PACIFIC SALMON COMMISSION
JOINT TRANSBOUNDARY TECHNICAL COMMITTEE
ESTIMATES OF TRANSBOUNDARY RIVER SALMON PRODUCTION, HARVEST AND ESCAPEMENT AND A REVIEW OF JOINT
ENHANCEMENT ACTIVITIES IN 2012

REPORT TCTR (15)-4

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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) |
| GSI | Genetic Stock Identification |
| IHN | 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

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

## EXECUTIVE SUMMARY

Final postseason estimates of harvests and escapements of Pacific salmon returning to the transboundary Stikine, Taku, and Alsek rivers for 2012 are presented and compared with historical patterns. Average, unless defined otherwise, refers to the most recent 10-year average; 2002-2011. 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 2012 Stikine River sockeye salmon terminal run was estimated at 124,300 fish, of which 63,600 fish were harvested in various fisheries including test fisheries. An estimated 47,300 Stikine River fish escaped to spawn and an additional 13,600 fish migrated to the Tuya River block and were not harvested. The run was below average and the harvest was below average. The Tahltan Lake sockeye salmon escapement of 13,600 fish was below the escapement goal range ( 18,000 to 30,000 fish). The estimated U.S. commercial fishery harvest (Districts 106 and 108) and the Stikine River U.S. subsistence fishery of Stikine River sockeye salmon was 28,700 fish. The Canadian inriver commercial harvest was 26,400 fish and aboriginal fishery harvests was 4,000 fish. The inriver test fisheries harvested 4,100 sockeye salmon and there was no marine test fishery for sockeye salmon in 2012. Weekly inseason run predictions from the Stikine Management Model (SMM) ranged from 118,600 to 152,300 sockeye salmon; the final inseason model prediction was 120,600 fish, with a TAC of 43,600 fish. Weekly inseason run projections using other methods ranged from 111,600 to 166,700 sockeye salmon. The final postseason terminal run size based was 124,300 fish with a TAC of 41,500 fish. Based on the final postseason run size estimate the TAC estimate for each country was 20,800 Stikine River fish, Canada harvested $146 \%$ and the U.S. harvested $138 \%$ of their respective TACs. Broodstock collection removed 4,000 fish and otolith sampling removed 200 fish from the escapement to Tahltan Lake leaving a natural spawning escapement of 9,500 fish. The estimated spawning escapement of 33,800 mainstem Stikine River sockeye salmon was within the goal range of 20,000 to 40,000 fish for this stock group.

The 2012 Stikine River large Chinook salmon terminal run was estimated at 29,900 fish using postseason CWT and GSI analyses to separate non-Stikine fish in the District 108 terminal area fisheries, of which 7,600 fish were harvested in various fisheries. An estimated 22,300 Stikine River fish escaped to spawn, above the escapement target of 17,400 Chinook salmon, but within the escapement goal range of 14,000 to 28,000 large Chinook salmon. The run and harvest were both below average. The Little Tahltan River large Chinook salmon escapement of 700 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 Chinook salmon. The estimated U.S. harvest of Stikine River large Chinook salmon in Districts 108 gillnet, test, troll, subsistence, and sport fisheries was 2,400 fish. The estimated Canadian commercial, aboriginal, test, and sport fisheries harvest was 5,200
fish. Managers used harvest in the MR, model, and other assessment estimates to generate inseason run sizes after SW 22. The inseason run projections were consistent throughout the course of the fishery in predicting a terminal run size that was less than the preseason forecast of 40,800 fish. Weekly inseason run projections ranged from 21,000 to 33,600 Chinook salmon.

The 2012 run size of Stikine River coho salmon cannot be quantified. The U.S. marine 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 Districts 106 was 121,400 ( $55 \%$ Alaska hatchery) and District 108 was and 19,900 ( $24 \%$ Alaska hatchery) fish; both below average. The Canadian inriver coho salmon harvest of 6,200 fish was above average. The annual stream surveys conducted by Canada were aborted due to inclement weather. The cumulative CPUE observed in the coho salmon test fishery was slightly below average.

## Taku River

The final postseason estimate of the 2012 Taku River sockeye salmon terminal run is 207,600 fish; 193,600 wild fish and 14,000 hatchery fish. The U.S. harvested 46,600 wild fish and Canada harvested 27,000 wild fish and the estimated above border spawning escapement was 120,000 wild fish. The run size was above average as was the escapement which was well above the escapement goal range of 71,000 to 80,000 fish. The U.S. harvested an estimated $48 \%$ of the U.S. AC and Canada harvested an estimated $55 \%$ of the Canadian AC.

Estimates for Taku River large Chinook salmon are 19,540 spawning escapement, 22,500 above border run, and 23,870 terminal run using postseason CWT and GSI analyses to separate out non-Taku River fish in the District 111 terminal area fisheries. The harvest of large Chinook salmon in Canadian commercial, aboriginal, and recreational fisheries in the Taku River was 2,100 fish. An additional 860 large Chinook salmon were taken in a test fishery. The District 111 traditional gillnet fishery harvest of 1,290 large Chinook salmon was below average and approximately $23 \%$ of the harvest was estimated to be of Alaska hatchery origin. In the Juneau area recreational fishery around 1,500 large Chinook salmon were harvested, one-third of which were Alaska hatchery origin.

The estimated above border run of Taku River coho salmon in 2012 is 61,800 fish, which is below average. The Canadian inriver commercial and test fishery harvest of 14,100 coho salmon was above average. After Canadian harvests are subtracted from the above border run, the above border spawning escapement is estimated at 70,800 coho salmon which exceeds the minimum above border inriver run of 38,000 fish stipulated in the Treaty. The U.S. harvest of 23,700 coho salmon in the District 111 traditional fishery was below average. Alaskan hatcheries contributed an estimated 600 fish or 2\% of the District 111 harvest.


#### Abstract

Alsek River The Alsek River harvest of 18,200 sockeye salmon in the U.S. commercial fishery was above average. The Canadian inriver harvest was 500 sockeye salmon for the Klukshu River, 1,700 sockeye salmon for aboriginal harvest, and no harvest reported for Village Creek. The Klukshu River weir count of 17,700 sockeye salmon was above average and the escapement goal range of 7,500 to 15,000 fish.

The Chinook salmon run to the Alsek River appeared to be well below average. The U.S. Dry Bay harvest of 510 large Chinook salmon was average. The Canadian recreational fishery harvest of 85 fish was near average and the Aboriginal harvest was thought to have been minimal due to the poor return to the Klukshu River. The 700 Chinook salmon counted through the Klukshu River weir was below average and below the escapement goal range of 1,100 to 2,300 Chinook salmon.

Current stock assessment programs prevent an accurate comparison of the Alsek River coho salmon run with historical runs. The U.S. Dry Bay harvest of 500 coho salmon was below average. There was no recorded harvest in the Canadian recreational and aboriginal fisheries. The operation of the Klukshu weir does not provide a complete enumeration of coho salmon into this system since it is removed before the run is over.


## Enhancement

Eggs and milt were collected from the 2012 sockeye salmon escapements at Tahltan and Tatsamenie lakes. A total of 5.2 million eggs were collected at Tahltan Lake, and 2.0 million at Tatsamenie Lake. The egg-take goal of 6 million at Tahltan Lake was not achieved due to a low escapement.

Outplants of 2011 brood year sockeye salmon fry in May and June 2012 were as follows: 2.126 million fry into Tahltan Lake; 1.596 million fry into Tuya Lake; and 1.891 million fry into Tatsamenie Lake. Green-egg to planted-fry survivals were $63 \%$, $52 \%$, and $86 \%$ for the Tahltan, Tuya, and Tatsamenie, respectively. Survivals were lower for the Tahltan Lake stock due to loss of 7 of 26 incubators due to IHN ( $27 \%$ of the eggs collected).

