |  | 0.718 |  |  |  |
| 1989 | 0.164 |  | 0.836 | 0.900 | 0.000 | 0.100 | 0.900 | 0.000 | 0.100 | 0.258 |  | 0.742 |  |  |  |
| 1990 | 0.346 |  | 0.654 | 0.900 | 0.000 | 0.100 | 0.900 | 0.000 | 0.100 | 0.454 |  | 0.546 |  |  |  |
| 1991 | 0.634 |  | 0.366 | 0.900 | 0.000 | 0.100 | 0.900 | 0.000 | 0.100 | 0.608 |  | 0.392 |  |  |  |
| 1992 | 0.482 |  | 0.518 | 0.900 | 0.000 | 0.100 | 0.900 | 0.000 | 0.100 | 0.646 |  | 0.354 |  |  |  |
| 1993 | 0.537 |  | 0.463 | 0.900 | 0.000 | 0.100 | 0.900 | 0.000 | 0.100 | 0.583 |  | 0.417 |  |  |  |
| 1994 | 0.616 |  | 0.384 | 0.900 | 0.000 | 0.100 | 0.900 | 0.000 | 0.100 | 0.857 |  | 0.143 |  |  |  |
| 1995 | 0.676 | 0.020 | 0.304 | 0.900 | 0.025 | 0.075 | 0.900 | 0.025 | 0.075 | 0.803 | 0.008 | 0.189 |  |  |  |
| 1996 | 0.537 | 0.113 | 0.350 | 0.858 | 0.136 | 0.005 | 0.839 | 0.141 | 0.021 | 0.667 | 0.088 | 0.245 |  |  |  |
| 1997 | 0.356 | 0.272 | 0.372 | 0.524 | 0.379 | 0.097 | 0.521 | 0.378 | 0.101 | 0.396 | 0.220 | 0.384 |  |  |  |
| 1998 | 0.335 | 0.352 | 0.313 | 0.400 | 0.570 | 0.030 | 0.421 | 0.555 | 0.023 | 0.368 | 0.268 | 0.363 |  |  |  |
| 1999 | 0.576 | 0.241 | 0.183 | 0.574 | 0.330 | 0.096 | 0.623 | 0.292 | 0.085 | 0.514 | 0.265 | 0.221 |  |  |  |
| 2000 | 0.252 | 0.397 | 0.350 | 0.252 | 0.654 | 0.094 | 0.284 | 0.653 | 0.063 | 0.254 | 0.413 | 0.333 |  |  |  |
| 2001 | 0.175 | 0.226 | 0.599 | 0.437 | 0.470 | 0.092 | 0.342 | 0.561 | 0.097 | 0.208 | 0.282 | 0.510 |  |  |  |
| 2002 | 0.320 | 0.128 | 0.552 | 0.376 | 0.496 | 0.128 | 0.422 | 0.494 | 0.084 | 0.391 | 0.157 | 0.451 |  |  |  |
| 2003 | 0.427 | 0.161 | 0.412 | 0.696 | 0.220 | 0.084 | 0.605 | 0.238 | 0.157 | 0.448 | 0.128 | 0.424 |  |  |  |
| 2004 | 0.707 | 0.016 | 0.276 | 0.861 | 0.067 | 0.072 | 0.909 | 0.089 | 0.002 | 0.512 | 0.033 | 0.455 |  |  |  |
| 2005 | 0.761 | 0.018 | 0.221 | 0.962 | 0.021 | 0.017 | 0.956 | 0.013 | 0.031 | 0.542 | 0.005 | 0.453 |  |  |  |
| 2006 | 0.747 | 0.178 | 0.075 | 0.852 | 0.133 | 0.015 | 0.780 | 0.131 | 0.089 | 0.355 | 0.014 | 0.631 |  |  |  |
| 2007 | 0.635 | 0.191 | 0.173 | 0.658 | 0.043 | 0.299 | 0.643 | 0.042 | 0.316 | 0.262 | 0.076 | 0.662 |  |  |  |
| 2008 | 0.470 | 0.389 | 0.141 | 0.719 | 0.186 | 0.095 | 0.729 | 0.183 | 0.088 | 0.385 | 0.266 | 0.348 | 0.278 | 0.489 | 0.233 |
| 2009 | 0.601 | 0.250 | 0.149 | 0.668 | 0.303 | 0.029 | 0.686 | 0.281 | 0.033 | 0.323 | 0.187 | 0.490 | 0.220 | 0.714 | 0.067 |
| 2010 | 0.456 | 0.356 | 0.188 | 0.565 | 0.428 | 0.007 | 0.570 | 0.413 | 0.017 | 0.258 | 0.108 | 0.634 | 0.427 | 0.512 | 0.061 |
| 2011 | 0.495 | 0.212 | 0.293 | 0.678 | 0.288 | 0.034 | 0.670 | 0.284 | 0.046 | 0.268 | 0.154 | 0.578 | 0.343 | 0.568 | 0.089 |
| 2012 | 0.274 | 0.250 | 0.476 | 0.460 | 0.529 | 0.011 | 0.475 | 0.491 | 0.033 | 0.242 | 0.315 | 0.443 | 0.091 | 0.883 | 0.026 |
| 2013 | 0.347 | 0.193 | 0.460 | 0.578 | 0.279 | 0.143 | 0.505 | 0.290 | 0.205 | 0.236 | 0.016 | 0.748 | 0.136 | 0.722 | 0.142 |
| 2014 | 0.547 | 0.243 | 0.210 | 0.564 | 0.379 | 0.057 | 0.584 | 0.353 | 0.064 | 0.450 | 0.243 | 0.306 | 0.490 | 0.480 | 0.030 |
| 2015 | 0.444 | 0.290 | 0.266 | 0.812 | 0.186 | 0.002 | 0.804 | 0.194 | 0.002 | 0.516 | 0.312 | 0.172 |  |  |  |
| 2016 | 0.687 | 0.166 | 0.147 | 0.812 | 0.186 | 0.002 | 0.804 | 0.194 | 0.002 | 0.539 | 0.182 | 0.279 |  |  |  |
| Averages |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 79-14 | 0.461 |  | 0.422 | 0.746 | 0.168 | 0.086 | 0.751 | 0.159 | 0.090 |  |  |  |  |  |  |
| 05-14 | 0.533 | 0.228 | 0.239 | 0.670 | 0.259 | 0.071 | 0.660 | 0.248 | 0.092 | 0.332 | 0.138 | 0.529 |  |  |  |
| 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 | 893 | 13,881 | 2,120 | 60 | 176 | 4,941 | 139 | 410 | 2,064 | 20 | 486 |  |  |  |
| 1996 | 35,584 | 7,465 | 23,213 | 945 | 150 | 6 | 5,802 | 972 | 144 | 875 | 116 | 321 |  |  |  |
| 1997 | 20,269 | 15,513 | 21,213 | 1,152 | 834 | 213 | 3,318 | 2,403 | 644 | 97 | 54 | 94 |  |  |  |
| 1998 | 12,498 | 13,137 | 11,675 | 363 | 517 | 27 | 2,352 | 3,103 | 131 | 70 | 51 | 69 |  |  |  |
| 1999 | 18,742 | 7,862 | 5,952 | 359 | 206 | 60 | 3,038 | 1,423 | 413 | 3,031 | 1,564 | 1,301 |  |  |  |
| 2000 | 5,165 | 8,136 | 7,171 | 224 | 581 | 84 | 1,733 | 3,989 | 385 | 605 | 982 | 791 |  |  |  |
| 2001 | 3,482 | 4,483 | 11,907 | 213 | 229 | 45 | 1,795 | 2,939 | 507 | 684 | 924 | 1,673 |  |  |  |
| 2002 | 3,335 | 1,335 | 5,750 | 182 | 240 | 62 | 2,697 | 3,155 | 538 | 1,726 | 694 | 1,992 |  |  |  |
| 2003 | 22,067 | 8,335 | 21,333 | 316 | 100 | 38 | 3,987 | 1,571 | 1,037 | 1,505 | 428 | 1,423 |  |  |  |
| 2004 | 54,841 | 1,276 | 21,415 | 539 | 42 | 45 | 6,240 | 608 | 14 | 686 | 44 | 608 |  |  |  |
| 2005 | 60,881 | 1,437 | 17,634 | 582 | 13 | 10 | 5,099 | 71 | 163 | 895 | 8 | 748 |  |  |  |
| 2006 | 71,573 | 17,079 | 7,139 | 443 | 69 | 8 | 3,974 | 668 | 452 | 329 | 13 | 586 |  |  |  |
| 2007 | 36,167 | 10,891 | 9,855 | 600 | 39 | 273 | 1,406 | 91 | 691 | 290 | 84 | 734 |  |  |  |
| 2008 | 13,455 | 11,153 | 4,028 | 363 | 94 | 48 | 3,287 | 825 | 398 | 428 | 296 | 387 | 543 | 956 | 455 |
| 2009 | 23,666 | 9,852 | 5,891 | 1,654 | 749 | 73 | 3,530 | 1,449 | 169 | 434 | 251 | 657 | 471 | 1,530 | 144 |
| 2010 | 19,185 | 14,965 | 7,899 | 687 | 520 | 9 | 4,145 | 3,004 | 127 | 453 | 190 | 1,114 | 1,192 | 1,429 | 171 |
| 2011 | 23,530 | 10,106 | 13,939 | 659 | 280 | 33 | 4,620 | 1,957 | 316 | 841 | 482 | 1,813 | 988 | 1,634 | 257 |
| 2012 | 7,102 | 6,485 | 12,352 | 215 | 248 | 5 | 1,901 | 1,966 | 133 | 434 | 566 | 796 | 210 | 2,036 | 60 |
| 2013 | 8,430 | 4,679 | 11,182 | 506 | 244 | 126 | 3,804 | 2,183 | 1,540 | 313 | 21 | 992 | 292 | 1,547 | 305 |
| 2014 | 16,678 | 7,418 | 6.391 | 309 | 207 | 31 | 5,809 | 3,508 | 634 | 805 | 435 | 547 | 433 | 424 | 26 |
| 2015 | 22,924 | 15,000 | 13,736 | 119 | 76 | 7 | 4,780 | 3,239 | 165 | 962 | 582 | 321 |  |  |  |
| 2016 | 52,021 | 12,568 | 11,151 | 270 | 62 | 1 | 8.561 | 2,062 | 21 | 949 | 320 | 492 |  |  |  |
| Averages |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 79-15 | 17,799 |  | 11,120 | 660 |  | 73 | 3,741 |  | 424 |  |  |  |  |  |  |
| 06-15 | 24,271 | 10,763 | 9,241 | 556 | 253 | 61 | 3,726 | 1,889 | 463 | 529 | 292 | 795 |  |  |  |

Appendix B. 16. Tahltan sockeye salmon stock proportions and harvest by stock in the Canadian commercial and assessment fishery in the Stikine River, 1979-2016.


Appendix B. 17. Tahltan Lake weir data with enhanced and wild Tahltan fish, 19792016.

|  | Weir count |  |  | Actual escapement |  |  | Broodstock taken |  |  | Sockeye otolith samples |  |  | Total spawners |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Total Count | TahltanEnha | VildTahltan | TotalEs capement | TahltanEnhance | WildTahltan | Total | TahltanEnhance | WildTahltan | Total | TahltanEnhance W | WildTahltan | Total | TahltanEnhance | WildTahitan |
| 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 | 39,745 | 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 | 14,970 | 23,661 | 38,458 | 14,918 | 23,540 | 4,315 | 1,672 | 2,643 | 173 | 52 | 121 | 34,143 | 13,245 | 20,898 |
| 4verages |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 06-15 | 27,639 | 11,637 | 16,002 | 27,421 | 11,552 | 15,869 | 3,456 | 1,550 | 1,905 | 217 | 85 | 133 | 23,966 | 10,002 | 13,964 |

Appendix B. 18. Sockeye salmon harvest by stock in the Stikine River under Canadian ESSR licenses, 1992-2016.

| Year | Tahltan Area ESSR License |  |  | Tuya Area ESSR |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | All Tahltan | TahltanEnh | ildTahltan | 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 |  |  |  |  |  |  |

Appendix B. 19. Estimated proportion of inriver run comprised of Tahltan, Tuya, and mainstem sockeye salmon, 1979-2016.

| Year | All Tahltan | Tuya | Mainstem | 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 | 0.016 | 0.406 | LRCF |
| 1996 | 0.519 | 0.104 | 0.377 | LRCF |
| 1997 | 0.297 | 0.229 | 0.474 | LRCF |
| 1998 | 0.309 | 0.348 | 0.344 | LRCF |
| 1999 | 0.545 | 0.245 | 0.209 | LRCF |
| 2000 | 0.260 | 0.391 | 0.349 | LRCF |
| 2001 | 0.202 | 0.268 | 0.530 | test |
| 2002 | 0.360 | 0.141 | 0.498 | test |
| 2003 | 0.421 | 0.158 | 0.421 | test |
| 2004 | 0.664 | 0.026 | 0.311 | LRCF |
| 2005 | 0.662 | 0.020 | 0.318 | LRCF |
| 2006 | 0.672 | 0.144 | 0.185 | LRCF |
| 2007 | 0.541 | 0.165 | 0.294 | LRCF |
| 2008 | 0.385 | 0.326 | 0.289 | LRCF |
| 2009 | 0.541 | 0.244 | 0.215 | average |
| 2010 | 0.417 | 0.289 | 0.294 | average |
| 2011 | 0.467 | 0.205 | 0.328 | LRCF |
| 2012 | 0.246 | 0.262 | 0.492 | average |
| 2013 | 0.346 | 0.166 | 0.489 | average |
| 2014 | 0.523 | 0.255 | 0.223 | average |
| 2015 | 0.435 | 0.279 | 0.286 | LRCF |
| 2016 | 0.611 | 0.144 | 0.245 | LRCF |
| Averages |  |  |  |  |
| 79-15 | 0.441 |  | 0.444 |  |
| 06-15 | 0.457 | 0.233 | 0.309 |  |

Appendix B. 20. Aerial survey counts of Mainstem sockeye salmon stocks in the Stikine River drainage, 1984-2016.


Appendix B. 21. Stikine River sockeye salmon run size, 1979-2016. $\frac{\text { Harvest includes test and assesment fisheries and otolith samples and escapement includes fish later captured for broodstock }}{\text { Stikine River }}$

| Year | Stikine River |  |  |  |  | All Tahilan |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Above border | Canadian |  | U.S. | Terminal | Above bord | Canadian |  | U.S. | Terminal |
|  | Run | Harvest | Escapement | Harvest | Run | Run | Harvest | Escapement | Harvest | Run |
| 1979 | 40,353 | 13,534 | 26,819 | 8,299 | 48,652 | 17,472 | 7,261 | 10,211 | 5,076 | 22,548 |
| 1980 | 62,743 | 20,919 | 41,824 | 23,206 | 85,949 | 19,137 | 8,119 | 11,018 | 11,239 | 30,376 |
| 1981 | 138,879 | 27,017 | 111,862 | 27,538 | 166,417 | 65,968 | 15,178 | 50,790 | 16,189 | 82,157 |
| 1982 | 68,761 | 20,540 | 48,221 | 42,482 | 111,243 | 42,493 | 14,236 | 28,257 | 20,981 | 63,474 |
| 1983 | 71,683 | 21,120 | 50,563 | 5,774 | 77,457 | 32,684 | 11,428 | 21,256 | 5,075 | 37,759 |
| 1984 | 76,211 | 5,327 | 70,884 | 7,750 | 83,961 | 37,571 | 4,794 | 32,777 | 3,114 | 40,685 |
| 1985 | 184,747 | 26,804 | 157,943 | 29,747 | 214,494 | 86,008 | 18,682 | 67,326 | 25,197 | 111,205 |
| 1986 | 69,036 | 17,846 | 51,190 | 6,420 | 75,456 | 31,015 | 10,735 | 20,280 | 2,757 | 33,771 |
| 1987 | 39,264 | 11,283 | 27,981 | 4,077 | 43,342 | 11,923 | 4,965 | 6,958 | 2,255 | 14,178 |
| 1988 | 41,915 | 16,538 | 25,377 | 3,181 | 45,096 | 7,222 | 4,686 | 2,536 | 2,129 | 9,351 |
| 1989 | 75,058 | 21,639 | 53,419 | 15,492 | 90,550 | 14,111 | 5,795 | 8,316 | 1,561 | 15,672 |
| 1990 | 57,529 | 19,964 | 37,565 | 9,856 | 67,385 | 23,982 | 9,055 | 14,927 | 2,307 | 26,289 |
| 1991 | 120,153 | 25,138 | 95,015 | 31,284 | 151,437 | 67,394 | 17,259 | 50,135 | 21,916 | 89,311 |
| 1992 | 154,541 | 29,242 | 125,299 | 77,394 | 231,935 | 76,680 | 16,773 | 59,907 | 28,218 | 104,899 |
| 1993 | 176,100 | 52,698 | 123,402 | 104,630 | 280,730 | 84,068 | 32,458 | 51,610 | 40,036 | 124,104 |
| 1994 | 127,527 | 53,380 | 74,147 | 80,509 | 208,036 | 77,239 | 37,728 | 39,511 | 65,101 | 142,340 |
| 1995 | 142,308 | 66,777 | 75,531 | 76,420 | 218,728 | 82,290 | 50,713 | 31,577 | 51,665 | 133,955 |
| 1996 | 184,400 | 90,148 | 94,252 | 188,385 | 372,785 | 95,706 | 57,545 | 38,161 | 147,435 | 243,141 |
| 1997 | 125,657 | 68,197 | 57,460 | 101,258 | 226,915 | 37,319 | 25,214 | 12,105 | 43,408 | 80,727 |
| 1998 | 90,459 | 50,486 | 39,973 | 30,989 | 121,448 | 27,941 | 15,673 | 12,268 | 7,086 | 35,027 |
| 1999 | 65,879 | 47,202 | 18,677 | 58,765 | 124,644 | 35,918 | 25,599 | 10,319 | 23,449 | 59,367 |
| 2000 | 53,145 | 31,535 | 21,610 | 25,359 | 78,504 | 13,803 | 8,133 | 5,670 | 5,340 | 19,143 |
| 2001 | 103,755 | 29,341 | 74,414 | 23,500 | 127,255 | 20,985 | 6,224 | 14,761 | 6,339 | 27,324 |
| 2002 | 71,253 | 22,607 | 48,646 | 8,076 | 79,329 | 25,680 | 8,340 | 17,340 | 2,055 | 27,735 |
| 2003 | 194,425 | 69,571 | 124,854 | 46,552 | 240,977 | 81,808 | 28,275 | 53,533 | 16,298 | 98,106 |
| 2004 | 189,395 | 88,451 | 100,944 | 122,592 | 311,987 | 125,677 | 62,725 | 62,952 | 91,535 | 217,213 |
| 2005 | 167,570 | 88,089 | 79,482 | 92,362 | 259,932 | 110,903 | 67,857 | 43,046 | 63,714 | 174,617 |
| 2006 | 193,768 | 102,733 | 91,035 | 74,817 | 268,585 | 130,174 | 76,719 | 53,455 | 54,923 | 185,097 |
| 2007 | 110,132 | 61,472 | 48,660 | 86,654 | 196,786 | 59,537 | 38,663 | 20,874 | 63,330 | 122,867 |
| 2008 | 74,267 | 37,097 | 37,170 | 45,942 | 120,209 | 28,592 | 18,176 | 10,416 | 17,743 | 46,335 |
| 2009 | 111,780 | 51,082 | 60,699 | 73,495 | 185,275 | 60,428 | 30,104 | 30,324 | 37,664 | 98,092 |
| 2010 | 116,354 | 55,471 | 60,883 | 40,647 | 157,001 | 48,521 | 25,819 | 22,702 | 17,565 | 66,086 |
| 2011 | 139,541 | 61,947 | 77,594 | 73,857 | 213,399 | 65,226 | 30,978 | 34,248 | 37,480 | 102,706 |
| 2012 | 95,840 | 34,922 | 60,918 | 28,700 | 124,540 | 23,550 | 10,087 | 13,463 | 6,188 | 29,738 |
| 2013 | 84,380 | 36,371 | 48,009 | 29,136 | 113,515 | 29,173 | 13,345 | 15,828 | 7,618 | 36,791 |
| 2014 | 129,442 | 44,056 | 81,892 | 23,881 | 153,323 | 71,167 | 24,434 | 43,239 | 10,533 | 78,206 |
| 2015 | 142,334 | 61,911 | 80,423 | 31,958 | 174,292 | 61,944 | 28,785 | 33,159 | 12,207 | 74,151 |
| 2016 | 164,451 | 88,649 | 75,802 | 83,441 | 247,892 | 100,431 | 61,973 | 38,458 | 54,900 | 155,331 |
| Averages |  |  |  |  |  |  |  |  |  |  |
| 79-15 | 110,556 | 42,769 | 67,693 | 47,594 | 158,151 | 52,198 | 23,583 | 28,520 | 26,398 | 78,501 |
| 06-15 | 119,784 | 54,706 | 64,728 | 50,909 | 170,693 | 57,831 | 29,711 | 27,771 | 26,525 | 84,007 |
| Stikine Mainstem |  |  |  |  |  | Tuya |  |  |  |  |
|  | Above border | Canadian |  | U.S. | Terminal | Above bord | Canadian |  | U.S. | Terminal |
| Year | Run | Harvest | Escapement | Harvest | Run | Run | Harvest | Excess | Harvest |  |
| 1979 | 22,880 | 6,273 | 16,608 | 3,223 | 26,103 |  |  |  |  |  |
| 1980 | 43,606 | 12,800 | 30,806 | 11,967 | 55,573 |  |  |  |  |  |
| 1981 | 72,911 | 11,839 | 61,072 | 11,349 | 84,260 |  |  |  |  |  |
| 1982 | 26,267 | 6,304 | 19,964 | 21,501 | 47,768 |  |  |  |  |  |
| 1983 | 38,999 | 9,692 | 29,307 | 699 | 39,698 |  |  |  |  |  |
| 1984 | 38,640 | 533 | 38,107 | 4,636 | 43,276 |  |  |  |  |  |
| 1985 | 98,739 | 8,122 | 90,617 | 4,550 | 103,289 |  |  |  |  |  |
| 1986 | 38,022 | 7,111 | 30,910 | 3,663 | 41,685 |  |  |  |  |  |
| 1987 | 27,342 | 6,318 | 21,023 | 1,822 | 29,164 |  |  |  |  |  |
| 1988 | 34,693 | 11,852 | 22,841 | 1,052 | 35,745 |  |  |  |  |  |
| 1989 | 60,947 | 15,844 | 45,103 | 13,931 | 74,878 |  |  |  |  |  |
| 1990 | 33,547 | 10,909 | 22,638 | 7,549 | 41,096 |  |  |  |  |  |
| 1991 | 52,759 | 7,879 | 44,880 | 9,368 | 62,126 |  |  |  |  |  |
| 1992 | 77,861 | 12,469 | 65,392 | 49,176 | 127,037 |  |  |  |  |  |
| 1993 | 92,033 | 20,240 | 71,792 | 64,594 | 156,627 |  |  |  |  |  |
| 1994 | 50,288 | 15,652 | 34,636 | 15,408 | 65,696 |  |  |  |  |  |
| 1995 | 57,802 | 14,953 | 42,850 | 24,169 | 81,971 | 2,216 | 1,112 | 1,104 | 586 | 2,802 |
| 1996 | 69,536 | 23,684 | 45,852 | 21,508 | 91,044 | 19,158 | 8,919 | 10,239 | 19,442 | 38,600 |
| 1997 | 59,600 | 22,164 | 37,436 | 20,330 | 79,930 | 28,738 | 20,819 | 7,919 | 37,520 | 66,258 |
| 1998 | 31,077 | 11,902 | 19,175 | 7,962 | 39,039 | 31,442 | 22,911 | 8,531 | 15,941 | 47,383 |
| 1999 | 13,797 | 7,726 | 6,071 | 20,092 | 33,889 | 16,165 | 13,877 | 2,288 | 15,224 | 31,389 |
| 2000 | 18,563 | 8,431 | 10,132 | 6,764 | 25,327 | 20,779 | 14,971 | 5,808 | 13,255 | 34,034 |
| 2001 | 54,987 | 14,132 | 40,855 | 4,193 | 59,180 | 27,783 | 8,985 | 18,798 | 12,968 | 40,751 |
| 2002 | 35,496 | 8,342 | 27,154 | 1,963 | 37,459 | 10,078 | 5,925 | 4,153 | 4,058 | 14,136 |
| 2003 | 81,803 | 23,831 | 57,972 | 21,494 | 103,297 | 30,814 | 17,465 | 13,349 | 8,760 | 39,574 |
| 2004 | 58,809 | 22,080 | 36,728 | 26,799 | 85,608 | 4,909 | 3,645 | 1,264 | 4,257 | 9,166 |
| 2005 | 53,343 | 18,555 | 34,788 | 28,517 | 81,860 | 3,325 | 1,677 | 1,648 | 131 | 3,456 |
| 2006 | 35,788 | 8,185 | 27,603 | 9,772 | 45,560 | 27,806 | 17,829 | 9,977 | 10,122 | 37,928 |
| 2007 | 32,418 | 11,553 | 20,865 | 5,274 | 37,692 | 18,176 | 11,256 | 6,920 | 18,050 | 36,227 |
| 2008 | 21,494 | 5,316 | 16,178 | 10,434 | 31,928 | 24,180 | 13,604 | 10,576 | 17,765 | 41,945 |
| 2009 | 24,082 | 6,933 | 17,148 | 17,304 | 41,385 | 27,271 | 14,044 | 13,226 | 18,527 | 45,798 |
| 2010 | 34,152 | 9,320 | 24,831 | 11,018 | 45,169 | 33,682 | 20,332 | 13,350 | 12,064 | 45,746 |
| 2011 | 45,750 | 16,357 | 29,393 | 19,021 | 64,771 | 28,565 | 14,612 | 13,953 | 17,356 | 45,921 |
| 2012 | 47,158 | 13,347 | 33,812 | 14,340 | 61,498 | 25,132 | 11,489 | 13,643 | 8,172 | 33,304 |
| 2013 | 41,236 | 14,144 | 27,091 | 15,684 | 56,920 | 13,972 | 8,882 | 5,090 | 5,833 | 19,805 |
| 2014 | 25,315 | 7,630 | 17,685 | 8,363 | 37,172 | 32,961 | 11,992 | 20,969 | 4,984 | 37,945 |
| 2015 | 40,661 | 14,229 | 26,432 | 10,552 | 51,212 | 39,729 | 18,897 | 20,832 | 9,200 | 48,929 |
| 2016 | 40,310 | 11,665 | 28,646 | 15,343 | 55,653 | 23,709 | 15,011 | 8,698 | 13,199 | 36,908 |
| Averages |  |  |  |  |  |  |  |  |  |  |
| 79-15 | 45,741 | 12,072 | 33,669 | 14,325 | 60,160 |  |  |  |  |  |
| 06-15 | 34,805 | 10,701 | 24,104 | 12,176 | 47,331 | 27,147 | 14,294 | 12,854 | 12,207 | 39,355 |