IHN losses were the second highest in the programs history and the cumulative losses since 1989, at 9\%, are slightly higher than average for sockeye salmon culture in Alaska. The 2012 disease history samples for Tahltan were the highest in the programs history with $97 \%$ positive. The enhancement subcommittee will be continuing to assess these losses and any future ones with regard to any changes in techniques that may be necessary to safeguard against this pathogen.

The egg incubation and thermal marking program was continued at Snettisham Hatchery in 2011 and 2012. Snettisham hatchery is operated by DIPAC, a private aquaculture organization in Juneau. A cooperative agreement between ADFG and DIPAC provides for Snettisham hatchery to serve the needs of the joint TBR enhancement projects.

Adult sockeye salmon otoliths were processed inseason by the ADFG otolith lab to estimate weekly contribution of fish from U.S./Canada TBR fry stocking programs to Districts 106, 108, and 111 gillnet fisheries and to Canadian commercial fisheries in the Stikine and Taku rivers. Estimates of contributions of stocked fish to Alaskan commercial harvests were 10,500 stocked Stikine River fish to District 106 and 108, and 4,400 stocked Taku River fish to District 111. Estimates of contributions to Canadian fisheries included 11,900 stocked fish to Stikine River fisheries and 3,100 stocked fish to the Taku River fisheries.

## INTRODUCTION

This report presents preliminary estimates of the 2014 catch 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 (12)-1 Salmon Management and Enhancement Plans for the Stikine, Taku and Alsek Rivers, 2012. May 2012.

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 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 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 United States personal use fishery was established in the lower Stikine River; no harvests were reported in this fishery in 1995 through 2000, 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.


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 mark-capture 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 1996-2011. Most of the CPUE and run size data sets (CPUE versus run size) are significantly correlated. Inseason model estimates were available commencing in SW 22 (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 24. 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 40,300 large Chinook salmon was above the threshold run size limit of 28,100 fish. The threshold number is the sum of the midpoint escapement goal $(21,000)+$ the Canadian BLC $(2,300)+$ the U.S. BLC $(3,400)+$ the inriver test fishery harvest $(1,400)$. Both countries are permitted to harvest their BLC taken in the course of the targeted sockeye salmon fisheries for run sizes forecasted to be below 28,100 fish. Moreover, a test fishery continued to be implemented on the Canadian side of the border and was designed to provide inseason run estimates with a maximum harvest goal of 1,400 large Chinook salmon.

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, and troll fisheries and the inriver assessment/test, Canadian gillnet, and sport fisheries, 2012.

| SW | Start Date | Terminal Run |  | TAC |  |  | Estimated Harvest Cumulative |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Estimate | Method | Total | Weekly | Cumulative |  |
| Canada Estimates ${ }^{\text {a }}$ |  |  |  |  |  |  |  |
| 19 | 06-May | 40,800 | Preseason | 10,190 | 206 | 110 | 110 |
| 20 | 13-May | 40,800 | Preseason | 10,190 | 365 | 295 | 406 |
| 21 | 20-May | 40,800 | Preseason | 10,190 | 461 | 231 | 636 |
| 22 | 27-May | 29,300 | SCMM | 6,620 | 553 | 362 | 998 |
| 23 | 03-June | 20,950 | SCMM | 2,300 | 228 | 491 | 1,489 |
| 24 | 10-Jun | 31,100 | Average ${ }^{\text {a }}$ | 7,280 | 627 | 722 | 2,211 |
| 25 | 17-Jun | 29,249 | Average ${ }^{\text {a }}$ | 6,575 | 716 | 712 | 2,923 |
| 26 | 24-Jun | 33,629 | Average ${ }^{\text {a }}$ | 8,039 | 1,015 | 394 | 3,317 |
| 27 | 01-Jul | 25,331 | Average ${ }^{\text {a }}$ | 3,047 | 600 | 997 | 4,313 |
| 28 | 08-Jul | 26,244 | Average ${ }^{\text {a }}$ | 3,866 | 249 | 399 | 4,712 |
| 29 | 15-Jul | 27,300 | Average ${ }^{\text {a }}$ | 4,820 | 230 | 290 | 5,002 |
| 30 | 22-Jul | 27,300 | Average ${ }^{\text {a }}$ | 4,820 | 40 | 115 | 5,118 |
| 31 | 29-Jul | 27,300 | Average ${ }^{\text {a }}$ | 4,820 | 32 | 34 | 5,151 |
| 32 | 05-Aug | 27,300 | Average ${ }^{\text {a }}$ | 4,820 | 24 | 6 | 5,158 |
| 33 | 10-Aug | 27,300 | Average ${ }^{\text {a }}$ | 4,820 | 18 |  | 5,158 |
|  |  | 29,912 |  | 7,643 |  |  | 5,146 |
| U.S. Estimates ${ }^{\text {a }}$ |  |  |  |  |  |  |  |
| 19 | 06-May | 40,800 | Preseason | 5,890 | 368 | 554 | 94 |
| 20 | 13-May | 40,800 | Preseason | 5,890 | 453 | 1,007 | 433 |
| 21 | 20-May | 29,275 | Preseason | 5,890 | 674 | 1,681 | 912 |
| 22 | 27-May | 20,950 | SCMM | 478 | 74 | 210 | 1,093 |
| 23 | 03-June | 31,102 | SCMM | 0 | 0 | 0 | 1,078 |
| 24 | 10-Jun | 29,249 | Average ${ }^{\text {a }}$ | 1,620 | 279 | 1,311 | 1,838 |
| 25 | 17-Jun | 33,629 | Average ${ }^{\text {a }}$ | 475 | 47 | 432 | 2,536 |
| 26 | 24-Jun | 25,331 | Average ${ }^{\text {a }}$ | 3,391 | 163 | 3,243 | 3,373 |
| 27 | 01-Jul | 25,331 | Average ${ }^{\text {a }}$ | 83 | 2 | 81 | 3,413 |
| 28 | 08-Jul | 25,331 | Average ${ }^{\text {a }}$ | 83 | 1 | 82 | 3,830 |
| 29 | 15-Jul | 25,331 | Average ${ }^{\text {a }}$ | 83 | 1 | 83 | 3,804 |
| Postseason Final |  | 29,912 |  |  |  |  | 3,685 |

${ }^{\text {a }}$ Average of mark-recapture and Stikine Chinook Management Model
${ }^{\mathrm{b}}$ TAC includes the base level catch for U.S. and Canada plus an assessment/test fish allocation of 910 Chinook salmon for Canada
Plus an allowable catch for the first four weeks of the fishery. The assessment/test fish allocation of 910 fish was distributed over a three week period (SW 20-22).

The preseason forecast for the Stikine River large Chinook salmon terminal run was 40,800 fish (Table 1) which indicated a run size characterized as below average. Joint Canadian and U.S. inseason predictions of terminal run size ranged from 21,000 to 33,700 Chinook salmon (Table 1). Managers used the daily catch and effort data transmitted from the Kakwan Point tagging site to make weekly run projections. 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. Managers used the

SCMM for SW 22-23 and an average of the model and MR estimates were used SW 2434. All inseason projections indicated a run size that was less than the preseason expectation and well below the average run size. Based on MR data from the inriver commercial fishery tag recoveries and tag recoveries from Verrett and Little Tahltan river escapement sampling, the postseason estimated terminal run size of Stikine Chinook salmon was 29,912 large Chinook salmon, above the final preliminary inseason estimate of 25,300 large Chinook salmon (Table 1). The 2012 Little Tahltan escapement of 720 fish represents $3 \%$ of the total inriver escapement of 22,500 fish, compared to the average of $15 \%$.