Appendix B. 22. Tahltan wild and enhanced sockeye salmon run size, 1994-2016.

| Year | All Tahltan |  |  |  |  | EnhancedTahltan |  |  |  |  | WildTahltan |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Above border Run | Canadian Harvest | Escapement | U.S. <br> Harvest | $\begin{gathered} \text { Terminal } \\ \text { Run } \\ \hline \end{gathered}$ | Above bord Run | Canadian Harvest | Escapement | U.S. <br> Harvest | $\begin{gathered} \text { Terminal } \\ \text { Run } \end{gathered}$ | $\begin{aligned} & \hline \text { Above border } \\ & \text { Run } \end{aligned}$ | Canadian Harvest | Escapement | U.S. <br> Harvest | $\begin{gathered} \text { Terminal } \\ \text { Run } \end{gathered}$ |
| 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 | 64,179 | 24,434 | 39,745 | 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 | 5,203 | 31,602 | 35,545 | 18,590 | 16,955 | 7,106 | 42,651 |
| 2016 | 100,431 | 61,973 | 38,458 | 54,900 | 155,331 | 33,232 | 18,314 | 14,918 | 18,189 | 51,421 | 67,200 | 43,659 | 23,540 | 36,711 | 103,910 |
| Averages |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $\underline{06-15}$ | 57,132 | 29,711 | 27,421 | 26,525 | 84,007 | 24,193 | 12,641 | 11,552 | 13,240 | 37,434 | 32,939 | 17,070 | 15,869 | 13,295 | 46,234 |

Appendix B. 23. Coho salmon harvest in the Alaskan District 106 and 108 test fisheries, 1984-2016.
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 |  |  | 0 |  |
| 1994 |  |  |  |  |
| --- |  |  | 12 | 217 |
| 1998 |  |  | 140 |  |
| 1999 |  |  |  |  |
| 2000 |  |  |  |  |
| -- |  |  |  |  |
| 2009 |  |  |  |  |

Appendix B. 24. Annual harvest of coho salmon in the Canadian lower and upper river commercial, Telegraph Aboriginal and the Canadian test fisheries, 1979-2016.

| Year | Commercial |  |  | URCF | Telegraph Aboriginal | Canada total Stikine harvest | Test |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 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 |
| Averages |  |  |  |  |  |  |  |  |  |  |
| 85-15 | 2,708 |  |  | 0 | 2 | 2,683 | 203 | 302 | 121 | 545 |
| 06-15 | 4,360 |  |  | 0 | 0 | 4,347 | 262 | 243 | 0 | 505 |

Appendix B. 25. Index counts of Stikine River coho salmon escapements, 1984-2016.

|  | Katete |  |  |  | Bronson | Scud |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year Date | West | Katete | Craig | Verrett | Slough | Slough | Porcupine | Christina | Total |
| 1984 10/30 | 147 | 313 | 0 | 15 | 42 |  |  |  | 517 |
| 1985 10/25 | 590 | 1,217 | 735 | 39 | 0 | 924 | 365 |  | 3,870 |
| 1988 10/28 | 32 | 227 |  | 175 |  | 97 | 53 | 0 | 584 |
| 1989 10/29 | 336 | 896 | 992 | 848 | 120 | 707 | 90 | 55 | 4,044 |
| 1990 10/30 | 94 | 548 | 810 | 494 |  | 664 | 430 |  | 3,040 |
| 1991 10/29 | 302 | 878 | 985 | 218 |  | 221 | 352 |  | 2,956 |
| 1992 10/29 | 295 | 1,346 | 949 | 320 |  | 462 | 316 |  | 3,688 |
| 1993 10/30 |  |  |  |  |  | 206 | 324 |  |  |
| 1994 11/1-2 | 28 | 652 | 1,026 | 466 |  | 448 | 1,105 |  | 3,725 |
| 1995 10/30 | 211 | 208 | 1,419 | 574 |  | 621 | 719 |  | 3,752 |
| 1996 10/30 | 163 | 232 | 205 | 549 |  | 630 | 1,466 |  | 3,245 |
| 1997 11/01 | 2 | 0 | 19 | 116 |  | 272 | 648 |  | 1,057 |
| 1998 10/30 | 14 | 63 | 141 | 282 |  | 143 | 450 |  | 1,093 |
| 1999 11/05 | 163 | 773 | 891 | 490 |  | 661 | 894 |  | 3,872 |
| 2000 11/2-3 |  |  |  | 5 |  | 95 | 206 |  | 306 |
| 2001 11/2-3 | 207 | 1,401 | 3,121 | 708 |  | 1,571 | 397 |  | 7,405 |
| 2002 11/05 | 806 | 2,642 | 4,488 | 1,695 |  | 1,389 | 1,626 |  | 12,646 |
| 2003 |  |  |  |  |  |  |  |  |  |
| 2004 ${ }^{\text {a }} 11 / 03$ | 78 | 762 | 19 | 959 |  | 173 | 1,009 |  | 3,000 |
| 2005 10/31 | 300 | 1,195 | 444 | 353 |  | 218 | 689 |  | 3,199 |
| 2006 11/02 | 350 | 543 | 675 | 403 |  | 95 | 147 |  | 2,213 |
| 2007 11/10 | 66 | 190 | 567 | 240 |  | 153 | 341 |  | 1,557 |
| 2008 ${ }^{\text {b }} 11 / 01-05$ |  |  | 535 | 501 |  | 86 | 25 |  | 1,147 |
| 2009 11/02 | 212 | 698 | 475 | 257 |  | 16 | 617 |  | 2,275 |
| 2010 11/03 ${ }^{\text {a }}$ | 37 | 237 | 31 | 363 |  | 130 | 953 |  | 1,751 |
| 2011 11/04 | 182 | 689 | 459 | 309 |  | 437 | 468 |  | 2,542 |
| 2012 11/05 ${ }^{\text {c }}$ | aborted | aborted | aborted | aborted |  | 3 | 336 |  |  |
| 2013 11/05 | 449 | 191 | 675 | 249 |  | 23 | 53 |  | 1,640 |
| 2014 11/06 | 7 | 255 | 212 | 74 |  | 138 | 509 |  | 1,195 |
| 2015 11/07 | 15 | 168 | 608 | 66 |  | 61 | 263 |  | 1,181 |
| 2016 11/03 | 0 | 0 | 10 | 152 |  | 90 | 40 |  | 292 |
| Average |  |  |  |  |  |  |  |  |  |
| 84-15 | 203 | 653 | 819 | 399 |  | 380 | 530 |  | 2,870 |
| 06-15 | 165 | 371 | 471 | 274 |  | 114 | 371 |  | 1,722 |

[^1]Appendix B. 26. Effort in the Canadian fisheries, including assessment fisheries in the Stikine River, 1979-2016.

| Chinook assessment/test fishery prosecuted with the commercial fleet |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Commercial license$\underline{\text { Chinook assessment }}$ |  | LRCF |  | URCF |  | Test Fisheries |  |
|  |  |  | Days | Permit Days | Days | PermitDays | standard test fisheries |  |
|  | Days | Permit Days |  |  |  |  | \# of Drift | Set <br> hours |
| 1979 |  |  | 42.0 | 756 |  |  |  |  |
| 1980 |  |  | 41.0 | 668 |  |  |  |  |
| 1981 |  |  | 32.0 | 522 | 5.0 | 11.0 |  |  |
| 1982 |  |  | 71.0 | 1,063 | 4.0 | 8.0 |  |  |
| 1983 |  |  | 54.0 | 434 | 8.0 | 10.0 |  |  |
| 1984 | no fisheries |  |  |  |  |  |  |  |
| 1985 |  |  | 22.5 | 146 | 6.0 | 14.0 |  |  |
| 1986 |  |  | 13.5 | 239 | 7.0 | 19.0 | 405 |  |
| 1987 |  |  | 20.0 | 287 | 7.0 | 20.0 | 845 | 1,456 |
| 1988 |  |  | 26.5 | 320 | 6.5 | 21.5 | 720 | 1,380 |
| 1989 |  |  | 23.0 | 325 | 7.0 | 14.0 | 870 | 1,392 |
| 1990 |  |  | 29.0 | 328 | 7.0 | 15.0 | 673 | 1,212 |
| 1991 |  |  | 39.0 | 282 | 6.0 | 13.0 | 509 | 1,668 |
| 1992 |  |  | 55.0 | 235 | 13.0 | 28.0 | 312 | 1,249 |
| 1993 |  |  | 58.0 | 484 | 22.0 | 48.0 | 304 | 1,224 |
| 1994 |  |  | 74.0 | 430 | 50.0 | 68.0 | 175 | 456 |
| 1995 |  |  | 59.0 | 534 | 25.0 | 54.0 | 285 | 888 |
| 1996 |  |  | 81.0 | 439 | 59.0 | 75.0 | 245 | 312 |
| 1997 |  |  | 89.0 | 569 | 29.0 | 42.0 | 210 |  |
| 1998 |  |  | 46.5 | 374 | 19.0 | 19.0 | 820 |  |
| 1999 |  |  | 31.0 | 261 | 18.0 | 19.0 | 1,006 | 1,577 |
| 2000 |  |  | 23.3 | 227 | 9.3 | 19.8 | 694 | 3,715 |
| 2001 |  |  | 23.0 | 173 | 4.0 | 6.0 | 883 | 2,688 |
| 2002 |  |  | 21.0 | 169 | 9.0 | 12.0 | 898 | 2,845 |
| 2003 |  |  | 28.8 | 275 | 10.0 | 10.0 | 660 | 1,116 |
| 2004 |  |  | 43.0 | 431 | 11.0 | 11.0 | 778 | 524 |
| 2005 |  |  | 72.0 | 803 | 13.0 | 13.0 | 780 | 396 |
| 2006 |  |  | 68.7 | 775 | 15.0 | 15.0 | 720 | 312 |
| 2007 |  |  | 67.5 | 767 | 17.0 | 17.0 | 224 | 336 |
| 2008 |  |  | 55.0 | 566 | 13.0 | 13.0 | 730 | 396 |
| 2009 |  |  | 57.5 | 563 | 27.0 | 28.0 | 771 | 342 |
| 2010 | 8 | 94 | 37.3 | 349 | 12.0 | 15.0 | 860 | 468 |
| 2011 | 3 | 57 | 44.7 | 641 | 9.0 | 12.0 | 882 | 335 |
| 2012 | 1 | 18 | 36.6 | 19.6 | 6.0 | 12.0 | 936 | 239 |
| 2013 | 9 | 100 | 25.4 | 430.8 | 6.0 | 6.0 | 294 | 408 |
| 2014 | 8 | 94 | 28.2 | 280.0 | 4.0 | 4.0 | 315 | 696 |
| 2015 | 0 | 0 | 31.0 | 530.0 | 9.0 | 4.0 | 308 | 192 |
| 2016 | 1 | 18 | 46.9 | 696 | 18.0 | 3.0 | 322 | 396 |
| Averages |  |  |  |  |  |  |  |  |
| 85-15 |  |  | 43 | 395 | 15 | 22 | 604 | 1,030 |
| 06-15 |  |  | 45 | 492 | 12 | 13 | 604 | 372 |

Appendix B. 27. Counts of adult sockeye salmon migrating through Tahltan Lake weir, 1959-2016.


Appendix B. 28. Estimates of sockeye salmon smolt migrating through Tahltan Lake smolt weir, 1984-2016.

| Year | $\begin{aligned} & \text { Weir } \\ & \text { Installed } \end{aligned}$ | Date of Arrival |  |  | Total <br> Count | Total <br> Estimate | Date and Expansion | Smolt |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | First | 50\% | 90\% |  |  |  | Natural | Hatchery |
| 1984 | 10-May | 11-May | 23-May | 06-Jun |  | 218,702 |  |  |  |
| 1985 | 25-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 |
| Averages |  |  |  |  |  |  |  |  |  |
| 84-15 | 06-May | 11-May | 23-May | 02-Jun |  | 1,245,122 |  | 909,485 | 514,347 |
| 06-15 | 07-May | 13-May | 23-May | 31-May |  | 1,427,120 |  | 898,280 | 528,840 |

${ }^{a}$ 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.
${ }^{c}$ Estimate of $1,439,673$ on June 13 expanded by average \% of outmigration by date ( $96.8 \%$ ) from historical data.
${ }^{d}$ Estimate of $1,516,150$ on June 14 expanded by average \% of outmigration by date ( $97.5 \%$ ) from historical data.

Appendix B. 29. Weir counts of Chinook salmon at Little Tahltan River, 1985-2016.

| Year | Weir Installed | Date of Arrival |  |  | Total <br> Count | Broodstock and Other | Natural 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 |  |
| Averages |  |  |  |  |  |  |  |  |
| 85-15 | 21-Jun | 28-Jun | 21-Jul | 01-Aug | 4,765 |  | 4,762 |  |
| 06-15 | 21-Jun | 04-Jul | 24-Jul | 02-Aug | 1,436 | 0 | 1,436 |  |
| 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 | $05-\mathrm{Jul}$ | 22-Jul | 30-Jul | 417 |  | 417 |  |
| 1991 | 23-Jun | $03-\mathrm{Jul}$ | 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 | $04-\mathrm{Jul}$ | 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 |  |
| Averages |  |  |  |  |  |  |  |  |
| 85-15 | 21-Jun | 03-Jul | 23-Jul | 03-Aug | 213 |  | 213 |  |
| 06-15 | 22-Jun | 11-Jul | 24-Jul | 01-Aug | 152 |  | 152 |  |

${ }^{2}$ Landslide mortality estimate of Little Tahltan Chinook salmon $70 \%$ of reduction of $12 \%$ of harvest in FN fishery

Appendix C. 1. Weekly Chinook salmon estimates in the U.S. fisheries in D111, 2016.


Appendix C. 2. Weekly Chinook salmon abundance estimates of above border run and harvest in the Canadian fisheries in the Taku River 2016.

|  | Above | Commercial |  | Assesment/Test fishery |  | Aboriginal |  | Rec | Total large Harvest | Spawning <br> Escapement |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| SW | Border Run | Large | nonlarge | Large | nonlarge | Large | nonlarge |  |  |  |
| 19 |  |  |  | 119 | 7 |  |  |  | 119 |  |
| 20 |  |  |  | 208 | 39 |  |  |  | 208 |  |
| 21 |  |  |  | 201 | 22 |  |  |  | 201 |  |
| 22 |  |  |  | 242 | 39 |  |  |  | 242 |  |
| 23 | 6,544 |  |  | 251 | 37 |  |  |  | 251 |  |
| 24 |  |  |  |  |  |  |  |  | 0 |  |
| 25 | 11,447 |  |  |  |  |  |  |  | 0 |  |
| 26 | 11,901 | 106 | 41 |  |  |  |  |  | 106 |  |
| 27 | 14,869 | 185 | 65 |  |  |  |  |  | 185 |  |
| 28 |  | 115 | 35 |  |  |  |  |  | 115 |  |
| 29 | 14,517 | 45 | 16 |  |  |  |  |  | 45 |  |
| 30 |  | 22 | 10 |  |  |  |  |  | 22 |  |
| 31 |  | 18 | 14 |  |  |  |  |  | 18 |  |
| 32 |  | 12 | 10 |  |  |  |  |  | 12 |  |
| 33 |  | 3 | 3 |  |  |  |  |  |  |  |
| 34 |  | 1 | 1 |  |  |  |  |  |  |  |
| 35 |  | 1 |  |  |  |  |  |  |  |  |
| Inse | Estimate | 508 | 195 | 1,021 | 144 |  |  |  | 1,529 |  |
| Postseason estimate |  |  |  |  |  |  |  |  |  |  |
|  | 14,011 | 508 | 195 | 1,021 | 144 | 91 | 10 | 10 | 1,630 | 12,381 |

Appendix C. 3. Weekly sockeye salmon harvest of Alaskan D111 traditional and terminal hatchery access common property commercial drift gillnet fishery, 2016.

| SW | D111 Commercial gillnet |  |  |  |  |  | Amalga Seine111-55 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Gillnet | Traditional Stat Area specific harvests |  |  |  | Speel Arm SHA |  |
|  | D111 Total | 111-32 | 111-31/90 | 111-20 | 111-34 | 111-33 |  |
| 25 | 0 |  |  |  |  |  |  |
| 26 | 1,721 | 1,587 | 134 |  |  |  |  |
| 27 | 3,471 | 3,271 | 200 |  |  |  |  |
| 28 | 3,963 | 3,709 | 254 |  |  |  |  |
| 29 | 5,387 | 4,187 | 1,200 |  |  |  | 340 |
| 30 | 23,160 | 20,268 | 2,892 |  |  |  | 1,507 |
| 31 | 14,382 | 11,085 | 3,297 |  |  |  | 837 |
| 32 | 47,511 | 41,238 | 6,273 |  |  |  |  |
| 33 | 65,418 | 8,563 | 5,879 |  | 13,163 | 37,813 |  |
| 34 | 26,939 | 8,228 | 1,563 |  | 1,571 | 15,577 |  |
| 35 | 18,633 | 3,967 | 1,815 |  | 2,558 | 10,293 |  |
| 36 | 4,307 | 1,090 | 168 |  |  | 3,049 |  |
| 37 | 135 | 117 | 18 |  |  |  |  |
| 38 | 18 | 17 | 1 |  |  |  |  |
| 39 | 4 | 4 |  |  |  |  |  |
| 40 | 0 |  |  |  |  |  |  |
| 41 | 0 |  |  |  |  |  |  |
| Total | 215,049 | 107,331 | 23,694 | 0 | 17,292 | 66,732 | 2,684 |

Appendix C. 4. Weekly stock proportions of sockeye salmon harvested in the Alaskan District 111 traditional commercial drift gillnet fishery, 2016.

| SW | D111 Commercial gillnet |  |  |  |  |  |  |  |  |  |  |  | Amalga seine |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Taku harvest proportions |  |  |  |  |  | Total <br> Taku | Wild Snet/ other | U.S. <br> Enhanced | Stikine <br> Enhanced | Total <br> Enhanced | Total <br> Wild | Taku |  |
|  |  |  |  |  | King Salmon Enhanced | $\begin{aligned} & \hline \text { Taku } \\ & \text { Wild } \\ & \hline \end{aligned}$ |  |  |  |  |  |  |  |  |
|  | Taku Lakes | Mainstem | Wild | Enhanced |  |  |  |  |  |  |  |  | Wild | Enhance |
| 25 |  |  |  |  |  | 0.000 | 0.000 |  |  |  | 0.000 | 0.000 |  |  |
| 26 | 0.688 | 0.201 | 0.000 | 0.000 | 0.025 | 0.889 | 0.914 | 0.049 | 0.000 | 0.037 | 0.062 | 0.938 |  |  |
| 27 | 0.621 | 0.273 | 0.000 | 0.003 | 0.050 | 0.894 | 0.946 | 0.046 | 0.000 | 0.008 | 0.060 | 0.940 |  |  |
| 28 | 0.551 | 0.326 | 0.000 | 0.000 | 0.060 | 0.877 | 0.938 | 0.030 | 0.033 | 0.000 | 0.093 | 0.907 |  |  |
| 29 | 0.292 | 0.353 | 0.036 | 0.010 | 0.016 | 0.681 | 0.706 | 0.059 | 0.229 | 0.005 | 0.260 | 0.740 |  |  |
| 30 | 0.160 | 0.344 | 0.095 | 0.026 | 0.004 | 0.599 | 0.629 | 0.117 | 0.254 | 0.000 | 0.285 | 0.715 |  |  |
| 31 | 0.074 | 0.210 | 0.152 | 0.042 | 0.002 | 0.436 | 0.481 | 0.032 | 0.486 | 0.002 | 0.532 | 0.468 |  |  |
| 32 | 0.025 | 0.282 | 0.219 | 0.075 | 0.000 | 0.525 | 0.599 | 0.031 | 0.369 | 0.000 | 0.444 | 0.556 |  |  |
| 33 | 0.017 | 0.199 | 0.119 | 0.040 | 0.000 | 0.335 | 0.375 | 0.057 | 0.568 | 0.000 | 0.608 | 0.392 |  |  |
| 34 | 0.009 | 0.176 | 0.134 | 0.038 | 0.000 | 0.319 | 0.357 | 0.053 | 0.590 | 0.000 | 0.628 | 0.372 |  |  |
| 35 | 0.001 | 0.153 | 0.148 | 0.037 | 0.000 | 0.303 | 0.340 | 0.049 | 0.611 | 0.000 | 0.649 | 0.351 |  |  |
| 36 | 0.001 | 0.153 | 0.148 | 0.037 | 0.000 | 0.303 | 0.340 | 0.049 | 0.611 | 0.000 | 0.649 | 0.351 |  |  |
| 37 | 0.001 | 0.153 | 0.148 | 0.037 | 0.000 | 0.303 | 0.340 | 0.049 | 0.611 | 0.000 | 0.649 | 0.351 |  |  |
| 38 | 0.001 | 0.153 | 0.148 | 0.037 | 0.000 | 0.303 | 0.340 | 0.049 | 0.611 | 0.000 | 0.649 | 0.351 |  |  |
| 39 | 0.001 | 0.153 | 0.148 | 0.037 | 0.000 | 0.303 | 0.340 | 0.049 | 0.611 | 0.000 | 0.649 | 0.351 |  |  |
| 40 | 0.001 | 0.153 | 0.148 | 0.037 | 0.000 | 0.303 | 0.340 | 0.049 | 0.611 | 0.000 | 0.649 | 0.351 |  |  |
| 41 | 0.001 | 0.153 | 0.148 | 0.037 | 0.000 | 0.303 | 0.340 | 0.049 | 0.611 | 0.000 | 0.649 | 0.351 |  |  |
| Total | 0.102 | 0.264 | 0.145 | 0.046 | 0.005 | 0.511 | 0.562 | 0.054 | 0.383 | 0.001 | 0.435 | 0.565 |  | 0.000 |
| 25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  | 0 |
| 26 | 1,184 | 346 | 0 | 0 | 42 | 1,530 | 1,573 | 84 | 0 | 64 | 107 | 1,614 |  | 0 |
| 27 | 2,156 | 946 | 0 | 9 | 173 | 3,102 | 3,284 | 161 | 0 | 26 | 208 | 3,263 |  | 0 |
| 28 | 2,182 | 1,294 | 1 | 0 | 239 | 3,476 | 3,716 | 117 | 130 | 0 | 369 | 3,594 |  | 0 |
| 29 | 1,574 | 1,901 | 194 | 52 | 84 | 3,669 | 3,806 | 318 | 1,235 | 28 | 1,400 | 3,987 |  | 0 |
| 30 | 3,695 | 7,972 | 2,194 | 607 | 102 | 13,861 | 14,570 | 2,702 | 5,887 | 1 | 6,596 | 16,563 |  | 0 |
| 31 | 1,070 | 3,024 | 2,182 | 608 | 28 | 6,276 | 6,912 | 459 | 6,983 | 28 | 7,647 | 6,735 |  | 0 |
| 32 | 1,167 | 13,375 | 10,388 | 3,551 | 1 | 24,929 | 28,481 | 1,488 | 17,541 | 1 | 21,094 | 26,417 |  | 0 |
| 33 | 240 | 2,880 | 1,718 | 571 | 1 | 4,837 | 5,409 | 829 | 8,202 | 2 | 8,775 | 5,666 |  | 0 |
| 34 | 85 | 1,728 | 1,309 | 375 | 1 | 3,121 | 3,496 | 519 | 5,773 | 2 | 6,150 | 3,640 |  | 0 |
| 35 | 4 | 887 | 858 | 214 | 1 | 1,749 | 1,964 | 281 | 3,535 | 1 | 3,751 | 2,030 |  | 0 |
| 36 | 1 | 193 | 187 | 47 | 0 | 381 | 427 | 61 | 769 | 0 | 816 | 442 |  | 0 |
| 37 | 0 | 21 | 20 | 5 | 0 | 41 | 46 | 7 | 83 | 0 | 88 | 47 |  | 0 |
| 38 | 0 | 3 | 3 | 1 | 0 | 5 | 6 | 1 | 11 | 0 | 12 | 6 |  | 0 |
| 39 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 3 | 1 |  | 0 |
| 40 | 0 | 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 |  | 0 |
| Total | 13,357 | 34,570 | 19,053 | 6,039 | 671 | 66,980 | 73,690 | 7,027 | 50,150 | 154 | 57,014 | 74,007 |  | 0 |

Appendix C. 5. Weekly sockeye salmon abundance estimates of above border run and harvest in the Canadian fisheries in the Taku River, 2016.

| Based on postseason mark-recapture estimate apportioned by fish wheel CPUE. |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| SW | Above Border <br> Run | Commercial |  | $\begin{gathered} \text { Assesment/ } \\ \text { Test } \\ \hline \end{gathered}$ | Aboriginal | Above <br> Border <br> Escapement |
|  |  |  |  |  |  |  |
|  |  | All | Taku |  |  |  |
| 22 |  |  |  |  |  |  |
| 23 |  |  |  | 1 |  |  |
| 24 |  |  |  |  | 4 |  |
| 25 |  |  |  |  |  |  |
| 26 | 10,885 | 450 | 441 |  |  |  |
| 27 | 8,261 | 2,014 | 2,003 |  |  |  |
| 28 | 11,630 | 2,727 | 2,727 |  | 7 |  |
| 29 | 20,742 | 3,462 | 3,444 |  | 2 |  |
| 30 | 9,722 | 1,469 | 1,469 |  | 1 |  |
| 31 | 27,006 | 3,689 | 3,650 |  | 6 |  |
| 32 | 30,455 | 5,671 | 5,671 |  |  |  |
| 33 | 30,567 | 6,384 | 6,346 |  |  |  |
| 34 | 34,024 | 5,212 | 5,181 |  | 167 |  |
| 35 | 15,044 | 3,538 | 3,517 |  |  |  |
| 36 | 10,628 | 2,179 | 2,166 |  | 1 |  |
| 37 | 2,955 | 497 | 494 |  |  |  |
| 38 |  | 9 | 9 | 73 |  |  |
| 39 |  |  |  | 41 | 1 |  |
| 40 |  |  |  | 8 | 2 |  |
| Postseaso | 213,851 | 37,301 | 37,120 | 123 | 191 | 176,417 |
| Expanded | 213,851 | 37,301 | 37,120 | 123 | 191 | 176,417 |

Appendix C. 6. Estimates of wild and enhanced sockeye salmon stock harvested in the
Canadian commercial fishery in the Taku River by week, 2016.


Appendix C. 7. Weekly coho salmon harvest in the traditional Alaskan District 111 and StatArea 111-32 (Taku Inlet), commercial drift gillnet fishery, 2016.

| SW | D111 Total |  |  | 111-32 |
| :---: | :---: | :---: | :---: | :---: |
|  | Total | Hatchery | Wild |  |
| 25 |  |  | 0 |  |
| 26 | 59 |  | 59 | 56 |
| 27 | 246 |  | 246 | 205 |
| 28 | 398 |  | 398 | 234 |
| 29 | 1,538 |  | 1,538 | 498 |
| 30 | 1,710 |  | 1,710 | 943 |
| 31 | 982 |  | 982 | 633 |
| 32 | 1,879 |  | 1,879 | 1,578 |
| 33 | 2,287 |  | 2,287 | 771 |
| 34 | 2,400 |  | 2,400 | 2,063 |
| 35 | 5,118 |  | 5,118 | 3,336 |
| 36 | 6,760 | 3,723 | 3,037 | 5,978 |
| 37 | 4,831 | 1,278 | 3,553 | 4,007 |
| 38 | 3,454 | 818 | 2,636 | 3,402 |
| 39 | 1,863 | 1,336 | 527 | 1,857 |
| 40 | 870 | 171 | 699 | 870 |
| 41 | 50 | 30 | 20 | 50 |
| Total | 34,445 | 7,356 | 27,089 | 26,481 |

Appendix C. 8. Weekly coho salmon abundance estimates of above border run and harvest in the Canadian fisheries in the Taku River, 2016.

| SW | Above border Run | Harvest |  |  |  | Above border Escapement |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Commercial | Aboriginal | Recreational | Assesment/test |  |
| 18 |  |  |  |  |  |  |
| 19 |  |  |  |  |  |  |
| 20 |  |  |  |  |  |  |
| 21 |  |  |  |  |  |  |
| 22 |  |  |  |  |  |  |
| 23 |  |  |  |  |  |  |
| 24 |  |  |  |  |  |  |
| 25 |  |  |  |  |  |  |
| 26 |  |  |  |  |  |  |
| 27 |  | 3 | 2 |  |  |  |
| 28 |  | 37 | 1 |  |  |  |
| 29 |  | 114 |  |  |  |  |
| 30 |  | 136 |  |  |  |  |
| 31 |  | 210 | 1 |  |  |  |
| 32 |  | 747 |  |  |  |  |
| 33 |  | 736 |  |  |  |  |
| 34 | 20,888 | 813 | 39 |  |  |  |
| 35 | 27,730 | 1,238 |  |  |  |  |
| 36 | 35,803 | 2,072 |  |  |  |  |
| 37 | 47,768 | 1,424 |  |  |  |  |
| 38 | 57,802 | 275 |  |  | 339 |  |
| 39 | 68,646 | 653 | 3 |  | 664 |  |
| 40 | 85,951 | 778 |  |  | 504 |  |
| 41 | 99,224 | 230 |  |  | 500 |  |
| 42 |  |  | 1 |  |  |  |
| Before SW34 |  | 1,983 |  |  |  |  |
| SW34 to end |  | 7,483 |  |  |  |  |
| Postseason Estimate | 99,224 | 9,466 | 47 | 0 | 2,007 | 87,704 |

Appendix C. 9. Weekly effort in the Alaskan traditional District 111 and StatArea 11132 (Taku Inlet), commercial drift gillnet fishery, 2016.

| SW | Start <br> Date | D111 |  |  | D111-32 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Boats | Days <br> Open | Boat <br> Days | Boats | Days <br> Open | Boat <br> Days |
| 25 | 12-Jun |  |  | 0 |  |  | 0 |
| 26 | 19-Jun | 29 | 2.0 | 58 | 28 | 2.0 | 56 |
| 27 | 26-Jun | 47 | 3.0 | 141 | 46 | 3.0 | 138 |
| 28 | 3-Jul | 54 | 3.0 | 162 | 50 | 2.0 | 100 |
| 29 | 10-Jul | 70 | 4.0 | 280 | 57 | 3.0 | 171 |
| 30 | 17-Jul | 103 | 4.0 | 412 | 89 | 3.0 | 267 |
| 31 | 24-Jul | 76 | 4.0 | 304 | 62 | 3.0 | 186 |
| 32 | 31-Jul | 69 | 4.0 | 276 | 65 | 4.0 | 260 |
| 33 | 7-Aug | 114 | 4.0 | 456 | 53 | 4.0 | 212 |
| 34 | 14-Aug | 52 | 3.0 | 156 | 43 | 3.0 | 129 |
| 35 | 21-Aug | 54 | 3.0 | 162 | 35 | 3.0 | 105 |
| 36 | 28-Aug | 43 | 3.0 | 129 | 36 | 3.0 | 108 |
| 37 | 4-Sep | 34 | 3.0 | 102 | 30 | 3.0 | 90 |
| 38 | 11-Sep | 27 | 4.0 | 108 | 25 | 4.0 | 100 |
| 39 | 18-Sep | 15 | 4.0 | 60 | 14 | 4.0 | 56 |
| 40 | 25-Sep | 10 | 4.0 | 40 | 10 | 4.0 | 40 |
| 41 | 2-Oct | 1 | 4.0 | 4 | 1 | 4.0 | 4 |
| Total |  |  | 56.0 | 2,850 |  | 52.0 | 2,022 |

Appendix C. 10. Weekly effort in the Canadian commercial and assessment fisheries in the Taku River, 2016.

| SW |  | Commercial |  |  | Assesment/test |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Start <br> Date | Average Permits | $\begin{array}{r} \text { Days } \\ \text { Fished } \\ \hline \end{array}$ | $\begin{array}{r} \text { Permit } \\ \text { Days } \\ \hline \end{array}$ | Average Permits | $\begin{gathered} \text { Days } \\ \text { Fished } \\ \hline \end{gathered}$ | $\begin{array}{r} \text { Permit } \\ \text { Days } \\ \hline \end{array}$ |
| 18 | 24-Apr |  |  |  |  |  |  |
| 19 | 1-May |  |  |  | 4.00 | 1.00 | 4.00 |
| 20 | 8-May |  |  |  | 4.33 | 2.25 | 9.75 |
| 21 | 15-May |  |  |  | 2.75 | 3.50 | 9.63 |
| 22 | 22-May |  |  |  | 4.67 | 2.25 | 10.50 |
| 23 | 29-May |  |  |  | 4.67 | 1.25 | 5.83 |
| 24 | 5-Jun |  |  |  |  |  |  |
| 25 | 12-Jun |  |  |  |  |  |  |
| 26 | 19-Jun | 5.00 | 1.00 | 5.00 |  |  |  |
| 27 | 26-Jun | 7.00 | 3.00 | 21.00 |  |  |  |
| 28 | $3-\mathrm{Jul}$ | 7.00 | 3.00 | 21.00 |  |  |  |
| 29 | $10-\mathrm{Jul}$ | 7.00 | 3.00 | 21.00 |  |  |  |
| 30 | 17-Jul | 7.00 | 3.00 | 21.00 |  |  |  |
| 31 | 24 -Jul | 7.00 | 3.00 | 21.00 |  |  |  |
| 32 | 31-Jul | 7.25 | 4.00 | 29.00 |  |  |  |
| 33 | 7-Aug | 7.25 | 4.00 | 29.00 |  |  |  |
| 34 | 14-Aug | 7.60 | 5.00 | 38.00 |  |  |  |
| 35 | 21-Aug | 7.00 | 4.00 | 28.00 |  |  |  |
| 36 | 28-Aug | 5.80 | 5.00 | 29.00 |  |  |  |
| 37 | 4-Sep | 5.40 | 5.00 | 27.00 |  |  |  |
| 38 | 11-Sep | 1.00 | 5.00 | 5.00 |  |  |  |
| 39 | 18 -Sep | 1.75 | 4.00 | 7.00 |  |  |  |
| 40 | $25-$ Sep | 1.67 | 6.00 | 10.00 |  |  |  |
| 41 | 2-Oct | 1.00 | 2.00 | 2.00 |  |  |  |
| Total |  |  | 60 | 314 |  | 10 | 40 |

Appendix C. 11. Daily counts of adult sockeye salmon passing through Tatsamenie Lake weir, 2016.

| Date | Count | Cumulative |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  | Count | Percent |  |
| 8-Aug | Weir installed |  |  |  |
| 15-Aug | 32 | 32 | 0.1 |  |
| 16-Aug | 72 | 104 | 0.3 |  |
| 17-Aug | 32 | 136 | 0.4 |  |
| 18-Aug | 29 | 165 | 0.5 |  |
| 19-Aug | 32 | 197 | 0.6 |  |
| 20-Aug | 54 | 251 | 0.8 |  |
| 21-Aug | 82 | 333 | 1.0 |  |
| 22-Aug | 201 | 534 | 1.6 |  |
| 23-Aug | 495 | 1,029 | 3.1 |  |
| 24-Aug | 671 | 1,700 | 5.2 |  |
| 25-Aug | 1,469 | 3,169 | 9.6 |  |
| 26-Aug | 869 | 4,038 | 12.3 |  |
| 27-Aug | 1,090 | 5,128 | 15.6 |  |
| 28-Aug | 459 | 5,587 | 17.0 |  |
| 29-Aug | 399 | 5,986 | 18.2 |  |
| 30-Aug | 647 | 6,633 | 20.1 |  |
| 31-Aug | 343 | 6,976 | 21.2 |  |
| 1-Sep | 303 | 7,279 | 22.1 |  |
| 2-Sep | 503 | 7,782 | 23.6 |  |
| 3-Sep | 868 | 8,650 | 26.3 |  |
| 4-Sep | 1,161 | 9,811 | 29.8 |  |
| 5-Sep | 3,794 | 13,605 | 41.3 |  |
| 6-Sep | 3,641 | 17,246 | 52.4 |  |
| 7-Sep | 2,527 | 19,773 | 60.0 |  |
| 8-Sep | 1,467 | 21,240 | 64.5 |  |
| 9-Sep | 1,277 | 22,517 | 68.4 |  |
| 10-Sep | 1,053 | 23,570 | 71.6 |  |
| 11-Sep | 917 | 24,487 | 74.4 |  |
| 12-Sep | 1,087 | 25,574 | 77.7 |  |
| 13-Sep | 0 | 25,574 | 77.7 |  |
| 14-Sep | 1,356 | 26,930 | 81.8 |  |
| 15-Sep | 402 | 27,332 | 83.0 |  |
| 16-Sep | 270 | 27,602 | 83.8 |  |
| 17-Sep | 335 | 27,937 | 84.8 |  |
| 18-Sep | 240 | 28,177 | 85.6 |  |
| 19-Sep | 112 | 28,289 | 85.9 |  |
| 20-Sep | 359 | 28,648 | 87.0 |  |
| 21-Sep | 313 | 28,961 | 87.9 |  |
| 22-Sep | 145 | 29,106 | 88.4 |  |
| 23-Sep | 536 | 29,642 | 90.0 |  |
| 24-Sep | 408 | 30,050 | 91.2 |  |
| 25-Sep | 807 | 30,857 | 93.7 |  |
| 26-Sep | 208 | 31,065 | 94.3 |  |
| 27-Sep | 233 | 31,298 | 95.0 |  |
| 28-Sep | 411 | 31,709 | 96.3 |  |
| 29-Sep | 206 | 31,915 | 96.9 |  |
| 30-Sep | 454 | 32,369 | 98.3 |  |
| 1-Oct | 191 | 32,560 | 98.9 |  |
| 2-Oct | 122 | 32,682 | 99.2 |  |
| 3-Oct | 140 | 32,822 | 99.7 |  |
| 4-Oct | 112 | 32,934 | 100.0 |  |
| 5-Oct | 0 | 32,934 | 100.0 |  |
| 6-Oct | 0 | 32,934 | 100.0 |  |
| 7-Oct Weir removed |  |  |  |  |
|  |  | Total | Wild | hanced |
| Holding below weir |  |  |  |  |
| Weir count |  | 32,934 | 26,890 | 6,044 |
| Outlet spawners |  |  |  |  |
| Biological otolith san broodstock otolith sa |  | 94 | 82 | 12 |
|  |  | 391 | 314 | 77 |
| Broodstock a |  | 1,500 | 1,205 | 295 |
| Natural Spawners |  | 31,434 |  |  |

a Broodstock included 548 females and 498 males from which gametes were collected,
28 female and 12 male mortalities, and 324 females and 90 males which were held and released unspawn
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, 2016.