## Sockeye Salmon

The preseason forecast for the Stikine River sockeye salmon terminal run was 134,000 fish (Table 2); characterized as an average run. The forecast included 35,500 natural Tahltan sockeye salmon, 16,200 stocked Tahltan fish, 32,600 stocked Tuya sockeye salmon, and 49,700 mainstem sockeye salmon. The preseason forecast was used through SW 26 for the inriver fishery. After SW 26, Canada used the SMM and other methods to generate weekly run sizes. The U.S. used the SMM beginning in SW 27 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 harvest, effort and assumed stock composition in subdistrict 106-41 (Sumner Strait), District 108, and subdistrict 106-30 (Clarence Strait).

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 ), average ( $40,000-80,000$ ), or above average (greater than 80,000 ). The SMM for 2010 was based on CPUE data from 1994 to 2006 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, but both LRCF and Lower River Test fishery CPUE were entered into the SMM model to compare and contrast the respective run sizes generated from each of the inputs. In 2011 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, only one net per licence was permitted and in 1996-1999 and 2005-2009 two nets per license were permitted. Only one net was permitted in the 2012 fishing season and the model was adjusted accordingly. An additional seven commercial licences were fished in 2012. These licences were leased from inactive commercial licence holders. The model was not adjusted to account for the additional licenses fished.

Table 2. Weekly forecasts of run size and total allowable catch for Stikine River sockeye salmon as estimated inseason by the Stikine Management Model, 2012.

| SW | Start <br> Date | Terminal Run | Method | TAC |  |  | Cumulative Harvest |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Estimate |  | Total | U.S. | Canada | U.S. | Canada |
| Model runs generated by Canada |  |  |  |  |  |  |  |  |
| 25 | 17-Jun | 134,000 | Preseason | 63,000 | 31,500 | 31,500 |  | 421 |
| 26 | 24-Jun | 134,000 | Preseason | 92,400 | 46,200 | 46,200 |  | 1,399 |
| 27 | 29-Jun | 166,700 | Model (test and com) | 73,400 | 36,700 | 36,700 |  | 8,091 |
| 28 | 8-Jul | 148,100 | Model (test com) \& inriver reg | 90,200 | 45,100 | 45,100 |  | 15,145 |
| 29 | 15-Jul | 166,000 | Model (test com) \& inriver reg | 66,200 | 33,100 | 33,100 |  | 19,735 |
| 30 | 22-Jul | 140,400 | Model (test com) \& inriver reg | 69,200 | 34,600 | 34,600 |  | 24,143 |
| 31 | 27-Jul | 143,000 | Model (test com) \& inriver reg | 72,800 | 36,400 | 36,400 |  | 28,029 |
| 32 | 5-Aug | 146,600 | Model (test com) \& inriver reg | 46,400 | 23,200 | 23,200 |  | 29,883 |
| 33 | 12-Aug | 123,000 | Run reconstruction | 34,400 | 17,200 | 17,200 |  | 30,244 |
| 34 | 19-Aug | 111,600 | Run reconstruction | 34,400 | 17,200 | 17,200 |  | 30,770 |
| 35 | 26-Aug | 111,600 | Run reconstruction | 34,400 | 17,200 | 17,200 |  | 30,887 |
| 36 | 2-Sep | 111,600 | Run reconstruction | 34,400 | 17,200 | 17,200 |  | 30,887 |
| Model runs generated by the U.S. |  |  |  |  |  |  |  |  |
| 25 | 17-Jun | 134,000 | Preseason | 68,155 | 34,078 | 34,078 | 4,403 |  |
| 26 | 24-Jun | 134,000 | Preseason | 68,155 | 34,078 | 34,078 | 7,756 |  |
| 27 | 29-Jun | 140,278 | Model | 75,337 | 37,669 | 37,669 | 16,890 |  |
| 28 | 8-Jul | 152,281 | Model | 85,458 | 42,729 | 42,729 | 21,621 |  |
| 29 | 15-Jul | 134,528 | Model | 66,955 | 33,478 | 33,478 | 20,701 |  |
| 30 | 22-Jul | 123,373 | Model | 51,597 | 25,799 | 25,799 | 20,160 |  |
| 31 | 27-Jul | 118,782 | Model | 40,656 | 20,328 | 20,328 | 23,703 |  |
| 32 | 5-Aug | 122,391 | Model | 45,577 | 72,788 | 45,187 | 22,594 |  |
| 33 | 12-Aug | 120,625 | Model | 43,569 | 21,785 | 21,785 |  |  |
| Final postseason estimate |  |  | 110,242 | 31,124 | 15,562 | 15,562 | 20,228 | 32,713 |

The weekly inputs to the Tahltan sockeye salmon regression model included the cumulative weekly CPUE of Tahltan Lake sockeye salmon (1998-2008: from SW 28 to 33 all correlations were significant and ranged from an r2 of 0.67 in SW 28 to an r2 of 0.91 SW 33). The contribution of Tuya origin sockeye salmon was based on otolith marks and presented as a ratio of the total Tahltan run size. The contribution of mainstem sockeye salmon was based on egg diameter measurements and presented as a ratio of total Tahltan run size or calculated based on a regression of cumulative CPUE against the inriver run size (1998-2008: from SW 28 to 33 all correlations were significant and ranged from an r2 of 0.31 in SW 28 to an r2 of 0.64 SW 33 ). The contribution of Tuya sockeye salmon (thermal marks) and mainstem sockeye salmon (large eggs) were expressed as a ratio of the total Tahltan Lake run. Preliminary results of thermal mark analyses were available inseason for the marine and lower river fisheries to account for Tuya production in the model and reduce the risk of over estimating the TAC of Tahltan sockeye salmon.

Canadian inseason predictions of total terminal run ranged from 123,000 to 166,700 fish and U.S. forecasts ranged from 118,800 to 188,800 fish (Table 2). Differences in U.S. and Canadian weekly predictions are due to strikingly different approaches to assessing the inseason run size, with Canada electing to forego the model estimates and use the run reconstruction and Tahltan regression assessment methods for most of the fishing season.

Table 3. Terminal run reconstruction for Stikine River sockeye salmon, 2012.