| Date | Count | Cumulative |  |
| :---: | :---: | :---: | :---: |
|  |  | Count | Percent |
| 22-Jul | Weir install |  |  |
| 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 | 2 | 2 | 0.0 |
| 3-Aug | 2 | 4 | 0.1 |
| 4-Aug | 0 | 4 | 0.1 |
| 5-Aug | 80 | 84 | 1.1 |
| 6-Aug | 934 | 1,018 | 13.1 |
| 7-Aug | 1,212 | 2,230 | 28.7 |
| 8-Aug | 560 | 2,790 | 35.9 |
| 9-Aug | 700 | 3,490 | 44.9 |
| 10-Aug | 421 | 3,911 | 50.3 |
| 11-Aug | 654 | 4,565 | 58.7 |
| 12-Aug | 369 | 4,934 | 63.5 |
| 13-Aug | 172 | 5,106 | 65.7 |
| 14-Aug | 352 | 5,458 | 70.2 |
| 15-Aug | 216 | 5,674 | 73.0 |
| 16-Aug | 164 | 5,838 | 75.1 |
| 17-Aug | 121 | 5,959 | 76.7 |
| 18-Aug | 125 | 6,084 | 78.3 |
| 19-Aug | 77 | 6,161 | 79.3 |
| 20-Aug | 116 | 6,277 | 80.8 |
| 21-Aug | 76 | 6,353 | 81.8 |
| 22-Aug | 70 | 6,423 | 82.7 |
| 23-Aug | 115 | 6,538 | 84.1 |
| 24-Aug | 152 | 6,690 | 86.1 |
| 25-Aug | 63 | 6,753 | 86.9 |
| 26-Aug | 76 | 6,829 | 87.9 |
| 27-Aug | 144 | 6,973 | 89.7 |
| 28-Aug | 126 | 7,099 | 91.4 |
| 29-Aug | 69 | 7,168 | 92.2 |
| 30-Aug | 73 | 7,241 | 93.2 |
| 31-Aug | 48 | 7,289 | 93.8 |
| 1-Sep | 60 | 7,349 | 94.6 |
| 2-Sep | 40 | 7,389 | 95.1 |
| 3-Sep | 21 | 7,410 | 95.4 |
| 4-Sep | 193 | 7,603 | 97.8 |
| 5-Sep | 32 | 7,635 | 98.2 |
| 6-Sep | 51 | 7,686 | 98.9 |
| 7-Sep | 48 | 7,734 | 99.5 |
| 8-Sep | 25 | 7,759 | 99.8 |
| 9-Sep | 12 | 7,771 | 100.0 |
| 10-Sep | 0 | 7,771 | 100.0 |
| 10-Sep Weir removed |  |  |  |
|  |  | Total | Wild enhanced |
| Holding below weir |  |  |  |
| Escapement to lake |  | 7,771 |  |
| Outlet spawners otolith samples |  |  |  |
| Broodstock |  | 177 |  |
| Natural Spawners |  | 7,594 |  |

Appendix C. 13. Daily counts of adult sockeye salmon passing through the King Salmon Lake weir, 2016.

| Date | Count | Cumulative |  |
| :---: | :---: | :---: | :---: |
|  |  | Count | Percent |
| 12-Jul | Weir installed |  |  |
| 12-Jul | 27 | 27 | 0.4 |
| 13-Jul | 0 | 27 | 0.4 |
| 14-Jul | 285 | 312 | 4.9 |
| 15-Jul | 371 | 683 | 10.7 |
| 16-Jul | 209 | 892 | 13.9 |
| 17-Jul | 246 | 1,138 | 17.8 |
| 18-Jul | 157 | 1,295 | 20.2 |
| 19-Jul | 200 | 1,495 | 23.3 |
| 20-Jul | 0 | 1,495 | 23.3 |
| 21-Jul | 170 | 1,665 | 26.0 |
| 22-Jul | 150 | 1,815 | 28.3 |
| 23-Jul | 178 | 1,993 | 31.1 |
| 24-Jul | 146 | 2,139 | 33.4 |
| 25-Jul | 253 | 2,392 | 37.4 |
| 26-Jul | 212 | 2,604 | 40.7 |
| 27-Jul | 148 | 2,752 | 43.0 |
| 28-Jul | 336 | 3,088 | 48.2 |
| 29-Jul | 186 | 3,274 | 51.1 |
| 30-Jul | 184 | 3,458 | 54.0 |
| 31-Jul | 150 | 3,608 | 56.3 |
| 1-Aug | 152 | 3,760 | 58.7 |
| 2-Aug | 195 | 3,955 | 61.8 |
| 3-Aug | 168 | 4,123 | 64.4 |
| 4-Aug | 111 | 4,234 | 66.1 |
| 5-Aug | 159 | 4,393 | 68.6 |
| 6-Aug | 130 | 4,523 | 70.6 |
| 7-Aug | 464 | 4,987 | 77.9 |
| 8-Aug | 423 | 5,410 | 84.5 |
| 9-Aug | 310 | 5,720 | 89.3 |
| 10-Aug | 163 | 5,883 | 91.9 |
| 11-Aug | 178 | 6,061 | 94.6 |
| 12-Aug | 118 | 6,179 | 96.5 |
| 13-Aug | 223 | 6,402 | 100.0 |
| 14-Aug | 2 | 6,404 | 100.0 |
| 15-Aug | 0 | 6,404 | 100.0 |
| 16-Aug | 0 | 6,404 | 100.0 |
| 17-Aug | 0 | 6,404 | 100.0 |
| 18-Aug | 0 | 6,404 | 100.0 |
| 19-Aug | 0 | 6,404 | 100.0 |
| 20-Aug | 0 | 6,404 | 100.0 |
| 21-Aug | 0 | 6,404 | 100.0 |
| 22-Aug | 0 | 6,404 | 100.0 |
| 23-Aug | 0 | 6,404 | 100.0 |
| 24-Aug | 0 | 6,404 | 100.0 |
| 25-Aug | 0 | 6,404 | 100.0 |
| 4-Sep | Veir removed |  |  |
| Total | 6,404 |  |  |
| Escapement to lake |  | 6,404 |  |
| Broodstock |  | 0 |  |
| Spawners |  | 6,404 |  |
| Helicopter survey |  | none |  |

Appendix C. 14. Daily counts of adult sockeye salmon passing through the Kuthai Lake weir, 2016.

| Date | Count | Cumulative |  |
| :---: | :---: | :---: | :---: |
|  |  | Count | Percent |
| 9-Jul | Weir installed |  |  |
| 12-Jul | 1 | 1 | 0.1 |
| 13-Jul | 0 | 1 | 0.1 |
| 14-Jul | 0 | 1 | 0.1 |
| 15-Jul | 0 | 1 | 0.1 |
| 16-Jul | 0 | 1 | 0.1 |
| 17-Jul | 35 | 36 | 2.4 |
| 18-Jul | 476 | 512 | 34.7 |
| 19-Jul | 266 | 778 | 52.7 |
| 20-Jul | 175 | 953 | 64.6 |
| 21-Jul | 88 | 1,041 | 70.5 |
| 22-Jul | 50 | 1,091 | 73.9 |
| 23-Jul | 87 | 1,178 | 79.8 |
| 24-Jul | 50 | 1,228 | 83.2 |
| 25-Jul | 41 | 1,269 | 86.0 |
| 26-Jul | 61 | 1,330 | 90.1 |
| 27-Jul | 28 | 1,358 | 92.0 |
| 28-Jul | 13 | 1,371 | 92.9 |
| 29-Jul | 36 | 1,407 | 95.3 |
| 30-Jul | 20 | 1,427 | 96.7 |
| 31-Jul | 0 | 1,427 | 96.7 |
| 1-Aug | 0 | 1,427 | 96.7 |
| 2-Aug | 0 | 1,427 | 96.7 |
| 3-Aug | 0 | 1,427 | 96.7 |
| 4-Aug | 47 | 1,474 | 99.9 |
| 5-Aug | 1 | 1,475 | 99.9 |
| 6-Aug | 1 | 1,476 | 100.0 |
| 7-Aug | 0 | 1,476 | 100.0 |
| 8-Aug | 0 | 1,476 | 100.0 |
| 9-Aug | 0 | 1,476 | 100.0 |
| 10-Aug | 0 | 1,476 | 100.0 |
| 11-Aug | 0 | 1,476 | 100.0 |
| 12-Aug | 0 | 1,476 | 100.0 |
| 13-Aug | 0 | 1,476 | 100.0 |
| 14-Aug | 0 | 1,476 | 100.0 |
| 15-Aug | 0 | 1,476 | 100.0 |
| 16-Aug | 0 | 1,476 | 100.0 |
| 17-Aug | 0 | 1,476 | 100.0 |
| 18-Aug | 0 | 1,476 | 100.0 |
| 19-Aug | 0 | 1,476 | 100.0 |
| 20-Aug | 0 | 1,476 | 100.0 |
| 21-Aug | 0 | 1,476 | 100.0 |
| 22-Aug | 0 | 1,476 | 100.0 |
| 23-Aug | 0 | 1,476 | 100.0 |
| 24-Aug | 0 | 1,476 | 100.0 |
| 25-Aug | 0 | 1,476 | 100.0 |
| 26-Aug | 0 | 1,476 | 100.0 |
| 27-Aug | 0 | 1,476 | 100.0 |
| 28-Aug | 0 | 1,476 | 100.0 |
| 2-Sep | Weir removed |  |  |
| Total count |  | 1,476 |  |
| Harvest above weir |  | 0 |  |
| Escapement |  | 1,476 |  |

Appendix C. 15. Daily counts of large Chinook salmon carcasses at the Nakina River weir, 2016.


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

| 1960-2016. |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Chinook | Sockeye | Coho | Pink | Chum | Boat DaysDays 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 |
| average |  |  |  |  |  |  |
| 60-15 | 3,852 | 99,369 | 41,429 | 118,037 | 209,185 | 3,034 |
| 06-15 | 3,104 | 135,233 | 40,063 | 156,396 | 588,285 | 3,242 |

Appendix D. 2. District 111 total Chinook salmon harvest in the US gillnet, sport, and personal use fisheries, 2005-2016.


Appendix D. 3. Annual estimates of Taku River large Chinook salmon in the D111 fisheries, 2005-2016.
Estimates based on GSI for gillnet and sport; troll is CWT.
For detailed GSI stock comp estimates see Appendix G. 6.

| For detailed GS stock comp estimates see Appendix G. 6. |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Year | PU | Sport | Gillnet | Troll | Total large Taku |
| 2005 | 32 | 2,476 | 16,490 | 21 | 19,019 |
| 2006 | 18 | 2,048 | 9,257 | 11 | 11,334 |
| 2007 | 22 | 1,034 | 303 | 0 | 1,359 |
| 2008 | 46 | 632 | 445 | 0 | 1,123 |
| 2009 | 25 | 673 | 4,609 | 2 | 5,309 |
| 2010 | 36 | 984 | 526 | 0 | 1,546 |
| 2011 | 48 | 573 | 518 | 0 | 1,139 |
| 2012 | 34 | 671 | 668 | 8 | 1,380 |
| 2013 | 20 | 257 | 356 | 0 | 632 |
| 2014 | 21 | 714 | 488 | 0 | 1,223 |
| 2015 | 29 | 463 | 292 | 0 | 784 |
| 2016 | 30 | 635 | 159 | 0 | 824 |
| Averages |  |  |  |  |  |
| $06-15$ | 30 | 957 | 3,086 | 4 | 4,077 |

Appendix D. 4. Annual Chinook Salmon harvest in the Canadian fisheries in the Taku River, 1979-2016.

|  | Commerical |  | Aboriginal |  | Assesment/Test |  |  | $\begin{gathered} \text { Rec } \\ \text { Large } \end{gathered}$ | Total <br> All Large |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | 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 wa | anadian | est fishery | 300 | 2,484 |
| 1995 | 1,577 | 298 | 70 |  | There wa | anadian co | est fishery | 105 | 1,752 |
| 1996 | 3,331 | 144 | 63 |  | There wa | anadian co | est fishery | 105 | 3,499 |
| 1997 | 2,731 | 84 | 103 |  |  |  |  | 105 | 2,939 |
| 1998 | 1,107 | 227 | 60 |  | There wa | anadian co | est 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 w | aasesmen | 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 |
| Averages |  |  |  |  |  |  |  |  |  |
| 85-15 | 2,042 | 329 | 91 |  |  |  |  | 168 | 2,783 |
| 06-15 | 3,211 | 559 | 126 | 12 | 756 | 85 |  | 105 | 4,129 |

Appendix D. 5. Taku River large Chinook salmon run size, 1979-2016.

| Run estimate does not include spawning escapements below the U.S./Canada border. U.S. harvest estimates after 2004 are based on GSI (gillnet and sport fish) and CWT (troll) and harvest in the fisheries between SW 18-28. |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Above Border M-R |  | Confidence Intervals |  | Above Border |  |  | Terminal Run |
|  | Spawning <br> Escapement | Method |  |  | Canadian | Run | U.S. |  |
|  |  |  | Lower | Upper | Harvest | Estimate | 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 expansion | 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 expansion | 19,411 | 35,635 | 3,277 | 30,800 | 1,139 | 31,939 |
| 2012 | 19,538 | Medium expansion | 15,007 | 23,851 | 2,965 | 22,503 | 1,380 | 23,883 |
| 2013 | 18,002 | Aerial expansion | 4,500 | 31,504 | 738 | 18,740 | 632 | 19,372 |
| 2014 | 23,532 | Mark-recapture | 19,187 | 27,877 | 2,472 | 26,004 | 1,223 | 27,227 |
| 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 |
| Avera |  |  |  |  |  |  |  |  |
| 95-15 | 38,804 |  |  |  | 3,479 | 42,283 | 4,259 | 46,542 |
| 06-15 | 25,254 |  |  |  | 3,770 | 29,024 | 2,583 | 31,607 |

Appendix D. 6. Aerial survey index escapement counts of large (3-ocean and older)
Taku River Chinook salmon, 1975-2016.

| Year | Kowatua | Tatsamenie | Dudidontu | Tseta | Nakina ${ }^{\text {a }}$ |  | Nahlin | Total Index Count without Tseta |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | 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 |
| Averages |  |  |  |  |  |  |  |  |
| 85-15 | 739 | 956 | 536 | 358 | 116 | 3,380 | 1,431 | 6,945 |
| 05-15 | 575 | 666 | 279 | 216 | 116 | 1,494 | 738 | 3,603 |
|  | 0.53 | 0.14 | 0.56 | 0.00 | 0.69 | 0.54 | 0.51 | 0.48 |

[^2]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, 1967-2016.

| Year | D111 Gillnet harvest |  |  |  | D111 Amalga Seine harvest |  |  | PU Taku harvest |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | All | D111 Gill | ithout 111-3 | for stock comp | All |  |  |  |  |  |
|  | D111 Gillnet | harvest | Wild Taku | EnhancedTaku | D111 Seine | Wild Taku | EnhancedTaku | All Taku | 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 | 0 | 0 | 955 | 948 | 7 |
| 2016 | 215,049 | 131,025 | 66,980 | 6,710 | 2,684 |  | 0 | 1,184 | 1,051 | 133 |
| Averag |  |  |  |  |  |  |  |  |  |  |
| 95-15 | 136,372 | 121,062 | 79,938 | 3,218 |  |  |  | 1,106 | 1,059 | 47 |
| 06-15 | 114,643 | 94,589 | 53,330 | 4,220 |  |  |  | 1,013 | 940 | 72 |

Appendix D. 8. Stock proportions and harvest of sockeye salmon in the traditional
Alaska District 111 commercial drift gillnet fishery, 1983-2016.


Appendix D. 9. Proportion of wild Taku River sockeye salmon in the Alaskan District 111 commercial drift gillnet harvest by week, 1983-2016.

| Year | Week |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | Total |
| 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 | 0.988 | 0.979 | 0.953 | 0.979 | 0.951 | 0.933 | 0.936 | 0.890 | 0.885 | 0.875 | 0.941 |
| 1993 | 0.988 | 0.979 | 0.953 | 0.979 | 0.951 | 0.933 | 0.936 | 0.890 | 0.885 | 0.875 | 0.941 |
| 1994 | 0.988 | 0.979 | 0.953 | 0.979 | 0.951 | 0.933 | 0.936 | 0.890 | 0.885 | 0.875 | 0.941 |
| 1995 | 0.988 | 0.979 | 0.953 | 0.979 | 0.951 | 0.933 | 0.936 | 0.890 | 0.885 | 0.875 | 0.941 |
| 1996 | 0.988 | 0.979 | 0.953 | 0.979 | 0.951 | 0.933 | 0.936 | 0.890 | 0.885 | 0.875 | 0.941 |
| 1997 | 0.988 | 0.979 | 0.953 | 0.979 | 0.951 | 0.933 | 0.936 | 0.890 | 0.885 | 0.875 | 0.941 |
| 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 |
| Average |  |  |  |  |  |  |  |  |  |  |  |
| $83-15$ |  | 0.955 | 0.914 | 0.874 | 0.816 | 0.765 | 0.774 | 0.742 | 0.715 | 0.688 | 0.820 |
| 06-15 |  | 0.908 | 0.859 | 0.764 | 0.675 | 0.605 | 0.595 | 0.528 | 0.510 | 0.508 | 0.678 |

Appendix D. 10. Annual sockeye salmon harvest estimates of wild and enhanced fish in the Canadian fisheries in the Taku River, 1979-2016.

| 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 |
| Averages |  |  |  |  |  |  |  |  |  |  |  |
| 86-15 | 24,023 | 20,340 | 182 |  |  | 23,293 | 177 |  |  |  |  |
| 06-15 | 20,489 | 20,340 | 145 | 170 |  | 18,973 | 134 | 160 | 1,472 | 10 | 10 |

Appendix D. 11. Annual sockeye salmon stock proportions and harvest by stock in the Canadian commercial fishery on the Taku River, 1986-2016.

| Year | Taku <br> Lakes other | Mainstem | Tatsamenie |  | Little Trapper Enhance | King Salmon Enhance | Taku |  | Stikine <br> Enhance | US <br> Enhance | Wild lake stocks based on SPA |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  | King |  | Little Trapper |
|  |  |  | 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 | ${ }^{\text {a }}$ |
| 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 |  |  |  | 0.026 | 0.000 |  | 0.969 | 0.026 | 0.004 | 0.001 |  |  |  |
| 2015 |  |  |  | 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 |  |  |  |
| Averages |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 86-15 |  |  |  |  |  |  | 0.970 |  |  |  |  |  |  |
| 06-15 |  |  |  | 0.060 | 0.004 |  | 0.933 | 0.064 |  |  |  |  |  |
| 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 |  |  |  | 462 | 0 |  | 17,106 | 462 | 66 | 11 |  |  |  |
| 2015 |  |  |  | 123 | 0 |  | 19,592 | 123 | 32 | 0 |  |  |  |
| 2016 |  |  |  | 3,361 |  | 646 | 33,112 | 4,007 | 57 | 124 |  |  |  |
| Averages |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 86-15 |  |  |  |  |  |  | 23,293 |  |  |  |  |  |  |
| 06-15 |  |  |  | 1,344 | 99 |  | 18,973 | 1,444 |  |  |  |  |  |

Appendix D. 12. Annual sockeye salmon weir counts, escapements, and samples at the Tatsamenie Lake weir, 1984-2016.

| Broodstock taken includes all fish used for gametes, holding mortalities, and fish held and released unspawned. |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Weir <br> Count | Spawning <br> Escapement | Spawning Escapement |  | otolith samples |  |  | broodstock taken |  |  |
|  |  |  | wild | enhanced | wild | enhanced | All samples | wild | enhanced | Total |
| 1984 |  |  |  |  |  |  |  |  |  |  |
| $1985{ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |
| 1986 |  |  |  |  |  |  |  |  |  |  |
| $1987{ }^{\text {a }}$ |  | 25 |  |  |  |  |  |  |  |  |
| 1988 |  |  |  |  |  |  |  |  |  |  |
| 1989 |  |  |  |  |  |  |  |  |  |  |
| 1990 |  |  |  |  |  |  |  |  |  |  |
| 1991 |  |  |  |  |  |  |  |  |  |  |
| 1992 |  |  |  |  |  |  |  |  |  |  |
| 1993 |  |  |  |  |  |  |  |  |  |  |
| 1994 |  |  |  |  |  |  |  |  |  |  |
| 1995 | 5,780 | 4,387 | 3,443 | 944 |  |  |  | 1,093 | 300 | 1,393 |
| 1996 | 10,381 | 8,026 | 7,682 | 344 |  |  |  | 2,254 | 101 | 2,355 |
| 1997 | 8,363 | 5,981 | 5,815 | 166 |  |  |  | 2,316 | 66 | 2,382 |
| 1998 | 5,997 | 4,735 | 4,628 | 107 | 389 | 9 | 398 | 1,233 | 29 | 1,262 |
| 1999 | 2,104 | 1,888 | 1,855 | 33 | 167 | 3 | 170 | 212 | 4 | 216 |
| 2000 | 7,575 | 5,570 | 4,835 | 735 | 342 | 52 | 394 | 1,740 | 265 | 2,005 |
| 2001 | 22,575 | 19,579 | 16,324 | 3,255 | 336 | 67 | 403 | 2,498 | 498 | 2,996 |
| 2002 | 5,495 | 4,379 | 3,854 | 525 | 345 | 47 | 392 | 982 | 134 | 1,116 |
| 2003 | 4,515 | 2,965 | 2,085 | 880 | 256 | 108 | 364 | 1,090 | 460 | 1,550 |
| 2004 | 1,951 | 1,357 | 860 | 497 | 220 | 127 | 347 | 377 | 217 | 594 |
| 2005 | 3,372 | 2,445 | 1,960 | 485 | 311 | 77 | 388 | 743 | 184 | 927 |
| 2006 | 22,475 | 19,820 | 17,623 | 2,197 | 369 | 46 | 415 | 2,361 | 294 | 2,655 |
| 2007 | 11,187 | 8,384 | 5,995 | 2,389 | 276 | 110 | 386 | 2,004 | 799 | 2,803 |
| 2008 | 8,976 | 6,176 | 3,309 | 2,867 | 210 | 182 | 392 | 1,500 | 1,300 | 2,800 |
| 2009 | 2,032 | 1,292 | 1,071 | 221 | 329 | 68 | 397 | 613 | 127 | 740 |
| 2010 | 3,513 | 2,113 | 1,688 | 425 | 318 | 80 | 398 | 1,119 | 281 | 1,400 |
| 2011 | 7,880 | 6,580 | 4,848 | 1,732 | 294 | 105 | 399 | 958 | 342 | 1,300 |
| 2012 | 15,605 | 14,305 | 8,583 | 5,722 | 240 | 160 | 400 | 780 | 520 | 1,300 |
| 2013 | 10,246 | 8,946 | 4,844 | 4,102 | 209 | 177 | 386 | 704 | 596 | 1,300 |
| 2014 | 2,106 | 1,348 | 776 | 572 | 201 | 148 | 349 | 437 | 321 | 758 |
| 2015 | 1,537 | 939 | 530 | 409 | 188 | 145 | 333 | 338 | 260 | 598 |
| 2016 | 32,934 | 31,434 | 25,666 | 5,768 | 396 | 89 | 485 | 1,225 | 275 | 1,500 |
| Averages |  |  |  |  |  |  |  |  |  |  |
| 06-15 | 8,556 | 6,990 | 4,927 | 2,064 | 263 | 122 | 386 | 1,081 | 484 | 1,565 |

Appendix D. 13. Annual sockeye salmon weir counts, escapements, and samples at the Little Trapper weir, 1983-2016.

| Broodstock estimate is based on commercial ratio with Tatsamenie River weir data |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Weir <br> Count | Spawning <br> Escapement | Trapper spawning esc |  | Broodstock |  |  |
|  |  |  | wild | enhanced | Total | wild | enhanced |
| 1983 | 7,402 | 7,402 |  |  | 0 |  |  |
| 1984 | 13,084 | 13,084 |  |  | 0 |  |  |
| 1985 | 14,889 | 14,889 |  |  | 0 |  |  |
| 1986 | 13,820 | 13,820 |  |  | 0 |  |  |
| 1987 | 12,007 | 12,007 |  |  | 0 |  |  |
| 1988 | 10,637 | 10,637 |  |  | 0 |  |  |
| 1989 | 9,606 | 9,606 |  |  | 0 |  |  |
| 1990 | 9,443 | 7,777 |  |  | 1,666 | 1,666 |  |
| 1991 | 22,942 | 21,001 |  |  | 1,941 | 1,941 |  |
| 1992 | 14,372 | 12,732 |  |  | 1,640 | 1,640 |  |
| 1993 | 17,432 | 16,685 |  |  | 747 | 747 |  |
| 1994 | 13,438 | 12,691 |  |  | 747 | 747 |  |
| 1995 | 11,524 | 11,524 | 11,076 | 448 | 0 |  |  |
| 1996 | 5,483 | 5,483 | 5,295 | 188 | 0 |  |  |
| 1997 | 5,924 | 5,924 | 5,550 | 374 | 0 |  |  |
| 1998 | 8,717 | 8,717 | 7,698 | 1,019 | 0 |  |  |
| 1999 | 11,805 | 11,805 | 11,760 | 45 | 0 |  |  |
| 2000 | 11,551 | 11,551 | 11,551 | 0 | 0 |  |  |
| 2001 | 16,860 | 16,860 | 16,860 | 0 | 0 |  |  |
| 2002 | 7,973 | 7,973 | 7,973 | 0 | 0 |  |  |
| 2003 | 31,227 | 31,227 | 31,227 | 0 | 0 |  |  |
| 2004 | 9,613 | 9,613 | 9,613 | 0 | 0 |  |  |
| 2005 | 16,009 | 16,009 | 16,009 | 0 | 0 |  |  |
| 2006 | 25,265 | 24,557 | 24,557 | 0 | 708 | 708 |  |
| 2007 | 7,153 | 6,340 | 6,340 | 0 | 813 | 813 |  |
| 2008 | 3,831 | 2,791 | 2,791 | 0 | 1,040 | 1,040 |  |
| 2009 | 5,552 | 5,443 | 5,443 | 0 | 109 | 109 |  |
| 2010 | 3,347 | 3,387 | 3,090 | 297 |  |  |  |
| 2011 | 3,809 | 3,809 | 3,521 | 288 |  |  |  |
| 2012 | 10,015 | 10,015 | 9,531 | 484 |  |  |  |
| 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 |  |  |  |  |
| Averages |  |  |  |  |  |  |  |
| 83-15 | 11,498 | 11,217 |  |  |  |  |  |
| 06-15 | 8,367 | 8,114 |  |  |  |  |  |

Appendix D. 14. Annual sockeye salmon weir counts, escapements, and samples at the King Salmon weir, 1983-2016.

| Spawning escapement is based harvest rates and projections of King Salmon |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Weir | Spawning | King Salmon spawning esc |  |
| Year | Count | Escapement | wild | enhanced |
|  |  |  |  |  |
| 2004 | 5005 | 5005 | 5,005 |  |
| 2005 | 1046 | 1046 | 1,046 |  |
| 2006 | 2177 | 2177 | 2,177 |  |
| 2007 | 5 | 5 | 5 |  |
| 2008 | 888 | 888 | 888 |  |
| 2009 | 55 | 55 | 55 |  |
| 2010 | 2977 | 2977 | 2,977 |  |
| 2011 | 2899 | 2899 | 2,899 |  |
| 2012 | 5413 | 5263 | 5,413 |  |
| 2013 | 485 | 485 | 485 |  |
| 2014 | 1061 | 910 | 1,061 |  |
| 2015 | 1683 | 1683 | 1,683 |  |
| 2016 | 6404 | 6404 | 3,378 | 3,026 |

Appendix D. 15. Taku River sockeye salmon run size, 1984-2016.
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 sockeye salmon catch that occurs before the fishery opens.

| Year | Above Border M-R |  | Expansion |  | Expanded |  |  | U.S. | Terminal <br> Run | Total Harvest Rate |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Run <br> Estimate | Start <br> Date |  |  | Above Border | Canadian |  |  |  |  |
|  |  |  | Method | Factor | Run Estimate | harvest | Escape. | 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 | 17,249 | 87,763 | 65,129 | 170,141 | 48\% |
| 2008 | 84,073 | 17-May | FW CPUE after week 34 | 0.040 | 87,568 | 19,509 | 68,059 | 75,692 | 163,260 | 58\% |
| 2009 | 83,028 | 12-May | FW CPUE after week 34 | 0.001 | 83,097 | 11,260 | 71,837 | 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 | $25-\mathrm{Apr}$ | No Expansion |  | 139,926 | 24,543 | 115,383 | 71,805 | 211,731 | 46\% |
| 2012 | 155,590 | $25-\mathrm{Apr}$ | 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 | $25-\mathrm{Apr}$ | No Expansion |  | 109,984 | 17,795 | 92,189 | 33,226 | 143,210 | 36\% |
| 2015 | 150,483 | $25-\mathrm{Apr}$ | FW CPUE for SW 23 and 24 | 0.012 | 152,372 | 19,849 | 132,523 | 42,054 | 194,426 | 32\% |
| 2016 | 213,851 | $25-\mathrm{Apr}$ | FW CPUE for SW 23 and 24 |  | 213,851 | 37,434 | 176,417 | 74,874 | 288,725 | 39\% |
| Averages |  |  |  |  |  |  |  |  |  |  |
| 84-15 | 125,210 | 24-May |  |  | 128,136 | 24,139 | 103,997 | 83,876 | 212,012 | 49\% |
| 06-15 | 119,568 | 8-May |  |  | 121,781 | 20,760 | 101,021 | 58,761 | 180,542 | 43\% |

Appendix D. 16. The terminal run reconstruction of Taku wild and enhanced sockeye salmon, 1984-2016.

| Year | Wild Terminal Run |  |  |  |  | Enhanced Terminal Run |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Canadian |  | escapement | $\begin{gathered} \text { US } \\ \text { harvest } \end{gathered}$ | Terminal <br> Run | Canadian |  | escapement | US <br> harvest | Terminal <br> 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 | 112,048 | 87,878 | 231,300 | 1,337 | 0 | 1,692 | 4,106 | 7,134 |
| 1996 | 41,287 | 0 | 91,994 | 182,944 | 316,225 | 738 | 0 | 632 | 4,783 | 6,154 |
| 1997 | 23,685 | 0 | 70,481 | 77,067 | 171,233 | 667 | 0 | 605 | 2,060 | 3,332 |
| 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 | 84,575 | 61,387 | 161,429 | 1,742 | 39 | 3,188 | 3,742 | 8,712 |
| 2008 | 17,433 | 9 | 63,892 | 63,905 | 145,239 | 2,066 | 1 | 4,167 | 11,787 | 18,021 |
| 2009 | 10,980 | 172 | 71,489 | 35,984 | 118,625 | 106 | 2 | 348 | 248 | 704 |
| 2010 | 19,732 | 287 | 87,364 | 45,824 | 153,207 | 632 | 10 | 1,003 | 943 | 2,588 |
| 2011 | 22,259 | 480 | 113,022 | 66,113 | 201,875 | 1,762 | 41 | 2,362 | 5,691 | 9,856 |
| 2012 | 26,981 | 5 | 120,038 | 46,559 | 193,583 | 3,126 | 1 | 6,726 | 4,177 | 14,029 |
| 2013 | 21,190 | 0 | 76,448 | 86,773 | 184,411 | 3,982 | 0 | 4,729 | 13,371 | 22,082 |
| 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 | 167,348 | 68,031 | 268,770 | 4,029 | 14 | 9,069 | 6,843 | 19,955 |
| Averages |  |  |  |  |  |  |  |  |  |  |
| 84-15 | 23,306 | 154 | 102,782 | 81,721 | 207,963 |  |  |  |  |  |
| 06-15 | 19,108 | 160 | 98,364 | 54,429 | 172,060 | 1,482 | 10 | 2,658 | 4,332 | 8,482 |

Appendix D. 17. Annual sockeye salmon escapement estimates of Taku River and Port Snettisham sockeye salmon stocks, 1979-2016.

| Spawners equals escapement to the weir minus fish collected for brood stock. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Little Trapper |  | Little Tatsamenie |  | Tatsamenie |  | King Salmon |  | $\begin{gathered} \hline \text { Kuthai } \\ \text { Lake } \\ \text { Weir } \\ \hline \end{gathered}$ | Nahlin <br> River <br> Weir | Crescent Lake |  | Speel Lake |  |
|  | Count | Escape. | Count | Escape. | Count | Escape. | count | escape |  |  | Count | Escape. | Count | Escape. |
| 1980 |  |  |  |  |  |  |  |  | 1,658 |  |  |  |  |  |
| 1981 |  |  |  |  |  |  |  |  | 2,299 |  |  |  |  |  |
| 1982 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1983 | 7,402 | 7,402 |  |  |  |  |  |  |  |  | 19,422 | 19,422 | 10,484 | 10,484 |
| 1984 | 13,084 | 13,084 |  |  |  |  |  |  |  |  | 6,707 | 6,707 | 9,764 | 9,764 |
| 1985 | 14,889 | 14,889 | 13,093 | 13,093 |  |  |  |  |  |  | 7,249 | 7,249 | 7,073 | 7,006 |
| 1986 | 13,820 | 13,820 | 11,446 | 11,446 |  |  |  |  |  |  | 3,414 | 3,414 | 5,857 | 5,457 |
| 1987 | 12,007 | 12,007 | 2,794 | 2,794 |  | 25 |  |  |  |  | 7,839 | 7,839 | 9,319 | 9,319 |
| 1988 | 10,637 | 10,637 | 2,063 | 2,063 |  |  |  |  |  | 138 | 1,199 | 1,199 | 969 | 710 |
| 1989 | 9,606 | 9,606 | 3,039 | 3,039 |  |  |  |  |  |  | 1,109 | 775 | 12,229 | 10,114 |
| 1990 | 9,443 | 7,777 | 5,736 | 4,929 |  |  |  |  |  | 2,515 | 1,262 | 757 | 18,064 | 16,867 |
| 1991 | 22,942 | 21,001 | 8,381 | 7,585 |  |  |  |  |  |  | 9,208 | 8,666 | 299 | 299 |
| 1992 | 14,372 | 12,732 | 6,576 | 5,681 |  |  |  |  | 1,457 | 297 | 22,674 | 21,849 | 9,439 | 8,136 |
| 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 |  |  | 16,208 | 14,260 |
| 1996 | 5,483 | 5,483 |  |  | 10,381 | 8,026 |  |  | 4,243 | 2,538 |  |  | 20,000 | 18,610 |
| 1997 | 5,924 | 5,924 |  |  | 8,363 | 5,981 |  |  | 5,746 | 1,857 |  |  | 4,999 |  |
| 1998 | 8,717 | 8,717 |  |  | 5,997 | 4,735 |  |  | 1,934 | 345 |  |  | 13,358 |  |
| 1999 | 11,805 | 11,805 |  |  | 2,104 | 1,888 |  |  | 10,042 |  |  |  | 10,277 |  |
| 2000 | 11,551 | 11,551 |  |  | 7,575 | 5,570 |  |  | 4,096 |  |  |  | 6,764 |  |
| 2001 | 16,860 | 16,860 |  |  | 22,575 | 19,579 |  |  | 1,663 | 935 |  |  | 8,060 |  |
| 2002 | 7,973 | 7,973 |  |  | 5,495 | 4,379 |  |  | 7,697 |  |  |  | 5,016 |  |
| 2003 | 31,227 | 31,227 |  |  | 4,515 | 2,965 |  |  | 7,769 |  |  |  | 7,014 |  |
| 2004 | 9,613 | 9,613 |  |  | 1,951 | 1,357 | 5,005 | 5,005 | 1,578 |  | na | na | 7,813 |  |
| 2005 | 16,009 | 16,009 |  |  | 3,372 | 2,445 | 1,046 | 1,046 | 6,004 |  | na | na | 7,538 |  |
| 2006 | 25,265 | 24,557 |  |  | 22,475 | 19,820 | 2,177 | 2,177 | 1,015 |  | na | na | 4,163 |  |
| 2007 | 7,153 | 6,340 |  |  | 11,187 | 8,384 | 5 | 5 | 204 |  | na | na | 3,099 |  |
| 2008 | 3,831 | 2,791 |  |  | 8,976 | 6,176 | 888 | 888 | 1,547 |  | na | na | 1,763 |  |
| 2009 | 5,552 | 5,443 |  |  | 2,032 | 1,292 | 55 | 55 | 1,442 |  | na | na | 3,689 | 3,689 |
| 2010 | 3,347 | 3,387 |  |  | 3,513 | 2,113 | 2,977 | 2,977 | 1,626 |  | na | na | 5,643 | 5,643 |
| 2011 | 3,809 | 3,809 |  |  | 7,880 | 6,580 | 2,899 | 2,899 | 811 |  | na | na | 4,777 | 4,777 |
| 2012 | 10,015 | 10,015 |  |  | 15,605 | 14,305 | 5,413 | 5,263 | 182 |  | na | na | 5,681 | 5,681 |
| 2013 | 4,840 | 4,840 |  |  | 10,246 | 8,946 | 485 | 485 | 1,195 |  | na | na | 6,427 | 6,427 |
| 2014 | 6,607 | 6,707 |  |  | 2,106 | 1,348 | 1,061 | 910 | 208 |  |  |  | 5,062 | 5,062 |
| 2015 | 13,253 | 13,253 |  |  | 1,537 | 939 | 1,683 | 1,683 | 341 |  |  |  | 4,888 | 4,888 |
| 2016 | 7,771 | 7,594 |  |  | 32,934 |  | 6,404 | 6,404 | 1,476 |  |  |  | 5,538 | 5,538 |
| Averages |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 83-15 | 11,498 | 11,217 |  |  |  |  |  |  |  |  |  |  | 7,540 |  |
| 06-15 | 8,367 | 8,114 |  |  | 8,556 | 6,990 |  |  | 857 |  |  |  | 4,519 |  |

## Appendix D. 18. Historical Taku River coho salmon harvested in D111 terminal

 fisheries, 1992-2016.| Sportfish estimate is based on all landings made in Juneau (not just District 111) |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | D111 Gillnet |  | Juneau Sport Fish |  |  |  |
|  | Harvest | SE | Harvest | SE | PU | Total |
| 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 |
| average |  |  |  |  |  |  |
| 06-15 | 22,346 |  | 3,702 |  | 186 | 26,233 |


| Appen $\qquad$ <br> Year | Historical co1987-2016. |  |  | Aboriginal | adianTest | heries in theTest released |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Commercial |  |  |  |  |  |
|  | 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 |  |
| Average |  |  |  |  |  |  |
| 83-15 | 6,010 |  |  | 172 |  |  |
| 06-15 | 8,632 |  |  | 160 | 2,364 |  |

Appendix D. 20. Historic Taku River coho salmon run size, 1987-2016.

| Year | Above Border MR |  | Expansion |  | Expanded <br> Estimate | Canadian Harvest | Escape. | Terminal |  |  | Total 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 -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-Oct | no expansion | 1.00 | 99,224 | 11,520 | 87,704 | 13,930 | 113,154 | 0.225 | 125,323 |
| Averag |  |  |  |  |  |  |  |  |  |  |  |
| 87-15 | 92,211 | 30-Jan |  | 1.13 | 99,471 | 7,787 | 91,684 | 29,671 | 134,253 | 0.279 | 179,623 |
| 06-15 | 98,193 | 3-Oct |  | 1.08 | 102,831 | 11,157 | 91,675 | 26,233 | 129,064 | 0.282 | 168,519 |

Appendix D. 21. Historical effort in the Alaskan District 111 and Subdistrict 111-32 (Taku Inlet) commercial drift gillnet fishery, 1960-2016.

| Days open are for the entire district and include openings to spawner chinook salmon, 1960-1975. |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Year | D111 |  | D111-32 |  | $\begin{array}{r} \mathrm{PU} \\ \text { Permits } \end{array}$ |
|  | Boat <br> Days | Days <br> Open | Boat 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 |
| Averages |  |  |  |  |  |
| 60-15 | 2,990 | 48 | 2,248 | 46 |  |
| 06-15 | 3,068 | 58 | 2,335 | 56 | 125 |

Appendix D. 22. Historical effort in the Canadian commercial fishery in the Taku River, 1979-2016.

|  | 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 |
| Averages |  |  |
| $79-15$ | 340 | 43 |
| $06-15$ | 375 | 58 |
|  |  |  |

Appendix D. 23. Canyon Island fish wheel salmon counts and periods of operation on the Taku River, 1984-2016.

| Total counts from both fishwheels and suppentmental gillnets when water is low |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Period of Operation | Catch |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Traditional - CYI Fish Wheel 1 and 2 |  |  |  |  | Current - CYI Fish Wheels and Downriver Fish Wheel |  |  |  | Pink |  | Steelhead |
|  |  | Chinook | Sockeye | Coho | Pink | Chum | Chinook | Sockeye | Coho | Pink | Chum even year | odd year |  |
| 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 | 164 | 1,419 | 148 | 1,838 | 15 |  |  |
| Averag |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 84-15 |  | 941 | 5,154 | 2,278 | 14,270 | 428 |  |  |  |  | 11,928 | 16,611 | 75 |
| 06-15 |  | 710 | 4,623 | 2,179 | 11,189 | 271 |  |  |  |  | 8,712 | 13,663 | 63 |

Appendix E. 1. Weekly salmon harvest and effort in the lower Alsek River fisheries, 2016.

| SW | Chinook | Sockeye | Coho | Pink | Chum | Boats | Effort <br> Days Open |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |
| Boat Days |  |  |  |  |  |  |  |

Appendix E. 2. Weekly salmon harvest and effort in the Canadian Aboriginal and sport fisheries in the Alsek River, 2016.