|  | All Tahltan | Tuya | Mainstem | Total Stikine | Tahltan |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | EnhacedTahltan | WildTahltan |
| Escapementa | 13,463 | 13,643 | 33,812 | 60,918 | 5,764 | 7,699 |
| ESSR Harvestb | 0 |  |  | 0 |  |  |
| Broodstock | 3,949 |  |  | 3,949 | 1,836 | 2,113 |
| Natural Spawning | 9,514 |  | 33,812 | 43,326 | 3,928 | 5,586 |
| Excessc |  | 13,643 |  | 13,643 |  |  |
| Biological Samples | 224 | 189 |  | 413 | 87 | 137 |
| Canadian Harvest |  |  |  |  |  |  |
| Aboriginal | 1,901 | 1,966 | 133 | 4,000 | 692 | 1,209 |
| Upper Commercial | 215 | 248 | 5 | 468 | 71 | 144 |
| Lower Commercial | 7,102 | 6,485 | 12,352 | 25,939 | 2,498 | 4,604 |
| Total | 9,218 | 8,698 | 12,491 | 30,407 | 3,261 | 5,958 |
| \% Harvest | 59.8\% | 51.6\% | 46.5\% | 51.4\% | 58.3\% | 60.7\% |
| Test Fishery Harvest | 434 | 566 | 796 | 1,796 | 206 | 228 |
| Tuya Test | 210 | 2,036 | 60 | 2,306 | 86 | 124 |
| All Inriver harvest | 9,863 | 11,300 | 13,347 | 34,509 | 3,552 | 6,310 |
| (harvest + samples) | 10,087 | 11,489 | 13,347 | 34,922 |  |  |
| Inriver Run | 23,326 | 25,132 | 47,158 | 95,840 | 9,316 | 14,009 |
| U.S. Harvesta |  |  |  |  |  |  |
| 106-41\&42 | 2,079 | 3,292 | 2,718 | 8,090 | 824 | 1,255 |
| 106-30 | 29 | 46 | 541 | 615 | 28 | 1 |
| $108$ | 3,760 | 4,492 | 10,443 | 18,696 | 1,372 | 2,388 |
| Subsistence | 320 | 341 | 641 | 1,302 | 113 | 207 |
| Total | $6,188$ | 8,172 | 14,343 | 28,703 | 2,337 | 3,851 |
| \% Harvest | $40.2 \%$ | 48.4\% | 53.5\% | 48.6\% | 41.7\% | 39.3\% |
| Test Fishery Harvest | 0 | 0 | 0 | 0 | 0 | 0 |
| Terminal Run | 29,514 | 33,304 | 61,501 | 124,319 | 11,653 | 17,861 |
| Escapement Goal | 24,000 | 0 | 30,000 |  |  |  |
| Terminal Excessd |  | 27,572 |  |  |  |  |
| Total TAC | 5,080 | 5,732 | 30,705 | 41,517 |  |  |
| Total Harveste | 15,841 | 17,436 | 27,629 | 60,906 |  |  |
| Canada TAC | 2,540 | 2,866 | 15,353 | 20,759 |  |  |
| Actual Harvestfg | 9,218 | 8,698 | 12,491 | 30,407 |  |  |
| \% of total TAC | 363\% | 303\% | 81\% | 146\% |  |  |
| U.S. TAC | 2,540 | 2,866 | 15,353 | 20,759 |  |  |
| Actual Harvest fg | 6,188 | 8,172 | 14,343 | 28,703 |  |  |
| \% of total TAC | 244\% | 285\% | 93\% | 138\% |  |  |
| U.S. overage/underage |  |  |  |  |  |  |
| Canada overage/underage |  |  |  |  |  |  |
| ${ }^{\text {a }}$ Escapement into terminal and spawning areas from traditional fisheries. |  |  |  |  |  |  |
| ${ }^{\mathrm{d}}$ 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. |  |  |  |  |  | ${ }^{\text {f }}$ Does not include ESSR or test fishery Harvestes. |
| ${ }^{\mathrm{g}}$ U.S. harvest estimate differs from Joint Interception Committee estimate because no estimates are made for Harvestes other than in the listed fisheries. |  |  |  |  |  |  |

## U.S. Fisheries

The 2012 gillnet harvest in District 106 was 1,853 Chinook, 45,466 sockeye, 121,418 coho, 129,646 pink, and 104,307 chum salmon. Salmon harvests were average for Chinook salmon and below average for sockeye, coho, pink, and chum salmon. Based on GSI/otolith analysis, the postseason estimate of Stikine River sockeye salmon harvested in District 106 was 8,705 fish or $19 \%$ of the harvest. Enhanced sockeye salmon from local releases (mostly Neck Lake and Burnett Inlet) contributed 2,977 sockeye salmon (6.5\%) to the District 106 harvest. An estimated 901 Chinook salmon in the District 106 harvest (49\%) were of Alaska hatchery origin. An estimated 66,219 coho salmon in the District 106 harvest were of Alaska hatchery origin, $55 \%$ of the total coho salmon harvest. The District 106 drift gillnet fishery was open for 40 days from June 18 through September 25. Total fishing time was below the average of 48.9 days. Sections 6-A, 6-B, and $6-\mathrm{C}$ were open simultaneously each week throughout the season. Weekly fishing effort in number of vessels fishing in District 106 was below average for every week except for SW 36 when the fishing effort was near average. The greatest effort of vessels fishing occurred in SW 37 (September 9-15) with 70 boats fishing. The total season effort was below average with 1930 boat days in 2012.

Based on postseason GIS/otolith analysis, the Sumner Strait fishery (Subdistricts 106-41) harvested an estimated 8,090 Stikine River sockeye salmon, 27\% of the total sockeye salmon harvest in that subdistrict. Based on postseason GSI/otolith analysis, the Clarence Strait fishery (Subdistrict 106-30) harvested an estimated 615 Stikine River sockeye salmon, $4 \%$ of the total sockeye salmon harvest in that subdistrict.

The District 108 total season gillnet harvest was 8,027 Chinook 21,997 sockeye, 20,100 coho, 16,374 pink, and 240,569 chum salmon. Chum salmon harvests were above average, and Chinook, sockeye, coho, and pink salmon harvests were below average. Based on postseason GSI/otolith analysis, the District 108 fishery harvested an estimated 18,693 Stikine River sockeye salmon, $85 \%$ of the District 108 sockeye salmon harvest. An estimated 31\% ( 4,808 fish) of the District 108 coho salmon harvest was of Alaskan hatchery origin. The District 108 fishery started on May 7 and included three weeks of directed Chinook salmon fishing before a sockeye salmon opening occurred in SW 25 (June 18). District 108 closed concurrently with District 106 on September 27. The 40 days the district was open is near average, excluding periods in years when a directed Chinook salmon fishery occurred. The weekly fishing effort in number of vessels fishing in District 108 was variable with about half the weekly fishing periods receiving higher than average effort and was mainly concentrated in Chichagof Pass and Zimovia Strait targeting hatchery produced chum salmon.

In 2012, U.S. Federal subsistence Chinook, sockeye, and coho salmon fisheries were conducted on the Stikine River. The subsistence fisheries are managed by the United States Forest Service. A permit issued by the USFS to federally qualified users is required for subsistence fishing in the Stikine River and takes place from marine waters to the U.S./Canadian border. Subsistence fishing in "clearwater" tributaries or side channels and at stock assessment sites is prohibited. The annual guideline harvest levels
were 125 Chinook, 600 sockeye, and 400 coho salmon in 2012. The fishery was open from May 15 to June 20 for Chinook salmon, June 21 to July 31 for sockeye salmon, and August 1 to October 1 for coho salmon. The allowable gear for the fishery includes: dipnets, spears, gaffs, rod and reel, beach seine, and gillnets not exceeding 15 fathoms in length with mesh size no larger than $51 / 2$ inches, except during the Chinook salmon fishery when nets with mesh up to 8 inches are allowed. In 2012, a total of 129 permits were issued and the estimated harvests included 46 large Chinook, 1,302 sockeye, and 60 coho salmon. Inseason management actions in response to low inseason forecasts of Stikine Chinook salmon included increased reporting intervals and a request to tend nets more closely.

The final postseason estimate of the terminal run size was 29,912 large Chinook and was based upon MR information. The final U.S. harvest of large Stikine Chinook salmon through SW 29, including the Federal Stikine subsistence fishery, was 2,370 fish. Based upon that final postseason estimate of the run size, the U.S. AC, including BLC, was 5,100 large Stikine Chinook salmon. The gillnet fleet harvested the bulk of the large Stikine Chinook salmon in District 108 with an estimated 1,209 fish through SW 29. The sport fishery harvested an estimated 608 large Stikine Chinook salmon during this time period. The troll fishery opened for a total of 36 days throughout most of the open fishing areas in District 108 from SW 19 through 29. The troll fishery accounted for 506 Stikine Chinook salmon in District 108.

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 each with a resident bag limit of three Chinook salmon, 28 inches or greater in length, and a possession limit of six king salmon, a nonresident bag limit of two king salmon 28 inches or greater in length, and a possession limit of two king salmon with an annual limit of six king salmon. On June 4, the liberalized sport fish regulations were rescinded due to declining run size estimates that resulted in no available U.S. AC. On June 23, sport fish regulations were again liberalized for the remainder of the season due to inseason estimates that were large enough to produce a U.S. AC. The 2012 estimated sport fish harvest of 608 Stikine Chinook salmon was below the average harvest of 1,917 fish since directed fisheries were reinstated in 2005.