Appendix E. 3. Daily counts of salmon passing through Klukshu River weir, 2016.

| Date | All Chinook |  |  | Sockeye |  |  | Coho |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Daily | Cumulative |  | Daily | Cumulative |  | Daily | Cumulative |  |
|  |  | Daily | Prop. |  | Daily | Prop. |  | Daily | Prop. |
| 15-Jun | weir installed | 0 | 0.000 | weir installed | 0 | 0.000 | weir installed | 0 | 0.000 |
| 15-Jun | 2 | 2 | 0.003 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 16-Jun | 0 | 2 | 0.003 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 17-Jun | 0 | 2 | 0.003 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 18-Jun | 2 | 4 | 0.006 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 19-Jun | 1 | 5 | 0.008 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 20-Jun | 2 | 7 | 0.011 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 21-Jun | 3 | 10 | 0.015 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 22-Jun | 2 | 12 | 0.018 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 23-Jun | 3 | 15 | 0.023 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 24-Jun | 3 | 18 | 0.028 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 25-Jun | 2 | 20 | 0.031 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 26-Jun | 0 | 20 | 0.031 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 27-Jun | 2 | 22 | 0.034 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 28-Jun | 6 | 28 | 0.043 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 29-Jun | 0 | 28 | 0.043 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 30-Jun | 0 | 28 | 0.043 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 1-Jul | 2 | 30 | 0.046 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 2-Jul | 0 | 30 | 0.046 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 3-Jul | 3 | 33 | 0.051 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 4-Jul | 1 | 34 | 0.052 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 5-Jul | 3 | 37 | 0.057 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 6-Jul | 5 | 42 | 0.065 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 7-Jul | 4 | 46 | 0.071 | 1 | 1 | 0.000 | 0 | 0 | 0.000 |
| 8-Jul | 7 | 53 | 0.081 | 0 | 1 | 0.000 | 0 | 0 | 0.000 |
| 9-Jul | 11 | 64 | 0.098 | 0 | 1 | 0.000 | 0 | 0 | 0.000 |
| 10-Jul | 7 | 71 | 0.109 | 2 | 3 | 0.000 | 0 | 0 | 0.000 |
| 11-Jul | 4 | 75 | 0.115 | 29 | 32 | 0.004 | 0 | 0 | 0.000 |
| 12-Jul | 7 | 82 | 0.126 | 0 | 32 | 0.004 | 0 | 0 | 0.000 |
| 13-Jul | 17 | 99 | 0.152 | 23 | 55 | 0.007 | 0 | 0 | 0.000 |
| 14-Jul | 19 | 118 | 0.181 | 0 | 55 | 0.007 | 0 | 0 | 0.000 |
| 15-Jul | 14 | 132 | 0.203 | 2 | 57 | 0.008 | 0 | 0 | 0.000 |
| 16-Jul | 4 | 136 | 0.209 | 26 | 83 | 0.011 | 0 | 0 | 0.000 |
| 17-Jul | 6 | 142 | 0.218 | 0 | 83 | 0.011 | 0 | 0 | 0.000 |
| 18-Jul | 1 | 143 | 0.220 | 2 | 85 | 0.011 | 0 | 0 | 0.000 |
| 19-Jul | 18 | 161 | 0.247 | 90 | 175 | 0.023 | 0 | 0 | 0.000 |
| 20-Jul | 102 | 263 | 0.404 | 5 | 180 | 0.024 | 0 | 0 | 0.000 |
| 21-Jul | 21 | 284 | 0.436 | 4 | 184 | 0.024 | 0 | 0 | 0.000 |
| 22-Jul | 5 | 289 | 0.444 | 7 | 191 | 0.025 | 0 | 0 | 0.000 |
| 23-Jul | 10 | 299 | 0.459 | 0 | 191 | 0.025 | 0 | 0 | 0.000 |
| 24-Jul | 29 | 328 | 0.504 | 4 | 195 | 0.026 | 0 | 0 | 0.000 |
| 25-Jul | 93 | 421 | 0.647 | 8 | 203 | 0.027 | 0 | 0 | 0.000 |
| 26-Jul | 14 | 435 | 0.668 | 2 | 205 | 0.027 | 0 | 0 | 0.000 |
| 27-Jul | 32 | 467 | 0.717 | 18 | 223 | 0.029 | 0 | 0 | 0.000 |
| 28-Jul | 26 | 493 | 0.757 | 16 | 239 | 0.032 | 0 | 0 | 0.000 |
| 29-Jul | 16 | 509 | 0.782 | 90 | 329 | 0.043 | 0 | 0 | 0.000 |
| 30-Jul | 52 | 561 | 0.862 | 16 | 345 | 0.045 | 0 | 0 | 0.000 |
| 31-Jul | 6 | 567 | 0.871 | 0 | 345 | 0.045 | 0 | 0 | 0.000 |
| 1-Aug | 3 | 570 | 0.876 | 1 | 346 | 0.046 | 0 | 0 | 0.000 |
| 2-Aug | 5 | 575 | 0.883 | 56 | 402 | 0.053 | 0 | 0 | 0.000 |
| 3-Aug | 16 | 591 | 0.908 | 35 | 437 | 0.058 | 0 | 0 | 0.000 |
| 4-Aug | 7 | 598 | 0.919 | 0 | 437 | 0.058 | 0 | 0 | 0.000 |
| 5-Aug | 1 | 599 | 0.920 | 152 | 589 | 0.078 | 0 | 0 | 0.000 |
| 6-Aug | 13 | 612 | 0.940 | 185 | 774 | 0.102 | 0 | 0 | 0.000 |
| 7-Aug | 6 | 618 | 0.949 | 75 | 849 | 0.112 | 0 | 0 | 0.000 |
| 8-Aug | 4 | 622 | 0.955 | 52 | 901 | 0.119 | 0 | 0 | 0.000 |
| 9-Aug | 4 | 626 | 0.962 | 110 | 1,011 | 0.133 | 0 | 0 | 0.000 |
|  |  |  |  | ontinued |  |  |  |  |  |

Appendix E.3. Page 2 of 2.

| Date | All Chinook |  |  | Sockeye |  |  | Coho |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Daily | Cumulative |  | Daily | Cumulative |  | Daily | Cumulative |  |
|  |  | Daily | Prop. |  | Daily | Prop. |  | Daily | Prop. |
| 10-Aug | 7 | 633 | 0.972 | 139 | 1,150 | 0.152 | 0 | 0 | 0.000 |
| 11-Aug | 3 | 636 | 0.977 | 157 | 1,307 | 0.172 | 0 | 0 | 0.000 |
| 12-Aug | 2 | 638 | 0.980 | 40 | 1,347 | 0.178 | 0 | 0 | 0.000 |
| 13-Aug | 2 | 640 | 0.983 | 0 | 1,347 | 0.178 | 0 | 0 | 0.000 |
| 14-Aug | 1 | 641 | 0.985 | 34 | 1,381 | 0.182 | 0 | 0 | 0.000 |
| 15-Aug | 1 | 642 | 0.986 | 24 | 1,405 | 0.185 | 0 | 0 | 0.000 |
| 16-Aug | 1 | 643 | 0.988 | 193 | 1,598 | 0.211 | 0 | 0 | 0.000 |
| 17-Aug | 1 | 644 | 0.989 | 70 | 1,668 | 0.220 | 0 | 0 | 0.000 |
| 18-Aug | 0 | 644 | 0.989 | 0 | 1,668 | 0.220 | 0 | 0 | 0.000 |
| 19-Aug | 3 | 647 | 0.994 | 122 | 1,790 | 0.236 | 0 | 0 | 0.000 |
| 20-Aug | 0 | 647 | 0.994 | 49 | 1,839 | 0.242 | 0 | 0 | 0.000 |
| 21-Aug | 2 | 649 | 0.997 | 389 | 2,228 | 0.294 | 0 | 0 | 0.000 |
| 22-Aug | 0 | 649 | 0.997 | 202 | 2,430 | 0.320 | 0 | 0 | 0.000 |
| 23-Aug | 0 | 649 | 0.997 | 24 | 2,454 | 0.324 | 0 | 0 | 0.000 |
| 24-Aug | 1 | 650 | 0.998 | 119 | 2,573 | 0.339 | 0 | 0 | 0.000 |
| 25-Aug | 0 | 650 | 0.998 | 728 | 3,301 | 0.435 | 0 | 0 | 0.000 |
| 26-Aug | 0 | 650 | 0.998 | 255 | 3,556 | 0.469 | 0 | 0 | 0.000 |
| 27-Aug | 0 | 650 | 0.998 | 59 | 3,615 | 0.477 | 0 | 0 | 0.000 |
| 28-Aug | 0 | 650 | 0.998 | 53 | 3,668 | 0.484 | 0 | 0 | 0.000 |
| 29-Aug | 0 | 650 | 0.998 | 272 | 3,940 | 0.520 | 0 | 0 | 0.000 |
| 30-Aug | 1 | 651 | 1.000 | 297 | 4,237 | 0.559 | 0 | 0 | 0.000 |
| 31-Aug | 0 | 651 | 1.000 | 54 | 4,291 | 0.566 | 0 | 0 | 0.000 |
| 1-Sep | 0 | 651 | 1.000 | 203 | 4,494 | 0.593 | 0 | 0 | 0.000 |
| 2-Sep | 0 | 651 | 1.000 | 201 | 4,695 | 0.619 | 0 | 0 | 0.000 |
| 3-Sep | 0 | 651 | 1.000 | 212 | 4,907 | 0.647 | 0 | 0 | 0.000 |
| 4-Sep | 0 | 651 | 1.000 | 182 | 5,089 | 0.671 | 0 | 0 | 0.000 |
| 5-Sep | 0 | 651 | 1.000 | 248 | 5,337 | 0.704 | 0 | 0 | 0.000 |
| 6-Sep | 0 | 651 | 1.000 | 177 | 5,514 | 0.727 | 0 | 0 | 0.000 |
| 7-Sep | 0 | 651 | 1.000 | 16 | 5,530 | 0.729 | 0 | 0 | 0.000 |
| 8-Sep | 0 | 651 | 1.000 | 26 | 5,556 | 0.733 | 0 | 0 | 0.000 |
| 9-Sep | 0 | 651 | 1.000 | 175 | 5,731 | 0.756 | 0 | 0 | 0.000 |
| 10-Sep | 0 | 651 | 1.000 | 590 | 6,321 | 0.833 | 3 | 3 | 0.001 |
| 11-Sep | 0 | 651 | 1.000 | 10 | 6,331 | 0.835 | 0 | 3 | 0.001 |
| 12-Sep | 0 | 651 | 1.000 | 114 | 6,445 | 0.850 | 0 | 3 | 0.001 |
| 13-Sep | 0 | 651 | 1.000 | 123 | 6,568 | 0.866 | 12 | 15 | 0.007 |
| 14-Sep | 0 | 651 | 1.000 | 45 | 6,613 | 0.872 | 10 | 25 | 0.012 |
| 15-Sep | 0 | 651 | 1.000 | 55 | 6,668 | 0.879 | 0 | 25 | 0.012 |
| 16-Sep | 0 | 651 | 1.000 | 18 | 6,686 | 0.882 | 0 | 25 | 0.012 |
| 17-Sep | 0 | 651 | 1.000 | 46 | 6,732 | 0.888 | 0 | 25 | 0.012 |
| 18-Sep | 0 | 651 | 1.000 | 55 | 6,787 | 0.895 | 0 | 25 | 0.012 |
| 19-Sep | 0 | 651 | 1.000 | 130 | 6,917 | 0.912 | 0 | 25 | 0.012 |
| 20-Sep | 0 | 651 | 1.000 | 44 | 6,961 | 0.918 | 0 | 25 | 0.012 |
| 21-Sep | 0 | 651 | 1.000 | 69 | 7,030 | 0.927 | 0 | 25 | 0.012 |
| 22-Sep | 0 | 651 | 1.000 | 134 | 7,164 | 0.945 | 16 | 41 | 0.019 |
| 23-Sep | 0 | 651 | 1.000 | 77 | 7,241 | 0.955 | 1 | 42 | 0.020 |
| 24-Sep | 0 | 651 | 1.000 | 54 | 7,295 | 0.962 | 9 | 51 | 0.024 |
| 25-Sep | 0 | 651 | 1.000 | 52 | 7,347 | 0.969 | 5 | 56 | 0.026 |
| 26-Sep | 0 | 651 | 1.000 | 31 | 7,378 | 0.973 | 6 | 62 | 0.029 |
| 27-Sep | 0 | 651 | 1.000 | 52 | 7,430 | 0.980 | 63 | 125 | 0.058 |
| 28-Sep | 0 | 651 | 1.000 | 13 | 7,443 | 0.981 | 68 | 193 | 0.090 |
| 29-Sep | 0 | 651 | 1.000 | 36 | 7,479 | 0.986 | 106 | 299 | 0.140 |
| 30-Sep | 0 | 651 | 1.000 | 22 | 7,501 | 0.989 | 143 | 442 | 0.206 |
| 1-Oct | 0 | 651 | 1.000 | 28 | 7,529 | 0.993 | 185 | 627 | 0.293 |
| 2-Oct | 0 | 651 | 1.000 | 7 | 7,536 | 0.994 | 233 | 860 | 0.402 |
| 3-Oct | 0 | 651 | 1.000 | 9 | 7,545 | 0.995 | 134 | 994 | 0.464 |
| 4-Oct | 0 | 651 | 1.000 | 8 | 7,553 | 0.996 | 165 | 1,159 | 0.541 |
| 5-Oct | 0 | 651 | 1.000 | 22 | 7,575 | 0.999 | 770 | 1,929 | 0.901 |
| 6-Oct | 0 | 651 | 1.000 | 9 | 7,584 | 1.000 | 212 | 2,141 | 1.000 |
| 6-Oct | weir removed | 651 | 1.000 | weir removed | 7,584 | 1.000 | weir removed | 2,141 | 1.000 |
| Total Count |  | 651 |  |  | 7,584 |  |  | 2,141 |  |
| Adjustments |  |  |  |  |  |  |  |  |  |
| Harvest at weir |  |  |  |  | 37 |  |  |  |  |
| Harvest above weir |  |  |  |  |  |  |  |  |  |
| Total Escapement | - | 651 |  |  | 7,547 |  |  | 2,141 |  |

Appendix E. 4. Chinook salmon harvest in the U.S. fisheries in the Alsek River, 1960-

| 2016. |  |  |  |
| :---: | :---: | :---: | :---: |
| 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 |  | 42 |
| 2012 | 510 | 251 | 50 |
| 2013 | 469 |  | 13 |
| 2014 | 1,074 |  | 23 |
| 2015 | 243 |  | 5 |
| 2016 | 132 |  | 8 |
| Averages |  |  |  |
| 61-15 | 713 |  | 41 |
| 06-15 | 478 |  | 42 |

Appendix E. 5. Klukshu River weir counts, harvest, and escapement of all Chinook salmon, 1976-2016.
A portion of Klukshu River Chinook salmon harvested below weir are accounted for in drainagewide see estimate E.6.

| Year | Weir <br> Count | Harvest |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  | At weir | Above weir | Escapement |
| 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 |
| Averages |  |  |  |  |
| 76-15 | 2,133 |  | 164 | 1,969 |
| 06-15 | 1,154 |  | 30 | 1,124 |

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

Appendix E. 6. Chinook salmon harvest in the Canadian Aboriginal and recreational fisheries in the Alsek River, 1998-2004.

| All Klukshu harvest is included in the Alsek River harvest totals. |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | CI |  | Harvest |  |  | Escapement | $\begin{gathered} \text { Total } \\ \text { Inriver run } \end{gathered}$ |
| Year | Above border run | Method ${ }^{\text {a }}$ | Lower | Upper | Aboriginal | Recreational | Total |  |  |
| 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. 7. Aerial survey index counts of Alsek River Chinook salmon escapements, 1984-2016.

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

[^3]Appendix E. 8. Sockeye salmon harvest in the U.S. fisheries in the Alsek River, 1960-

| 2016. |  |  |  |
| :---: | :---: | :---: | :---: |
| 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 |  | 245 |
| 2010 | 12,668 |  | 259 |
| 2011 | 24,169 | 157 | 175 |
| 2012 | 18,217 | 90 | 167 |
| 2013 | 7,517 |  | 102 |
| 2014 | 33,668 |  | 60 |
| 2015 | 16,104 |  | 111 |
| 2016 | 6,709 |  | 922 |
| Averages |  |  |  |
| 61-14 | 19,948 |  | 138 |
| 05-14 | 14,917 |  | 184 |

Appendix E. 9. Klukshu River sockeye salmon weir count, weir harvest, and escapement, 19762016.

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 <br> 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 |
| Averages |  |  |  |  |  |  |
| 76-15 | 3,027 | 12,747 | 15,774 |  |  | 14,061 |
| 06-15 | 2,659 | 9,022 | 11,680 |  |  | 11,328 |

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

Appendix E. 10. Sockeye salmon harvest in the Canadian Aboriginal and recreational fisheries in the Alsek River, 1976-2016.
Harvest of Klukshu River sockeye salmon below the weir
is included in harvest estimates

| 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 |
| Averages |  |  |  |
| 76-15 | 2,160 | 256 | 2,416 |
| 06-15 | 1,159 | 14 | 1,173 |

Appendix E. 11. Alsek River sockeye salmon escapement, 2000-2006, 2012-2016.

| 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. |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Above border Run | CI |  | Canadian | Spawning | U.S. | Total | Spawning Escapement |
| Year | Estimate | Lower | Upper | Harvest | Escapement | Harvest | Inriver Run | Percent Klukshu |
| 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 | 24,501 | 110,510 | 24.8\% |
| 2012 | 78,384 | 64,311 | 92,456 | 1,786 | 76,598 | 18,474 | 96,858 | 22.4\% |
| 2013 | 84,279 | 16,466 | 152,091 | 508 | 83,771 | 7,619 | 91,898 | 4.5\% |
| 2014 | 88,233 | 69,508 | 106,958 | 1,140 | 87,093 | 33,728 | 121,961 | 13.9\% |
| 2015 | 64,793 | 47,474 | 82,111 | 1,084 | 63,709 | 16,215 | 81,008 | 17.8\% |
| 2016 | 59,651 | 43,558 | 75,743 | 815 | 58,836 | 7,631 | 67,282 | 12.6\% |
| Averages |  |  |  |  |  |  |  |  |
| 11-15 | 80,340 |  |  | 1,326 | 79,014 | 20,107 | 100,447 | 16.7\% |

Appendix E. 12. Alsek River sockeye counts from U.S. and Canada, 1985-2016.
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 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Basin Creek | Cabin Creek | Muddy Creek | Tanis River | Tatshenshini River | Neskataheen Lake | Village Creek Counter |
| 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 |
| Averages |  |  |  |  |  |  |  |
| 86-14 |  |  |  |  |  |  | 2,596 |
| 06-14 |  |  |  |  |  |  | 1,985 |

Appendix E. 13. Coho, pink, and chum salmon harvest in the U.S. fisheries in the Alsek River, 1960-2016.

|  | 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 | 0 |
| 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 | 0 |
| 2015 | 11 | 0 | 0 | 227 | 57.0 | 6 |
| 2016 | 655 | 0 | 3 | 166 | 65.5 | 18 |
| Averages |  |  |  |  |  |  |
| 76-15 | 5,050 | 32 | 266 | 510 | 50.6 | 28 |
| 06-15 | 1,102 | 0 | 6 | 246 | 44.2 | 16 |

Appendix E. 14. Klukshu River weir count, harvest, and escapement of coho salmon, 1976-2016.
Coho salmon counts are partial counts; weir is removed prior to the end of the run.

| Year | Count | harvest | Escape |
| :---: | :---: | :---: | :---: |
| 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 | 7,322 | 0 | 7,322 |
| 2014 | 341 | 0 | 341 |
| 2015 | 1,810 | 0 | 1,810 |
| 2016 | 2,141 | 0 | 2,141 |


| Averages |  |  |  |
| :--- | :--- | :--- | :--- |
| $76-15$ | 1,977 | 4 | 2,061 |
| $06-15$ | 2,065 | 4 |  |

[^4]Appendix F. 1. Tahltan Lake egg collection, fry plants, and survivals, 1989-2016.
Numbers for eggs and fry are millions.
Eggs collected from Tahltan broodstock are used for outplants to both Tahltan and Tuya Lakes.

| Brood Year | Egg Take |  | Designated <br> Tahltan | Fry <br> Planted | Percent Survival |  |  | Thermal <br> Mark <br> Pattern |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | 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 | $1,4 \mathrm{H} \& 14 \mathrm{H} 4$ |
| 2016 | 4.910 | 5.310 | 5.310 | 3.136 | 76\% | 0.780 | 0.591 | 4,3H \& 3n,3H |
| Averages |  |  |  |  |  |  |  |  |
| 89-16 | 5.761 | 4.605 | 2.844 | 1.977 | 0.850 | 0.832 | 0.715 |  |
| 07-16 | 5.891 | 4.788 | 3.460 | 2.076 | 0.794 | 0.761 | 0.599 |  |

[^5]Appendix F. 2. Tuya Lake fry plants and survivals, 1991-2016.

| Numbers for eggs and fry are millions. |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Egg Take |  |  | Survi |  | Thermal |
|  | Designated | Fry | Percent | Fertilized | Green | Mark |
| Brood Year | Tuya | Planted | Fertilized | Egg to Fry | gg 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 | $1: 1.4+2.5 n$ |
| 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 | 0.000 | 0 |  |  |  |  |
| 2015 | 0.000 | 0 |  |  |  |  |
| 2016 | 0.000 | 0 |  |  |  |  |


| 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, 1989-2016.

| Brood Year | Egg Take |  |  | Survival |  |  |  | Thermal Mark Pattern(s) | Last |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Fry | Percent | tilized | Green |  | Date |
|  | Target | Collected | Transport | Planted Fertilized Egg to Fry Egg to Fry |  |  |  |  | Released |
| 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\&1:1.5,2.3 | 27-Jun |
| 1997 | 5.000 | 4.651 | 3.597 | 3.597 | 0.910 | 0.773 | 0.773 | 2:1\&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\&2:1.5,2.3 | 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 | $2 \mathrm{n} 3 \& 2,3 \mathrm{n}, 1 \& 1,3 \mathrm{n}, 2 \& 3,2 \mathrm{n}, 1$ | 6-Jun |
| 2008 | 5.000 | 4.902 | 3.874 | 3.871 | 0.892 | 0.900 | 0.790 | $3,2 \mathrm{H} \& 3,3 \mathrm{H}$ | 3-Jun |
| 2009 | 5.000 | 1.224 | 0.717 | 0.716 | 0.852 | 0.586 | 0.585 | 6,2H \& 3n, 2 H | 22-May |
| 2010 | 2.000 | 1.896 | 1.599 | 1.599 | 0.919 | 0.842 | 0.843 | 2,1,2H \& 2,2,3H | 29-May |
| 2011 | 2.000 | 2.190 | 1.893 | 1.893 | 0.912 | 0.864 | 0.864 | $3 \mathrm{n}, 5 \mathrm{H} \& 6,2 \mathrm{H}$ | 29-May |
| 2012 | 2.000 | 1.836 | 1.636 | 1.636 | 0.955 | 0.933 | 0.891 | $3 \mathrm{n}, 2 \mathrm{H} \& 3,3 \mathrm{H}$ | 1-Jun |
| 2013 | 2.000 | 1.812 | 1.325 | 1.321 | 0.758 | 0.590 | 0.587 | $2,1,2 \mathrm{H} \& 2,2,3 \mathrm{H}$ | 6-Jun |
| 2014 | 2.000 | 1.289 | 0.918 | 0.918 | 0.869 | 0.716 | 0.712 | $3 \mathrm{n}, 5 \mathrm{H} \& 6,2 \mathrm{H}$ | 30-May |
| 2015 | 2.000 | 0.731 | 0.471 | 0.471 | 0.801 | 0.646 | 0.644 | $3,2 \mathrm{H} \& 3,3 \mathrm{H}$ | 27-May |
| 2016 | 2.000 | 1.773 | 1.201 | 1.201 | 0.734 | 0.923 | 0.678 | 2,1,2H \& 2,2,3H | 27-Jul |
| Averages |  |  |  |  |  |  |  |  |  |
| 90-16 | 3.261 | 2.300 | 1.690 | 1.658 | 0.865 | 0.750 | 0.714 |  |  |
| 07-16 | 2.900 | 2.133 | 1.616 | 1.575 | 0.858 | 0.769 | 0.717 |  |  |