The preseason forecast produced a U.S. AC large enough to allow for a limited directed commercial gillnet and troll fisheries to begin the first Monday in May. The U.S. TAC based on the forecast was 5,900 large Stikine Chinook salmon. The Stikine River flats remained closed to gillnet throughout the directed Chinook salmon fishery. Small area closures occurred to reduce conflicts between commercial and sport fishermen and for steelhead conservation. Another steelhead conservation tool that was implemented in 2006 and continued in 2012 was a minimum mesh size of 7 inches for gillnetters throughout the directed Stikine Chinook salmon fishery.

The District 108 directed Stikine Chinook gillnet fishery began at 8:00 a.m. on Monday, May 7, (SW 19) for a 24 -hour period. There were 11 gillnetters that made landings in District 108 during the initial opener, with several more boats fishing with no harvest.

The majority of boats fished in Section 8-B, and this trend would remain throughout the directed Stikine Chinook salmon gillnet fishery. The average gillnet harvest rate in the initial opening was lower than years with a similar forecast. The first inseason run estimate was not released until SW 21; therefore the preseason forecast was used for the first three weeks of the directed Stikine Chinook salmon fishery. The District 108 gillnet harvest during SW 19 was 29 large Chinook salmon. The U.S. weekly AC guideline, based on historical run timing and the preseason forecast, was 368 Stikine Chinook salmon. After factoring in the troll and sport fish harvests, and deducting the hatchery component, the total U.S. harvest of 181 Stikine Chinook salmon was well below the weekly guideline.

During SW 20 (May 13-May 19) and SW 21 (May 20-May 26) District 108 was opened with the same area and time as the previous week. Gillnet effort increased steadily as the season progressed with 23 boats making landings in SW 20 and 39 boats in SW 21. The overall effort remained below the 2005-2008 average (years with directed gillnet fisheries). The cumulative harvest of large Stikine Chinook salmon by the U.S. fisheries was estimated to be 900 fish, well below the allowable cumulative harvest guideline of 1,681. The average harvest rate in SW 21 showed a minimal increase from the previous week, but continued to be well below expectations. Inseason forecasts starting in SW 21 produced U.S. ACs too low to prosecute further directed commercial fisheries. As a result, the District 108 gillnet fishery was closed until the sockeye salmon season began in SW 25. The directed Stikine Chinook salmon gillnet fishery was open for a total of 3 days and an estimated 363 large Stikine Chinook salmon were harvested.

The District 106 and 108 sockeye salmon gillnet season began at 12:00 noon on Monday, June 18 (SW 25), for an initial two-day period. By regulation, Monday openings occurred during the first two sockeye salmon management periods. The first sockeye salmon opening is normally two days based on the preseason forecasts. Extending fishing time is based primarily on the preseason forecast and on fishery performance estimated by management biologists monitoring the fishery on the grounds. Sockeye salmon harvests showed mixed results and the fishery closed after two days. For this initial opening, 10 boats fished in Clarence Strait (106-30), 39 boats fished in Sumner Strait (106-41), and 53 boats fished in District 108. The preseason forecast for a total Stikine River TAC of 62,629 sockeye salmon (Table 2). This run size would allow the U.S. fisheries to harvest a total of 31,300 Stikine River sockeye salmon which includes 13,503 Tahltan fish. The preseason forecast was used for SW 25-27. Inriver run estimates were produced weekly starting in SW 27 and used throughout the remainder of the season.

During SW 26 (June 24-June 30) there were 41 boats fishing in Sumner Strait, 9 boats fishing in Clarence Strait, and 48 boats fishing in District 108. Due to poor harvest rates in District 6 and low Tahltan sockeye salmon return expectations, no extra time occurred and fishing time remained at 2 days. Otolith readings for subdistrict 106-41 indicated that $7 \%$ of the harvest was comprised of thermally marked Tahltan fish and $33 \%$ were Tuya fish. In District 108, 13\% were thermally marked Tahltan fish and $43 \%$ were Tuya fish.

During SW 27 (July 1-July 7) there were 24 boats fishing in Sumner Strait, 23 boats fishing in Clarence Strait, and 37 boats fishing in District 108. Both districts were again opened for an initial two days. Inseason fishery monitoring indicated that sockeye salmon abundance in Districts 106 and 108 were above average. With chum salmon returning to Anita Bay showing early, a good portion of the effort in District 108 shifted to targeting Anita Bay chum salmon. With low effort in District 108 on sockeye salmon and average harvest rates in both districts, extra time was granted; however, extra fishing time was limite4d to a 24 -hour extension due to a below average preseason forecast. The first inseason terminal run estimate produced later in the week resulted in a higher estimated run size with an increase in the Tahltan and mainstem components. The otolith readings for subdistrict 106-41 for SW 27 indicated that $2 \%$ of the harvest was comprised of thermally marked Tahltan fish and $18 \%$ were Tuya fish. The District 108 otolith reading indicated $7 \%$ thermally marked Tahltan fish and $34 \%$ Tuya fish.

During SW 28 (July 8-July 14) Districts 106 and 108 were opened for an initial two days. There were 18 boats fishing in Clarence Strait, 16 boats in Sumner Strait, and a total of 53 boats fishing in District 108 for the week. Surveys on the fishing grounds indicated that sockeye salmon harvest rates remained average in both districts. With average sockeye salmon harvest rates and low effort in both districts targeting sockeye salmon, a 24 -hour extension was announced. Otolith readings for SW 28 indicated that marked Tahltan fish contributed $1 \%$ of the 106-41 harvest and $9 \%$ of the District 108 harvest. Marked Tuya fish contributed to $7 \%$ of the $106-41$ harvest and $11 \%$ of the District 108 harvest. The second inseason Stikine run size estimate decreased from the prior week to 134,528 fish. The U.S. AC was 33,478 fish. The cumulative U.S. harvest of Stikine sockeye salmon through this SW was 21,621, including 7,516 Tahltan fish.

During SW 29 (July 15-July 21) 17 boats fished in Clarence Strait, 12 boats fished in Sumner Strait, and 61 boats fished in District 108. Harvest rates improved for both districts with more than twice the average CPUE in Sumner Strait. Good harvest rates and low efforts prompted a 24 -hr extension for both districts for a total of 3 days for the week. The estimate produced near the end of the week resulted in another decrease in the Stikine sockeye salmon run size. The estimate of Tahltan returning fish decreased from the prior week, whereas the mainstem estimate increased. The U.S. AC of Stikine sockeye salmon was estimated to be 25,798 fish. The estimated U.S. cumulative harvest through this week was 20,701 fish. SW 29 otolith readings indicated that marked Tahltan fish contributed $0.7 \%$ of the 106-41 harvest and $0.6 \%$ of the District 108 harvest. Marked Tuya fish contributed to $2 \%$ of the 106-41 catch and $4 \%$ of the District 108 harvest.

Effort increased by 16 boats during SW 30 (July 22-July 28) with 20 boats in Clarence Strait, 23 boats in Sumner Strait, and 63 boats in District 108. The majority of boats fishing in District 108 continued to target enhanced chum salmon run to Anita Bay. Both districts were open for an initial two days with an additional 24-hour extension. The additional time was based on low expected sockeye salmon harvest due to low effort targeting sockeye salmon and continued above average sockeye salmon harvest rates for both districts. This week's SMM again produced a lower Stikine sockeye salmon run size estimate with an estimated terminal run size of 118,782 fish. The resultant U.S. AC was

20,328 fish. The estimated mainstem run size continued to increase as the Tahltan estimated run size continued to decrease. The U.S. harvest of Stikine sockeye salmon through SW 30 was 23,327 fish with a harvest of 3,745 Tahltan fish. Otolith readings for SW 30 indicated that marked Tahltan fish contributed $0 \%$ of the $106-41$ harvest and $0 \%$ of the District 108 harvest.