Appendix F.4. Trapper and King Salmon lakes egg collection, fry plants, and survivals, 1990-2016.

| Numbers for eggs and fry are millions. |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Brood Year | Lake | Egg Take |  |  | FryPlanted | Percent <br> Fertilized | Survival |  | Thermal Mark Pattern |  |
|  |  |  |  |  | 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 | 7H3 | 22-Jun |
| 1993 | Trapper |  | 1.174 | 0.916 | 0.916 |  |  | 0.781 | 5H5n | 24-Jun |
| 1994 | Trapper |  | 1.117 | 0.773 | 0.773 |  |  | 0.692 | 7H | 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 |

Appendix G. 1. Annual stock proportion estimates (mean) of Chinook salmon harvested in the Alaskan District 108 commercial drift gillnet, 2016.

| Year | Sample Size |  | Reporting Groups |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  | Taku/Stikine | Other |
| 2004 | 119 | Estimate | 0.299 | 0.701 |
|  |  | SD | 0.052 | 0.052 |
|  |  | Lo | 0.216 | 0.614 |
|  |  | Hi | 0.386 | 0.784 |
| 2005 | 254 | Estimate | 0.887 | 0.113 |
|  |  | SD | 0.026 | 0.026 |
|  |  | Lo | 0.842 | 0.073 |
|  |  | Hi | 0.927 | 0.158 |
| 2006 | 350 | Estimate | 0.642 | 0.358 |
|  |  | SD | 0.034 | 0.034 |
|  |  | Lo | 0.585 | 0.304 |
|  |  | Hi | 0.696 | 0.415 |
| 2007 | 292 | Estimate | 0.489 | 0.511 |
|  |  | SD | 0.036 | 0.036 |
|  |  | Lo | 0.430 | 0.451 |
|  |  | Hi | 0.549 | 0.570 |
| 2008 | 293 | Estimate | 0.387 | 0.613 |
|  |  | SD | 0.035 | 0.035 |
|  |  | Lo | 0.330 | 0.555 |
|  |  | Hi | 0.445 | 0.670 |
| 2009 | 177 | Estimate | 0.128 | 0.872 |
|  |  | SD | 0.031 | 0.031 |
|  |  | Lo | 0.080 | 0.817 |
|  |  | Hi | 0.183 | 0.920 |
| 2010 | 72 | Estimate | 0.215 | 0.785 |
|  |  | SD | 0.067 | 0.067 |
|  |  | Lo | 0.109 | 0.669 |
|  |  | Hi | 0.331 | 0.891 |
| 2011 | 70 | Estimate | 0.346 | 0.654 |
|  |  | SD | 0.067 | 0.067 |
|  |  | Lo | 0.239 | 0.540 |
|  |  | Hi | 0.460 | 0.761 |
| 2012 | 202 | Estimate | 0.248 | 0.752 |
|  |  | SD | 0.036 | 0.036 |
|  |  | Lo | 0.189 | 0.691 |
|  |  | Hi | 0.309 | 0.811 |
| 2013 | 164 | Estimate | 0.068 | 0.932 |
|  |  | SD | 0.029 | 0.029 |
|  |  | Lo | 0.025 | 0.879 |
|  |  | Hi | 0.121 | 0.975 |
| 2014 | 273 | Estimate | 0.043 | 0.957 |
|  |  | SD | 0.018 | 0.018 |
|  |  | Lo | 0.019 | 0.927 |
|  |  | Hi | 0.073 | 0.981 |
| 2015 | 272 | Estimate | 0.047 | 0.953 |
|  |  | SD | 0.021 | 0.021 |
|  |  | Lo | 0.016 | 0.916 |
|  |  | Hi | 0.084 | 0.984 |
| 2016 | 293 | Estimate | 0.220 | 0.780 |
|  |  | SD | 0.029 | 0.029 |
|  |  | Lo | 0.173 | 0.731 |
|  |  | Hi | 0.269 | 0.827 |

Appendix G. 2. Annual stock proportion estimates (mean) of Chinook salmon harvested in the Alaskan District 108 sport fisheries, 2016.

| Year | Sample Size |  | Reporting Groups |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  | Taku/Stikine | Other |
| 2004 | 189 | Estimate | 0.655 | 0.345 |
|  |  | SD | 0.043 | 0.043 |
|  |  | Lo | 0.583 | 0.276 |
|  |  | Hi | 0.724 | 0.417 |
| 2005 | 226 | Estimate | 0.738 | 0.262 |
|  |  | SD | 0.038 | 0.038 |
|  |  | Lo | 0.674 | 0.201 |
|  |  | Hi | 0.799 | 0.326 |
| 2006 | 201 | Estimate | 0.718 | 0.282 |
|  |  | SD | 0.042 | 0.042 |
|  |  | Lo | 0.648 | 0.216 |
|  |  | Hi | 0.784 | 0.352 |
| 2007 | 200 | Estimate | 0.604 | 0.396 |
|  |  | SD | 0.043 | 0.043 |
|  |  | Lo | 0.532 | 0.326 |
|  |  | Hi | 0.674 | 0.468 |
| 2008 | 200 | Estimate | 0.614 | 0.386 |
|  |  | SD | 0.045 | 0.045 |
|  |  | Lo | 0.539 | 0.314 |
|  |  | Hi | 0.686 | 0.461 |
| 2009 | 190 | Estimate | 0.517 | 0.483 |
|  |  | SD | 0.044 | 0.044 |
|  |  | Lo | 0.445 | 0.412 |
|  |  | Hi | 0.588 | 0.555 |
| 2010 | 201 | Estimate | 0.546 | 0.454 |
|  |  | SD | 0.043 | 0.043 |
|  |  | Lo | 0.475 | 0.382 |
|  |  | Hi | 0.618 | 0.525 |
| 2011 | 199 | Estimate | 0.509 | 0.491 |
|  |  | SD | 0.050 | 0.050 |
|  |  | Lo | 0.427 | 0.407 |
|  |  | Hi | 0.593 | 0.573 |
| 2012 | 201 | Estimate | 0.423 | 0.577 |
|  |  | SD | 0.045 | 0.045 |
|  |  | Lo | 0.350 | 0.502 |
|  |  | Hi | 0.498 | 0.650 |
| 2013 | 223 | Estimate | 0.490 | 0.510 |
|  |  | SD | 0.042 | 0.042 |
|  |  | Lo | 0.422 | 0.442 |
|  |  | Hi | 0.558 | 0.578 |
| 2014 | 205 | Estimate | 0.354 | 0.646 |
|  |  | SD | 0.043 | 0.044 |
|  |  | Lo | 0.285 | 0.575 |
|  |  | Hi | 0.425 | 0.715 |
| 2015 | 297 | Estimate | 0.449 | 0.551 |
|  |  | SD | 0.036 | 0.036 |
|  |  | Lo | 0.390 | 0.492 |
|  |  | Hi | 0.508 | 0.610 |
| 2016 | 251 | Estimate | 0.304 | 0.696 |
|  |  | SD | 0.038 | 0.038 |
|  |  | Lo | 0.242 | 0.634 |
|  |  | Hi | 0.366 | 0.758 |

Appendix G. 3. Annual stock proportion estimates (mean) of Chinook salmon harvested in the Alaskan District 108 commercial troll, 2016.

| Year | Sample Size |  | Reporting Groups |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  | Taku/Stikine | Other |
| 2004 |  | Estimate |  |  |
|  |  | SD |  |  |
|  |  | Lo |  |  |
|  |  | Hi |  |  |
| 2005 | 118 | Estimate | 0.592 | 0.408 |
|  |  | SD | 0.059 | 0.059 |
|  |  | Lo | 0.494 | 0.313 |
|  |  | Hi | 0.687 | 0.506 |
| 2006 | 166 | Estimate | 0.487 | 0.513 |
|  |  | SD | 0.047 | 0.047 |
|  |  | Lo | 0.410 | 0.436 |
|  |  | Hi | 0.564 | 0.590 |
| 2007 | 217 | Estimate | 0.640 | 0.360 |
|  |  | SD | 0.041 | 0.041 |
|  |  | Lo | 0.572 | 0.294 |
|  |  | Hi | 0.706 | 0.428 |
| 2008 | 200 | Estimate | 0.546 | 0.454 |
|  |  | SD | 0.047 | 0.047 |
|  |  | Lo | 0.469 | 0.377 |
|  |  | Hi | 0.623 | 0.531 |
| 2009 |  | Estimate |  |  |
|  |  | SD |  |  |
|  |  | Lo |  |  |
|  |  | Hi |  |  |
| 2010 |  | Estimate |  |  |
|  |  | SD |  |  |
|  |  | Lo |  |  |
|  |  | Hi |  |  |
| 2011 |  | Estimate |  |  |
|  |  | SD |  |  |
|  |  | Lo |  |  |
|  |  | Hi |  |  |
| 2012 |  | Estimate |  |  |
|  |  | SD |  |  |
|  |  | Lo |  |  |
|  |  | Hi |  |  |
| 2013 |  | Estimate |  |  |
|  |  | SD |  |  |
|  |  | Lo |  |  |
|  |  | Hi |  |  |
| 2014 |  | Estimate |  |  |
|  |  | SD |  |  |
|  |  | Lo |  |  |
|  |  | Hi |  |  |
| 2015 |  | Estimate |  |  |
|  |  | SD |  |  |
|  |  | Lo |  |  |
|  |  | Hi |  |  |
| 2016 | 197 | Estimate | 0.184 | 0.816 |
|  |  | SD | 0.034 | 0.034 |
|  |  | Lo | 0.131 | 0.758 |
|  |  | Hi | 0.242 | 0.869 |

Appendix G. 4. Annual stock proportion estimates (mean) of Chinook salmon harvested in the Alaskan District 111 commercial drift gillnet, 2016.

| Year | Sample Size |  | Reporting Groups |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  | Taku/Stikine | Other |
| 2004 | 111 | Estimate | 0.859 | 0.141 |
|  |  | SD | 0.036 | 0.036 |
|  |  | Lo | 0.795 | 0.085 |
|  |  | Hi | 0.915 | 0.205 |
| 2005 | 247 | Estimate | 0.919 | 0.081 |
|  |  | SD | 0.021 | 0.021 |
|  |  | Lo | 0.882 | 0.050 |
|  |  | Hi | 0.950 | 0.118 |
| 2006 | 209 | Estimate | 0.905 | 0.095 |
|  |  | SD | 0.024 | 0.024 |
|  |  | Lo | 0.863 | 0.059 |
|  |  | Hi | 0.941 | 0.137 |
| 2007 | 96 | Estimate | 0.492 | 0.508 |
|  |  | SD | 0.054 | 0.054 |
|  |  | Lo | 0.404 | 0.419 |
|  |  | Hi | 0.581 | 0.596 |
| 2008 | 104 | Estimate | 0.483 | 0.517 |
|  |  | SD | 0.053 | 0.053 |
|  |  | Lo | 0.397 | 0.430 |
|  |  | Hi | 0.570 | 0.603 |
| 2009 | 257 | Estimate | 0.813 | 0.187 |
|  |  | SD | 0.027 | 0.027 |
|  |  | Lo | 0.766 | 0.145 |
|  |  | Hi | 0.855 | 0.234 |
| 2010 | 152 | Estimate | 0.539 | 0.461 |
|  |  | SD | 0.042 | 0.042 |
|  |  | Lo | 0.469 | 0.391 |
|  |  | Hi | 0.609 | 0.531 |
| 2011 | 70 | Estimate | 0.809 | 0.191 |
|  |  | SD | 0.052 | 0.052 |
|  |  | Lo | 0.718 | 0.113 |
|  |  | Hi | 0.887 | 0.282 |
| 2012 | 206 | Estimate | 0.876 | 0.124 |
|  |  | SD | 0.027 | 0.027 |
|  |  | Lo | 0.830 | 0.082 |
|  |  | Hi | 0.918 | 0.170 |
| 2013 | 86 | Estimate | 0.753 | 0.247 |
|  |  | SD | 0.051 | 0.051 |
|  |  | Lo | 0.666 | 0.167 |
|  |  | Hi | 0.833 | 0.334 |
| 2014 | 78 | Estimate | 0.635 | 0.365 |
|  |  | SD | 0.060 | 0.061 |
|  |  | Lo | 0.534 | 0.268 |
|  |  | Hi | 0.732 | 0.466 |
| 2015 | 88 | Estimate | 0.592 | 0.408 |
|  |  | SD | 0.055 | 0.055 |
|  |  | Lo | 0.500 | 0.319 |
|  |  | Hi | 0.681 | 0.500 |
| 2016 | 49 | Estimate | 0.749 | 0.251 |
|  |  | $S D$ | 0.065 | 0.065 |
|  |  | Lo | 0.636 | 0.150 |
|  |  | Hi | 0.850 | 0.364 |

Appendix G. 5. Annual stock proportion estimates (mean) of Chinook salmon harvested in the Alaskan District 111 sport fisheries, 2016.

| Year | Sample Size |  | Reporting Groups |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  | Taku/Stikine | Other |
| 2004 | 159 | Estimate | 0.538 | 0.462 |
|  |  | SD | 0.043 | 0.043 |
|  |  | Lo | 0.467 | 0.392 |
|  |  | Hi | 0.608 | 0.533 |
| 2005 | 264 | Estimate | 0.578 | 0.422 |
|  |  | SD | 0.035 | 0.035 |
|  |  | Lo | 0.521 | 0.366 |
|  |  | Hi | 0.634 | 0.479 |
| 2006 | 269 | Estimate | 0.652 | 0.348 |
|  |  | SD | 0.032 | 0.032 |
|  |  | Lo | 0.599 | 0.295 |
|  |  | Hi | 0.705 | 0.401 |
| 2007 | 237 | Estimate | 0.451 | 0.549 |
|  |  | SD | 0.035 | 0.035 |
|  |  | Lo | 0.394 | 0.491 |
|  |  | Hi | 0.509 | 0.606 |
| 2008 | 218 | Estimate | 0.226 | 0.774 |
|  |  | SD | 0.032 | 0.032 |
|  |  | Lo | 0.176 | 0.720 |
|  |  | Hi | 0.280 | 0.824 |
| 2009 | 239 | Estimate | 0.255 | 0.745 |
|  |  | SD | 0.030 | 0.030 |
|  |  | Lo | 0.206 | 0.694 |
|  |  | Hi | 0.306 | 0.794 |
| 2010 | 200 | Estimate | 0.453 | 0.547 |
|  |  | SD | 0.038 | 0.038 |
|  |  | Lo | 0.391 | 0.484 |
|  |  | Hi | 0.516 | 0.609 |
| 2011 | 200 | Estimate | 0.454 | 0.546 |
|  |  | SD | 0.040 | 0.040 |
|  |  | Lo | 0.389 | 0.480 |
|  |  | Hi | 0.520 | 0.611 |
| 2012 | 200 | Estimate | 0.494 | 0.506 |
|  |  | SD | 0.039 | 0.039 |
|  |  | Lo | 0.429 | 0.441 |
|  |  | Hi | 0.559 | 0.571 |
| 2013 | 224 | Estimate | 0.125 | 0.875 |
|  |  | SD | 0.025 | 0.025 |
|  |  | Lo | 0.086 | 0.831 |
|  |  | Hi | 0.169 | 0.914 |
| 2014 | 221 | Estimate | 0.396 | 0.604 |
|  |  | SD | 0.036 | 0.037 |
|  |  | Lo | 0.338 | 0.544 |
|  |  | Hi | 0.456 | 0.662 |
| 2015 | 297 | Estimate | 0.486 | 0.514 |
|  |  | SD | 0.031 | 0.031 |
|  |  | Lo | 0.435 | 0.463 |
|  |  | Hi | 0.537 | 0.565 |
| 2016 | 211 | Estimate | 0.587 | 0.413 |
|  |  | SD | 0.036 | 0.036 |
|  |  | Lo | 0.527 | 0.354 |
|  |  | Hi | 0.646 | 0.473 |

Appendix G. 6. Weekly stock proportion estimates (mean) of sockeye salmon harvested in the Alaskan Subdistrict 106-41/42 (Sumner Strait) commercial drift gillnet fishery, 2016.


Appendix G. 7. Weekly stock proportion estimates (mean) of sockeye salmon harvested in the Alaskan Subdistrict 106-30 (Clarence Strait) commercial drift gillnet fishery, 2016.

| Sample Sizes |  |  |  |  | Reporting Group | mean | sd | C1 5\% | CI 95\% | PO |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| SW | Total | Genotyped | Aged (not genotyped) | Otolith Marked (not genotyped) |  |  |  |  |  |  |
| 25 | 10 | 10 | 0 | 0 | Other | 0.984 | 0.042 | 0.904 | 1.000 | 0.000 |
| 25 |  |  |  |  | Stikine/TakuMain | 0.015 | 0.040 | 0.000 | 0.088 | 0.274 |
| 25 |  |  |  |  | Tahltan | 0.001 | 0.009 | 0.000 | 0.000 | 0.878 |
| 25 |  |  |  |  | EnhancedTahltan | 0.000 | 0.006 | 0.000 | 0.000 | 0.940 |
| 25 |  |  |  |  | EnhancedTuya | 0.001 | 0.007 | 0.000 | 0.000 | 0.938 |
| 26 | 120 | 51 | 68 | 1 | Other | 0.900 | 0.038 | 0.830 | 0.954 | 0.000 |
| 26 |  |  |  |  | Stikine/TakuMain | 0.092 | 0.038 | 0.039 | 0.160 | 0.000 |
| 26 |  |  |  |  | Tahltan | 0.000 | 0.002 | 0.000 | 0.000 | 0.892 |
| 26 |  |  |  |  | EnhancedTahltan | 0.000 | 0.001 | 0.000 | 0.000 | 0.950 |
| 26 |  |  |  |  | EnhancedTuya | 0.008 | 0.008 | 0.000 | 0.025 | 0.000 |
| 27 | 289 | 119 | 169 | 1 | Other | 0.911 | 0.033 | 0.852 | 0.961 | 0.000 |
| 27 |  |  |  |  | Stikine/TakuMain | 0.085 | 0.033 | 0.035 | 0.144 | 0.000 |
| 27 |  |  |  |  | Tahltan | 0.000 | 0.001 | 0.000 | 0.000 | 0.906 |
| 27 |  |  |  |  | EnhancedTahltan | 0.003 | 0.003 | 0.000 | 0.010 | 0.000 |
| 27 |  |  |  |  | EnhancedTuya | 0.000 | 0.000 | 0.000 | 0.000 | 0.959 |
| 28 | 304 | 124 | 179 | 1 | Other | 0.906 | 0.032 | 0.853 | 0.960 | 0.000 |
| 28 |  |  |  |  | Stikine/TakuMain: | 0.075 | 0.030 | 0.024 | 0.124 | 0.009 |
| 28 |  |  |  |  | Tahltan | 0.016 | 0.011 | 0.003 | 0.037 | 0.000 |
| 28 |  |  |  |  | EnhancedTahltan | 0.000 | 0.000 | 0.000 | 0.000 | 0.955 |
| 28 |  |  |  |  | EnhancedTuya | 0.003 | 0.003 | 0.000 | 0.010 | 0.000 |
| 29 | 300 | 199 | 100 | 1 | Other | 0.969 | 0.022 | 0.923 | 0.992 | 0.000 |
| 29 |  |  |  |  | Stikine/TakuMain | 0.013 | 0.020 | 0.000 | 0.057 | 0.211 |
| 29 |  |  |  |  | Tahltan | 0.015 | 0.009 | 0.004 | 0.032 | 0.000 |
| 29 |  |  |  |  | EnhancedTahltan | 0.003 | 0.003 | 0.000 | 0.010 | 0.000 |
| 29 |  |  |  |  | EnhancedTuya | 0.000 | 0.000 | 0.000 | 0.000 | 0.956 |
| 30 | 300 | 171 | 128 | 1 | Other | 0.985 | 0.013 | 0.958 | 0.999 | 0.000 |
| 30 |  |  |  |  | Stikine/TakuMain | 0.012 | 0.013 | 0.000 | 0.038 | 0.114 |
| 30 |  |  |  |  | Tahltan | 0.000 | 0.001 | 0.000 | 0.000 | 0.907 |
| 30 |  |  |  |  | EnhancedTahltan | 0.003 | 0.003 | 0.000 | 0.010 | 0.000 |
| 30 |  |  |  |  | EnhancedTuya | 0.000 | 0.000 | 0.000 | 0.000 | 0.958 |
| 31 | 300 | 252 | 47 | 1 | Other | 0.988 | 0.010 | 0.968 | 0.999 | 0.000 |
| 31 |  |  |  |  | Stikine/TakuMain | 0.009 | 0.009 | 0.000 | 0.027 | 0.095 |
| 31 |  |  |  |  | Tahltan | 0.000 | 0.000 | 0.000 | 0.000 | 0.908 |
| 31 |  |  |  |  | EnhancedTahltan | 0.003 | 0.003 | 0.000 | 0.010 | 0.000 |
| 31 |  |  |  |  | EnhancedTuya | 0.000 | 0.000 | 0.000 | 0.000 | 0.954 |
| 32 | 300 | 274 | 26 | 0 | Other | 0.992 | 0.006 | 0.980 | 0.999 | 0.000 |
| 32 |  |  |  |  | Stikine/TakuMain | 0.008 | 0.006 | 0.001 | 0.020 | 0.003 |
| 32 |  |  |  |  | Tahltan | 0.000 | 0.000 | 0.000 | 0.000 | 0.912 |
| 32 |  |  |  |  | EnhancedTahltan | 0.000 | 0.000 | 0.000 | 0.000 | 0.955 |
| 32 |  |  |  |  | EnhancedTuya | 0.000 | 0.000 | 0.000 | 0.000 | 0.954 |
| 33 | 300 | 107 | 193 | 0 | Other | 0.998 | 0.004 | 0.991 | 1.000 | 0.000 |
| 33 |  |  |  |  | Stikine/TakuMain | 0.001 | 0.004 | 0.000 | 0.009 | 0.348 |
| 33 |  |  |  |  | Tahltan | 0.000 | 0.001 | 0.000 | 0.000 | 0.902 |
| 33 |  |  |  |  | EnhancedTahltan | 0.000 | 0.000 | 0.000 | 0.000 | 0.955 |
| 33 |  |  |  |  | EnhancedTuya | 0.000 | 0.000 | 0.000 | 0.000 | 0.954 |
| 34 | 300 | 98 | 202 | 0 | Other | 0.997 | 0.006 | 0.986 | 1.000 | 0.000 |
| 34 |  |  |  |  | Stikine/TakuMain | 0.002 | 0.006 | 0.000 | 0.014 | 0.321 |
| 34 |  |  |  |  | Tahltan | 0.000 | 0.001 | 0.000 | 0.000 | 0.903 |
| 34 |  |  |  |  | EnhancedTahltan | 0.000 | 0.000 | 0.000 | 0.000 | 0.954 |
| 34 |  |  |  |  | EnhancedTuya | 0.000 | 0.000 | 0.000 | 0.000 | 0.954 |
| 35 | 263 | 57 | 206 | 0 | Other | 0.986 | 0.018 | 0.950 | 1.000 | 0.000 |
| 35 |  |  |  |  | Stikine/TakuMain | 0.014 | 0.018 | 0.000 | 0.049 | 0.140 |
| 35 |  |  |  |  | Tahltan | 0.000 | 0.002 | 0.000 | 0.000 | 0.899 |
| 35 |  |  |  |  | EnhancedTahltan | 0.000 | 0.000 | 0.000 | 0.000 | 0.954 |
| 35 |  |  |  |  | EnhancedTuya | 0.000 | 0.000 | 0.000 | 0.000 | 0.956 |
| 36 | 91 | 26 | 65 | 0 | Other | 0.969 | 0.039 | 0.888 | 1.000 | 0.000 |
| 36 |  |  |  |  | Stikine/TakuMain | 0.031 | 0.039 | 0.000 | 0.111 | 0.144 |
| 36 |  |  |  |  | Tahltan | 0.000 | 0.003 | 0.000 | 0.000 | 0.889 |
| 36 |  |  |  |  | EnhancedTahltan | 0.000 | 0.001 | 0.000 | 0.000 | 0.948 |
| 36 |  |  |  |  | EnhancedTuya | 0.000 | 0.001 | 0.000 | 0.000 | 0.948 |

Appendix G. 8. Weekly stock proportion estimates (mean) of sockeye salmon harvested in the Alaskan District 108 commercial drift gillnet fishery, 2016.

| Sample Sizes |  |  |  |  | Reporting Group | mean | sd | CI 5\% | CI 95\% | PO |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Aged | Otolith Marked |  |  |  |  |  |  |
| SW | Total | Genotyped | (not genotyped) | (not genotyped) |  |  |  |  |  |  |
| 25 | 117 | 65 | 6 | 46 | Other | 0.091 | 0.028 | 0.050 | 0.141 | 0.000 |
| 25 |  |  |  |  | Stikine/TakuMainstem | 0.180 | 0.037 | 0.123 | 0.244 | 0.000 |
| 25 |  |  |  |  | Tahltan | 0.350 | 0.044 | 0.278 | 0.424 | 0.000 |
| 25 |  |  |  |  | EnhancedTahltan | 0.229 | 0.038 | 0.168 | 0.293 | 0.000 |
| 25 |  |  |  |  | EnhancedTuya | 0.149 | 0.032 | 0.099 | 0.206 | 0.000 |
| 26 | 528 | 162 | 170 | 196 | Other | 0.080 | 0.016 | 0.055 | 0.109 | 0.000 |
| 26 |  |  |  |  | Stikine/TakuMainstem | 0.066 | 0.014 | 0.044 | 0.091 | 0.000 |
| 26 |  |  |  |  | Tahltan | 0.481 | 0.026 | 0.439 | 0.522 | 0.000 |
| 26 |  |  |  |  | EnhancedTahltan | 0.230 | 0.019 | 0.200 | 0.261 | 0.000 |
| 26 |  |  |  |  | EnhancedTuya | 0.143 | 0.016 | 0.118 | 0.170 | 0.000 |
| 27 | 540 | 280 | 64 | 196 | Other | 0.141 | 0.017 | 0.115 | 0.169 | 0.000 |
| 27 |  |  |  |  | Stikine/TakuMainstem | 0.036 | 0.009 | 0.022 | 0.052 | 0.000 |
| 27 |  |  |  |  | Tahltan | 0.460 | 0.023 | 0.423 | 0.497 | 0.000 |
| 27 |  |  |  |  | EnhancedTahltan | 0.200 | 0.018 | 0.172 | 0.231 | 0.000 |
| 27 |  |  |  |  | EnhancedTuya | 0.163 | 0.017 | 0.136 | 0.191 | 0.000 |
| 28 | 510 | 270 | 70 | 170 | Other | 0.131 | 0.016 | 0.105 | 0.159 | 0.000 |
| 28 |  |  |  |  | Stikine/TakuMainstem | 0.108 | 0.015 | 0.084 | 0.133 | 0.000 |
| 28 |  |  |  |  | Tahltan | 0.432 | 0.023 | 0.393 | 0.470 | 0.000 |
| 28 |  |  |  |  | EnhancedTahltan | 0.212 | 0.018 | 0.183 | 0.242 | 0.000 |
| 28 |  |  |  |  | EnhancedTuya | 0.117 | 0.014 | 0.095 | 0.141 | 0.000 |
| 29 | 520 | 132 | 242 | 146 | Other | 0.150 | 0.024 | 0.113 | 0.190 | 0.000 |
| 29 |  |  |  |  | Stikine/TakuMainstem | 0.288 | 0.032 | 0.237 | 0.340 | 0.000 |
| 29 |  |  |  |  | Tahltan | 0.279 | 0.030 | 0.230 | 0.329 | 0.000 |
| 29 |  |  |  |  | EnhancedTahltan | 0.194 | 0.019 | 0.164 | 0.225 | 0.000 |
| 29 |  |  |  |  | EnhancedTuya | 0.090 | 0.012 | 0.070 | 0.111 | 0.000 |
| 30 | 370 | 93 | 202 | 75 | Other | 0.238 | 0.034 | 0.185 | 0.295 | 0.000 |
| 30 |  |  |  |  | Stikine/TakuMainstem | 0.355 | 0.041 | 0.288 | 0.422 | 0.000 |
| 30 |  |  |  |  | Tahltan | 0.237 | 0.037 | 0.178 | 0.300 | 0.000 |
| 30 |  |  |  |  | EnhancedTahltan | 0.107 | 0.016 | 0.082 | 0.135 | 0.000 |
| 30 |  |  |  |  | EnhancedTuya | 0.062 | 0.013 | 0.043 | 0.084 | 0.000 |
| 31 | 420 | 169 | 181 | 70 | Other | 0.150 | 0.024 | 0.113 | 0.192 | 0.000 |
| 31 |  |  |  |  | Stikine/TakuMainstem | 0.544 | 0.033 | 0.490 | 0.598 | 0.000 |
| 31 |  |  |  |  | Tahltan | 0.156 | 0.025 | 0.117 | 0.198 | 0.000 |
| 31 |  |  |  |  | EnhancedTahltan | 0.092 | 0.014 | 0.071 | 0.116 | 0.000 |
| 31 |  |  |  |  | EnhancedTuya | 0.057 | 0.011 | 0.040 | 0.076 | 0.000 |
| 32 | 460 | 182 | 241 | 37 | Other | 0.385 | 0.030 | 0.336 | 0.434 | 0.000 |
| 32 |  |  |  |  | Stikine/TakuMainstem | 0.463 | 0.030 | 0.414 | 0.513 | 0.000 |
| 32 |  |  |  |  | Tahltan | 0.086 | 0.020 | 0.055 | 0.121 | 0.000 |
| 32 |  |  |  |  | EnhancedTahltan | 0.046 | 0.010 | 0.031 | 0.063 | 0.000 |
| 32 |  |  |  |  | EnhancedTuya | 0.021 | 0.006 | 0.011 | 0.032 | 0.000 |
| 33 | 185 | 81 | 95 | 9 | Other | 0.532 | 0.038 | 0.465 | 0.590 | 0.000 |
| 33 |  |  |  |  | Stikine/TakuMainstem | 0.395 | 0.041 | 0.331 | 0.464 | 0.000 |
| 33 |  |  |  |  | Tahltan | 0.047 | 0.019 | 0.020 | 0.082 | 0.000 |
| 33 |  |  |  |  | EnhancedTahltan | 0.006 | 0.004 | 0.001 | 0.015 | 0.000 |
| 33 |  |  |  |  | EnhancedTuya | 0.020 | 0.014 | 0.005 | 0.049 | 0.000 |
| 34 | 168 | 64 | 96 | 8 | Other | 0.453 | 0.072 | 0.330 | 0.569 | 0.000 |
| 34 |  |  |  |  | Stikine/TakuMainstem | 0.509 | 0.074 | 0.391 | 0.633 | 0.000 |
| 34 |  |  |  |  | Tahltan | 0.024 | 0.013 | 0.007 | 0.048 | 0.000 |
| 34 |  |  |  |  | EnhancedTahltan | 0.010 | 0.005 | 0.003 | 0.018 | 0.000 |
| 34 |  |  |  |  | EnhancedTuya | 0.005 | 0.004 | 0.001 | 0.011 | 0.000 |

Appendix G. 9. Weekly stock proportion estimates (mean) of sockeye salmon harvested in the Alaskan District 111 traditional commercial drift gillnet fishery by week, 2016.

| Sample Sizes |  |  |  |  | Reporting Group | mean | sd | C15\% | C1 95\% | PO |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Aged | Otolith Marked |  |  |  |  |  |  |
|  | Total | Genotyped | (not genotyped) | (not genotyped) |  |  |  |  |  |  |
| $\frac{\text { SW }}{26}$ | 80 | 74 | 1 | 5 | Speel | 0.000 | 0.002 | 0.000 | 0.000 | 0.896 |
|  |  |  |  |  | Stikine/TakuMainstem | 0.201 | 0.046 | 0.129 | 0.281 | 0.000 |
|  |  |  |  |  | Takulakes | 0.688 | 0.051 | 0.602 | 0.770 | 0.000 |
|  |  |  |  |  | Tatsamenie | 0.000 | 0.001 | 0.000 | 0.000 | 0.948 |
|  |  |  |  |  | EnhancedSnettisham | 0.000 | 0.001 | 0.000 | 0.000 | 0.899 |
|  |  |  |  |  | EnhancedStikine | 0.037 | 0.021 | 0.010 | 0.076 | 0.000 |
|  |  |  |  |  | EnhancedTatsamenie | 0.000 | 0.001 | 0.000 | 0.000 | 0.950 |
|  |  |  |  |  | EnhancedKingSalmon | 0.025 | 0.017 | 0.005 | 0.057 | 0.000 |
|  |  |  |  |  | EnhancedLittleTrapper | 0.000 | 0.001 | 0.000 | 0.000 | 0.948 |
| 27 | 400 | 105 | 271 | 24 | Other | 0.046 | 0.021 | 0.018 | 0.084 | 0.000 |
|  |  |  |  |  | Speel | 0.000 | 0.001 | 0.000 | 0.000 | 0.900 |
|  |  |  |  |  | Stikine/TakuMainstem | 0.273 | 0.036 | 0.215 | 0.333 | 0.000 |
|  |  |  |  |  | Takulakes | 0.621 | 0.038 | 0.558 | 0.683 | 0.000 |
|  |  |  |  |  | Tatsamenie | 0.000 | 0.001 | 0.000 | 0.000 | 0.952 |
|  |  |  |  |  | EnhancedSnettisham | 0.000 | 0.000 | 0.000 | 0.000 | 0.916 |
|  |  |  |  |  | EnhancedStikine | 0.008 | 0.004 | 0.002 | 0.016 | 0.000 |
|  |  |  |  |  | EnhancedTatsamenie | 0.003 | 0.002 | 0.000 | 0.007 | 0.000 |
|  |  |  |  |  | EnhancedKingSalmon | 0.050 | 0.011 | 0.033 | 0.069 | 0.000 |
|  |  |  |  |  | EnhancedLLittleTrapper | 0.000 | 0.000 | 0.000 | 0.000 | 0.956 |
| 28 | 377 | 139 | 201 | 37 | Other | 0.028 | 0.014 | 0.010 | 0.055 | 0.000 |
|  |  |  |  |  | Speel | 0.001 | 0.004 | 0.000 | 0.008 | 0.641 |
|  |  |  |  |  | Stikine/TakuMainstem | 0.326 | 0.038 | 0.265 | 0.389 | 0.000 |
|  |  |  |  |  | TakuLakes | 0.551 | 0.038 | 0.488 | 0.612 | 0.000 |
|  |  |  |  |  | Tatsamenie | 0.000 | 0.002 | 0.000 | 0.000 | 0.888 |
|  |  |  |  |  | EnhancedSnettisham | 0.033 | 0.008 | 0.020 | 0.047 | 0.000 |
|  |  |  |  |  | EnhancedStikine | 0.000 | 0.000 | 0.000 | 0.000 | 0.845 |
|  |  |  |  |  | EnhancedTatsamenie | 0.000 | 0.000 | 0.000 | 0.000 | 0.916 |
|  |  |  |  |  | EnhancedKingSalmon | 0.060 | 0.012 | 0.041 | 0.082 | 0.000 |
|  |  |  |  |  | EnhancedLittleTrapper | 0.000 | 0.000 | 0.000 | 0.000 | 0.914 |
| 29 | 560 | 186 | 216 | 158 | Other | 0.049 | 0.014 | 0.030 | 0.075 | 0.000 |
|  |  |  |  |  | Speel | 0.010 | 0.005 | 0.003 | 0.019 | 0.000 |
|  |  |  |  |  | Stikine/TakuMainstem | 0.353 | 0.031 | 0.302 | 0.403 | 0.000 |
|  |  |  |  |  | TakuLakes | 0.292 | 0.030 | 0.243 | 0.342 | 0.000 |
|  |  |  |  |  | Tatsamenie | 0.036 | 0.012 | 0.018 | 0.058 | 0.000 |
|  |  |  |  |  | EnhancedSnettisham | 0.229 | 0.016 | 0.203 | 0.256 | 0.000 |
|  |  |  |  |  | EnhancedStikine | 0.005 | 0.003 | 0.001 | 0.011 | 0.000 |
|  |  |  |  |  | EnhancedTatsamenie | 0.010 | 0.004 | 0.004 | 0.018 | 0.000 |
|  |  |  |  |  | EnhancedKingSalmon | 0.016 | 0.005 | 0.008 | 0.025 | 0.000 |
|  |  |  |  |  | EnhancedLittle Trapper | 0.000 | 0.000 | 0.000 | 0.000 | 0.920 |
| 30 | 476 | 331 | 3 | 142 | Other | 0.100 | 0.015 | 0.076 | 0.126 | 0.000 |
|  |  |  |  |  | Speel | 0.017 | 0.008 | 0.006 | 0.031 | 0.000 |
|  |  |  |  |  | Stikine/TakuMainstem | 0.344 | 0.024 | 0.306 | 0.384 | 0.000 |
|  |  |  |  |  | Takulakes | 0.160 | 0.019 | 0.130 | 0.191 | 0.000 |
|  |  |  |  |  | Tatsamenie | 0.095 | 0.014 | 0.073 | 0.119 | 0.000 |
|  |  |  |  |  | EnhancedSnettisham | 0.254 | 0.019 | 0.223 | 0.287 | 0.000 |
|  |  |  |  |  | EnhancedStikine | 0.000 | 0.000 | 0.000 | 0.000 | 0.841 |
|  |  |  |  |  | EnhancedTatsamenie | 0.026 | 0.007 | 0.015 | 0.039 | 0.000 |
|  |  |  |  |  | EnhancedKingSalmon | 0.004 | 0.003 | 0.001 | 0.010 | 0.000 |
|  |  |  |  |  | EnhancedLittleTrapper | 0.000 | 0.000 | 0.000 | 0.000 | 0.918 |
| 31 | 600 | 172 | 77 | 351 | Other | 0.023 | 0.008 | 0.011 | 0.037 | 0.000 |
|  |  |  |  |  | Speel | 0.009 | 0.004 | 0.005 | 0.016 | 0.000 |
|  |  |  |  |  | Stikine/TakuMainstem | 0.210 | 0.021 | 0.177 | 0.244 | 0.000 |
|  |  |  |  |  | TakuLakes | 0.074 | 0.015 | 0.051 | 0.101 | 0.000 |
|  |  |  |  |  | Tatsamenie | 0.152 | 0.017 | 0.125 | 0.181 | 0.000 |
|  |  |  |  |  | EnhancedSnettisham | 0.486 | 0.019 | 0.454 | 0.517 | 0.000 |
|  |  |  |  |  | EnhancedStikine | 0.002 | 0.002 | 0.000 | 0.006 | 0.000 |
|  |  |  |  |  | EnhancedTatsamenie | 0.042 | 0.009 | 0.029 | 0.058 | 0.000 |
|  |  |  |  |  | EnhancedKingSalmon | 0.002 | 0.002 | 0.000 | 0.006 | 0.000 |
|  |  |  |  |  | EnhancedLittle Trapper | 0.000 | 0.000 | 0.000 | 0.000 | 0.920 |
| 32 | 400 | 217 | 5 | 178 | Other | 0.006 | 0.005 | 0.001 | 0.015 | 0.000 |
|  |  |  |  |  | Speel | 0.026 | 0.009 | 0.013 | 0.042 | 0.000 |
|  |  |  |  |  | Stikine/TakuMainstem | 0.282 | 0.023 | 0.244 | 0.320 | 0.000 |
|  |  |  |  |  | TakuLakes | 0.025 | 0.008 | 0.013 | 0.039 | 0.000 |
|  |  |  |  |  | Tatsamenie | 0.219 | 0.021 | 0.185 | 0.254 | 0.000 |
|  |  |  |  |  | EnhancedSnettisham | 0.369 | 0.024 | 0.330 | 0.409 | 0.000 |
|  |  |  |  |  | EnhancedStikine | 0.000 | 0.000 | 0.000 | 0.000 | 0.916 |
|  |  |  |  |  | EnhancedTatsamenie | 0.075 | 0.013 | 0.055 | 0.098 | 0.000 |
|  |  |  |  |  | EnhancedKingSalmon | 0.000 | 0.000 | 0.000 | 0.000 | 0.956 |
|  |  |  |  |  | EnhancedLittleTrapper | 0.000 | 0.000 | 0.000 | 0.000 | 0.956 |
| 33 | 270 | 69 | 1 | 200 | Other | 0.037 | 0.013 | 0.019 | 0.062 | 0.000 |
|  |  |  |  |  | Speel | 0.020 | 0.015 | 0.000 | 0.048 | 0.040 |
|  |  |  |  |  | Stikine/TakuMainstem | 0.199 | 0.034 | 0.145 | 0.258 | 0.000 |
|  |  |  |  |  | TakuLakes | 0.017 | 0.017 | 0.000 | 0.050 | 0.201 |
|  |  |  |  |  | Tatsamenie | 0.119 | 0.028 | 0.076 | 0.168 | 0.000 |
|  |  |  |  |  | EnhancedSnettisham | 0.568 | 0.036 | 0.510 | 0.628 | 0.000 |
|  |  |  |  |  | EnhancedStikine | 0.000 | 0.001 | 0.000 | 0.000 | 0.827 |
|  |  |  |  |  | EnhancedTatsamenie | 0.040 | 0.016 | 0.017 | 0.070 | 0.000 |
|  |  |  |  |  | EnhancedKingSalmon | 0.000 | 0.001 | 0.000 | 0.000 | 0.910 |
|  |  |  |  |  | EnhancedLittleTrapper | 0.000 | 0.001 | 0.000 | 0.000 | 0.908 |
| 35 | 53 | 18 | 0 | 35 | Other | 0.048 | 0.037 | 0.007 | 0.121 | 0.000 |
|  |  |  |  |  | Speel | 0.000 | 0.002 | 0.000 | 0.000 | 0.895 |
|  |  |  |  |  | Stikine/TakuMainstem | 0.153 | 0.054 | 0.072 | 0.248 | 0.000 |
|  |  |  |  |  | Takulakes | 0.001 | 0.004 | 0.000 | 0.002 | 0.791 |
|  |  |  |  |  | Tatsamenie | 0.148 | 0.048 | 0.078 | 0.234 | 0.000 |
|  |  |  |  |  | EnhancedSnettisham | 0.611 | 0.065 | 0.502 | 0.717 | 0.000 |
|  |  |  |  |  | EnhancedStikine | 0.000 | 0.002 | 0.000 | 0.000 | 0.895 |
|  |  |  |  |  | EnhancedTatsamenie | 0.037 | 0.025 | 0.007 | 0.086 | 0.000 |
|  |  |  |  |  | EnhancedKingSalmon | 0.000 | 0.001 | 0.000 | 0.000 | 0.946 |
|  |  |  |  |  | EnhancedLLittleTrapper | 0.000 | 0.001 | 0.000 | 0.000 | 0.946 |


[^0]:    ${ }^{a}$ 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.

[^1]:    ${ }^{a}$ 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
    ${ }^{\text {c }}$ aborted to due ice condtions and inclement weather

[^2]:    ${ }^{\text {a }}$ Stopped flying index area 4 on the Nakina after 2009.

[^3]:    ${ }^{\text {a }}$ Late survey date which missed the peak of spawning.

[^4]:    2012 weir count was adjusted to account for high water years when weir was disabled

[^5]:    ${ }^{\text {a }}$ 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 issues
    ${ }^{\mathrm{c}}$ The original goal of 6.0 million eggs at Tahltan Lake was reduced to 5.5 million by Canada due to domestic issues