Overall, effort did not change during SW 31 (July 29-August 4) with 23 boats fishing in Clarence Strait, 21 boats in Sumner Strait, and 65 boats in District 108. Both districts were open for an initial three days. Sockeye salmon harvest rates continued to be above average in both districts for boats targeting sockeye salmon. Estimates produced by the SMM this week and during the next few weeks continued to indicate a below average Stikine River sockeye salmon terminal run size.

During SW 32 through 35 (August 5-August 11) both Districts 106 and 108 were managed for pink salmon. 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. In Districts 106 and 108, three day openings occurred in SW 32 and 33 based on above average pink salmon harvest rates in SW 31 and good parent year escapements. Harvest rates were below average for SW 33 through 35 for both districts and fishing time was restricted to two day openers in SW 34 and 35. During the 2012 season, the fishing effort was generally near average effort in both districts throughout the pink salmon management period.

Beginning in SW 36 (September 2-September 8) the management emphasis changed from pink salmon to wild coho salmon. Coho salmon harvest rates were generally above average during the pink salmon management period. Prior to the switch to coho salmon management, the District 106 fishery harvested 71,804 coho salmon, $59 \%$ of the total District 106 coho salmon harvest. The Neck Lake/Burnett Inlet enhanced summer coho salmon runs comprised the majority of this early coho salmon harvest with an estimated contribution of 27,800 fish in the District 106 fishery prior to SW 36. The average weekly Alaska hatchery coho salmon harvest rates in the District 106 fishery were above average for most of 2012. The coho salmon harvests were below average in both Districts 106 and 108. The weekly wild coho salmon component of the harvest remained below average with a peak during SW 35, one week earlier than average. During the coho salmon management period both districts had three-day openings except for the last week of the fishery which was a two day opener. The 2012 gillnet season in both districts ended at noon on Tuesday, September 25.

## Canadian Fisheries

Harvest from the combined Canadian commercial and Aboriginal gillnet fisheries, and sport fishery in the Stikine River in 2012 included: 4,642 large Chinook (includes 5 release mortalities), 1,240 nonlarge Chinook (includes 27 release mortalities), 30,407 sockeye, 6,188 coho, 0 pink, and 363 chum salmon. In addition 411 pink and 625 chum salmon were released; all of the 365 steelhead caught were released. A test 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 yielded a catch of 2,306 sockeye, 44 large Chinook, and 5 nonlarge Chinook salmon. A total of 467 large Chinook and 49 nonlarge Chinook salmon were harvested by the commercial fleet under the auspices of a test fishery. The PST test fishery quota was 1,400 large Chinook salmon; however, because the test fishery was only conducted during SW 23 (03-09 June; $16 \%$ of the run), the guideline test fish harvest was adjusted to reflect this proportion resulting in a guideline level of only 228 large Chinook salmon.

The harvest of large Chinook salmon was below average and the fourth lowest harvest recorded since the targeted Chinook salmon fishery started in 2005. Harvests of nonlarge Chinook salmon were close to average. The sockeye salmon harvest was below average. The final estimate of the total contribution of sockeye salmon from the Canada/U.S. frystocking programme to the combined Canadian aboriginal and commercial fisheries was 11,958 fish, $39 \%$ of the harvest. The harvest of 6,188 coho salmon was above average.

A sockeye salmon test fishery was conducted for stock assessment purposes in the lower Stikine River from 20 June to 01 September, 2012. The test fishery was located immediately upstream from the Canada/U.S. border. Test fishery harvests totaled 62 large Chinook, 39 nonlarge Chinook, 1,777 sockeye, 96 coho, 38 pink, 131 chum salmon, and 23 steelhead trout (all steelhead trout, chum and pink salmon were released). The objectives of the sockeye salmon test fishery were similar to those in previous years; to provide inseason harvest, stock identification, 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.

A coho salmon test fishery was conducted in the lower Stikine River from 05 September to 13 October, 2012. The test fishery was located immediately upstream from the Canada/U.S. border. Test fishery harvests totaled 340 coho, 4 chum salmon, and 29 steelhead trout that were released. The objective of this test fishery was to provide an index catch expressed in cumulative weekly CPUE to complement and compare with the existing test fishery historical data set (1986-2011) which provides an interannual measure of the relative run strength of Stikine coho salmon.

## Lower Stikine River Commercial Fishery

Canadian lower Stikine River commercial fishery in the harvested 4,054 large Chinook, 1,043 nonlarge Chinook, 25,939 sockeye, 6,188 coho, 0 pink, and 363 chum salmon. A total of 365 steelhead trout, 411 pink and 625 chum salmon were released. For the

Chinook salmon harvest 4,054 fish were harvested in a directed Chinook salmon fishery (SW 19-22) and incidentally in a directed sockeye salmon fishery (SW 24-32). An additional harvest of 467 large Chinook salmon was accounted against the assessment/test fish allocation of 1,400 large Chinook salmon. The harvest of Chinook salmon excludes an estimated released fish mortality of 6 large and 27 nonlarge fish. The harvests of sockeye, large and nonlarge Chinook salmon were below average and the harvest of coho salmon was above average. The commercial fleet targeted large Chinook salmon from SW 19-21; based on a preseason run size of 40,800 large Chinook salmon. Due to a major drop in the inseason run size estimate in SW22 projection, the SW 23 commercial fishery was closed. In SW 23, an assessment/test fishery was prosecuted in order to collect tagged to untagged fish ratio metrics used in generating inseason run size estimates. Post SW 23, the run size prediction warranted a return to a targeted Chinook salmon fishery which was prosecuted through to SW 25.

The fleet targeted Chinook salmon for a total of 11 days; below the average of 18 days. Sockeye salmon were targeted for a total of 19 days; below the average of 31 days. The coho salmon fishery was opened for a total of 8 days; below the average of 9 days.

Based on final estimates (Table 3) the stock composition of the lower river commercial fishery sockeye salmon harvest was 2,498 stocked Tahltan fish which accounted for $11 \%$ of the sockeye salmon harvest; 4,914 wild Tahltan fish accounting for $18 \%$ of the harvest; 11,840 mainstem fish accounting for $48 \%$ of the harvest; and 7,340 stocked Tuya fish which accounted for $25 \%$ of the harvest.

Precise stock compositions of the commercial Chinook salmon harvest are not available. However, assuming that the Chinook salmon harvest reflects the contribution of the Little Tahltan and 'other' stocks to the total inriver escapement, the commercial harvest of Chinook salmon of Little Tahltan origin was 121 large Chinook salmon (3\% of escapement) and the harvest of large Chinook salmon originating from 'other' stocks was 4,521 fish.

Weekly Chinook and sockeye salmon guideline harvests based on SCMM, SMM, MR and other 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. For purposes of managing the lower river harvest 800 large Chinook salmon were allocated to the upper Stikine fisheries after SW 25 (17-23 June). The large Chinook salmon allocation consisted of 100 sport, 20 upper commercial, and 680 Aboriginal fisheries. A total of 8,000 sockeye salmon were allocated to the upper Stikine commercial and Aboriginal fishery. The remaining balance of the Chinook and sockeye salmon TAC was allocated to the lower Stikine 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 25 (12-18 June) was focused primarily on the harvest of large Chinook salmon (the commercial fishery was closed in SW 23, so test fishery was deployed to collect tag ratio information). From SW 26 through SW 29 (24 June-21 July) 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 (19-25 August). As in 2010 and 2011, the management of mainstem sockeye salmon was advanced from SW 31 (29 July-04 August) to SW 30 (22-28 July) in 2012 in an attempt to avert the downward trending escapement of this stock. The coho salmon management regime commenced on SW 35 (26 August-01 September).

The preseason estimate of 40,800 large Chinook salmon was above the treaty agreed to threshold run size of 28,100 fish that triggers a directed fishery. Targeted commercial fisheries, therefore, could be prosecuted by both Canada and the U.S. The TTC agreed to Canada conducting a test fishery using the Canadian commercial fleet should the inriver run size estimate be under the threshold limit of 24,500 large Chinook salmon. The fleet, however, would be under a tightly controlled fishing regime. This was done in order to collect inseason CPUE and tag recovery data required to generate weekly run size estimates. The test fishery catch was capped at 1,400 large Chinook salmon.

The Canadian guideline harvests in a directed Chinook salmon fishery were based on an overall AC of 6,810 . This AC was apportioned through SW 19 to SW 25 (06 May-23 June). The weekly guideline harvests were derived from historical run timing data from the 2005-2009 inriver commercial fisheries and the 2000-2003, 2010-2011 inriver test fisheries. The same metrics were used to generate weekly guideline harvests under an assessment/test fishery scenario which occurred only in SW 23 (03-09 June). During the early component of the directed sockeye salmon fishery when incidental Chinook salmon harvests occurred weekly guidelines of the Chinook salmon BLC (defined in the PST) were generated using the same run timing as articulated above.

The directed Chinook salmon fishery regime commenced at 1200 hours 06 May (SW 19). The Chinook salmon assessment/test fishery regime commenced at 0800 hours 04 June (SW 23). The sockeye salmon fishery regime that incidentally harvested Chinook salmon allocated under the base level allocation commenced at 1200 hours 24 June (SW 26). Fishers were limited to one net with a maximum length of 135 m ( 445 feet). The maximum mesh size was 203 mm ( 8 inches) when targeting Chinook or coho salmon, and 140 mm ( 5.5 inches) when targeting sockeye salmon. An additional seven licences were fished again in 2012 as occurred in the 2011 fishing season. These licences were leased by active commercial fishers from licence holders that have not participated in the fishery for over a decade. The fishing zone extended from the Canada/U.S. boundary to a point near the confluence of the Porcupine and Stikine rivers.

In a response to five consecutive years of under escapement of Little Tahltan Chinook salmon the TAC allocated to the Canadian fishery was reduced $30 \%$ until an inseason run size was generated.

Note: some of the catch figures listed in the following narrative may not match the final catch records shown in the appendix tables. This is due to slight changes in the catches as a result of a postseason check of the catch slips and assessment of the nonlarge Chinook versus large Chinook ratio.

The first directed Chinook salmon fishery opening was posted for two days commencing at 1200 hours 06 May, SW 19. The guideline harvest was 206 large Chinook salmon. Fishing conditions were very good; however, the catch per boat day (CPUE) of only 7 fish after 24 hours of fishing was only average. The fishery was held at two days and yielded a total harvest of only 110 large and 5 nonlarge Chinook salmon. The weekly CPUE adjusted (specifically, expanded by $30 \%$ to reflect what the CPUE would have been with the standard two nets) was 5.16 fish; the recent 7 -year average was 7.0 large Chinook salmon. The cumulative catch per hour (CPUE) at the Kakwan tagging site was $57 \%$ of average and the harvest to date taken by the District 108 recreational fishery was $54 \%$ of average. The harvest in District 108 directed drift gillnet Chinook salmon fishery followed suit with a catch per boat day (CPUE) of only 2.8 fish; average was 4.9 large Chinook salmon or $49 \%$ of average.

The fishery was posted for and initial two day opening in SW 20 (13-19 May) with a weekly guideline harvest of 365 large Chinook salmon. The CPUE after 24 hours was slightly above average; day one harvest was 144 large Chinook salmon. The projected total harvest of 300 Chinook prompted a decision to hold the fishery to two days this week. The final harvest was 292 large and 11 nonlarge Chinook salmon taken under very good fishing conditions. The CPUE of 13 large Chinook salmon was slightly above the recent 7 -year average of 12 large Chinook salmon. The CPUE at the Kakwan tagging site, however, was only $57 \%$ of average and the harvest to date taken by the District 108 recreational fishery was 23 \% of average. The CPUE in District 108 directed drift gillnet Chinook salmon fishery was only 5.5 fish; the average was 6.5 fish or $85 \%$ of average. This week's low catch rates at Kakwan and in District 108's sport and drift gillnet fishery showed early signs of a relatively weak return of Stikine bound Chinook salmon; anticipated to be below the preseason forecast of 40,800 fish.

The fishery was posted for an initial one day period in SW 21 (20-26 May) with a weekly guideline harvest of 461 large Chinook salmon. The estimated harvest of 130 large Chinook salmon after 8 hours and a projected harvest of 400 fish in 24 hours resulted in a decision to hold the fishery at one day. The total weekly harvest was 245 large and 17 nonlarge Chinook salmon. The CPUE of 22 large Chinook salmon was above the recent 7 -year average of 16 large Chinook; taken under relatively good fishing conditions. The cumulative CPUE at the Kakwan tagging site however was only 58\% of average and the harvest to date taken by the District 108 recreational fishery was $62 \%$ of average. The District 108 drift gillnet CPUE was also substandard reporting a CPUE of only 4.9; the average was 11.5 fish or $43 \%$ of average. The first inseason run size estimate of 29,300 large Chinook was generated on Thursday of this week. The Stikine Chinook management model (SCMM) was the sole tool used to generate a run size versus the use of a MR estimate. This was due to the fact that only nine tags were recovered to date which was of little utility in generating a run size estimate of adequate precision. As suspected earlier in the fishery, the preseason was size estimate of 40,800 fish was probably optimistic.

As a result of the new inseason run size estimate of 29,300 fish, the fishery was only posted for an initial one day period in SW 22 (27 May-02 June) with a weekly guideline
harvest of 552 large Chinook salmon. The estimated harvest of 76 large Chinook salmon after 8 hours and a projected harvest of 230 fish in 24 hours resulted in a decision to extend the fishery for 24 hours. This week's two day fishery yield a harvest of 331 large and 15 nonlarge Chinook salmon. The CPUE of 14.5 large Chinook salmon was close to recent 7 -year average of 14.6 large Chinook salmon, taken under very good fishing conditions. The cumulative CPUE at the Kakwan tagging site was only 46\% of average, while the catch to date taken by the District 108 recreational fishery was $45 \%$ of average. The District 108 Chinook drift gillnet was closed this week due to projected low returns and minimal AC. An inseason run size estimate of 20,950 large Chinook salmon was generated on Thursday of this week. As in SW 21, the Stikine Chinook management model (SCMM) was the sole tool used to generate a run size versus the use of a MR estimate. This was again due to the low number of tags recovered to date. The new run size of only 20,950 large Chinook salmon was well below the trigger of 24,500 fish above which a commercial fishery may be prosecuted under the terms of the PST. As a result, the directed commercial fishery was closed. A test/assessment fishery, utilizing the commercial fleet, was announced for the following week, SW 23 (03-09 June).

In SW 23 (29 May-04 June) the assessment/test fishery commenced with the objective of providing a measure (tag recoveries and CPUE) of weekly and total run size estimates required to govern fisheries management decisions. The weekly guideline harvest was based on Chinook salmon run timing as discussed above. The fishery was posted for an initial 12 hour period starting at 0800 hours 03 June (Monday) with a weekly guideline harvest of 228 large Chinook salmon. The unexpectedly high harvest of nearly 200 fish after 6 hours of fishing resulted in holding the fishery to 12 hours. The final harvest was 495 large and 21 nonlarge Chinook salmon which were harvested under good fishing conditions. The CPUE of 44 large Chinook salmon was well above the recent 7 -year average of 21 large Chinook salmon. The CPUE at the Kakwan tagging site did not see a similar improvement; this week's CPUE was only $65 \%$ of average. The harvest to date taken by the District 108 recreational fishery was only $51 \%$ of average. A new run size estimated of 31,100 large Chinook salmon generated by combining a MR and SCMM estimate showed a major improvement in run strength which resulted in triggering a directed commercial fishery on the merit of the new run size exceeding the threshold size of 24,500 large Chinook salmon. As such, a directed commercial fishery was announced for the following week, SW 24 (10-16 June).

As a result of the new inseason run size estimate of 31,100 large Chinook salmon the commercial fishery was reinstated for an initial one day period in SW 24 (10-16 June), with a weekly guideline harvest of 602 large Chinook salmon. The estimated harvest of 50 large Chinook salmon after 6 hours and a projected harvest of 200 fish in 24 hours resulted in a decision to extend the fishery for one day. A similar harvest estimate of 200 fish after 6 hours of fishing in day two prompted a second one day extension. The day three harvest of 339 large Chinook salmon was well above expectations which resulted in a slight overage above our weekly goal of 602 large fish. In total, this week's three day fishery yielded a harvest of 764 large and 36 nonlarge Chinook salmon. The CPUE of 23 large Chinook salmon was well below recent 7-year average of 41 large Chinook salmon; taken under relatively poor fishing conditions. The cumulative CPUE at the Kakwan
tagging site was $45 \%$ of average and the harvest to date taken by the District 108 recreational fishery was $87 \%$ of average. The run size estimate generated late this week based on averaging the SCMM and MR indicated a slight drop in run size with an estimate of 29,300 large Chinook salmon. Further anecdotal evidence of a weak return was the reported with a harvest of only 52 large Chinook salmon taken in the upper Stikine Aboriginal fishery, when on average over 125 large Chinook salmon are harvested by this week.

In SW 25 (17-23 June) the commercial fishery was opened for an initial one day period with a weekly adjusted guideline harvest of 563 large Chinook salmon. The actual guideline harvest estimate of 804 fish based on the latest run size estimate was reduced by $30 \%$ due to an uncertainty in MR component of the estimate. It was surmised that the MR estimate was unreasonably high. The precision around the estimate was weak based on a small tag recovery of only 23 tags. The estimated harvest of 200 large Chinook salmon after 8 hours and a projected harvest of 600 fish in 24 hours resulted in a decision to hold the fishery to one day. In total, this week's one day fishery yielded a harvest of 670 large, 47 nonlarge Chinook and 341 sockeye salmon. The CPUE of 60 large Chinook salmon was well above the recent 7 -year average of 39 large Chinook salmon; taken under relatively favourable fishing conditions. The sockeye salmon harvest was an alltime seasonal high and it should be noted that this harvest was taken using exclusively Chinook salmon gear ( $204 \mathrm{~mm} / 8.0$ inch mesh). Based on this unprecedented sockeye salmon harvest there was an early anticipation of a strong return of sockeye salmon; the preseason estimated run size was only 134,000 fish which well below average. The cumulative CPUE at the Kakwan tagging site was $40 \%$ of average and the harvest to date taken by the District 108 recreational fishery was $93 \%$ of average. This week's new run size estimate of 33,600 large Chinook salmon based on averaging the SCMM and MR estimate indicated a stronger run (a measure of uncertainty clouded the MR estimate). A cumulative total of only 127 large Chinook salmon was taken in the upper Stikine Aboriginal fishery this week when on average over 208 large Chinook salmon are harvested by this date. The Little Tahltan Chinook salmon weir was operational on the 22 June after a five day installation delay due to high water conditions. No fish were enumerated.

In SW 26 (24-30 June) the fishery management focus switched from Chinook salmon to sockeye salmon; however, the relatively weak Chinook salmon return resulted in managing the fishery based on both sockeye and Chinook salmon escapement considerations. The sockeye salmon management regime was centred on the Tahltan stock group and remained through SW 29 (15-21 July). The guideline harvest for Chinook salmon was based on the BLC of 1,500 large fish, partitioned by historical run timing through the fishery from SW 26 (19-25 June) through SW 30 (17-23 July) and AC based on run sizes exceeding 24,500 large Chinook salmon. The total Canadian BLC was 2,300 fish; 1,500 large Chinook salmon were allocated to lower river commercial fishery and the balance allocated to the Aboriginal, upper commercial, and recreational fisheries. In order to minimize the incidental harvest of Chinook salmon, a mesh size restriction of 140 mm ( 5.5 inches) was implemented. Fishers were permitted one net only
and the commercial fishing grounds remained the same as that defined in the directed Chinook salmon fishery.

The first targeted sockeye salmon fishery for the 2012 season was posted for an initial two day period commencing Sunday noon, SW 26 (24-30 June). The guideline large Chinook salmon harvest was 836 fish and the sockeye salmon guideline harvest was 2,800 fish; including 1,400 Tahltan Lake sockeye salmon. The total sockeye salmon TAC was based on the preseason run size expectation of 134,000 fish and a total TAC of 31,500; including 13,600 Tahltan, 8,500 Tuya Lake, and 9,400 mainstem sockeye salmon. A harvest estimate of only 200 Tahltan Lake sockeye salmon and 150 large Chinook salmon after 24 hours of fishing prompted a one day extension. The fleet fished under superb fishing conditions due to unseasonably low water flows. The three day fishery yielded a harvest of 389 large Chinook, 84 nonlarge Chinook, and 978 sockeye salmon which was well below the guideline harvests for both species. The total weekly sockeye salmon harvest was comprised of $18 \%$ Tahltan enhanced fish, $37 \%$ Tahltan wild fish, $39 \%$, Tuya, and $6 \%$ mainstem sockeye salmon. The Tahltan sockeye salmon CPUE was only 11 fish ; the average was 49 fish. U.S. District 108 and 106 sockeye salmon harvests were reported as below average. The Chinook salmon harvests in upper Stikine fishery continue to be below average. Zero Chinook salmon transited the Little Tahltan weir; on average a total of 47 large Chinook salmon would have been counted by this date. The Kakwan CPUE was $40 \%$ of average.

The fishery was posted for an initial two day period in SW 27 (01-07 July) with a Chinook salmon guideline harvest of 440 large fish and a sockeye salmon guideline harvest of 7,500 fish; including 3,700 Tahltan Lake sockeye salmon. The sockeye salmon TAC was based on a run size estimate of 166,700 fish which was generated by averaging the Stikine Management Model (SMM), the run size based in an inriver CPUE linear regression model using commercial harvests, and test fish CPUE model. Harvests of 1,600 Tahltan Lake sockeye and 400 large Chinook salmon after one day of fishing indicated that there was little room to extend another day. The fishery was thus held on two days. The fishing conditions were very good again this week. At this point in the fishery it was decided that no adjustment would be made to the CPUE generated by the 19 licences fishing in attempts to make it comparable to past years when there were 12 licences fishing. The rationale was that the extreme and unusual low flow and therefore increased CPUE would be offset by using the total complement of nets, $n=19$ instead of using some metric to factor down the effort to make it comparable to past years. The two day fishery yielded a catch of 972 large Chinook, 163 nonlarge Chinook, and 6,394 sockeye salmon; including 3,200 Tahltan Lake origin fish. This harvest was well above the Chinook salmon guideline harvest and close to the Tahltan Lake sockeye salmon guideline harvest of 3,700 fish. The unexpected large "pulse" of Chinook salmon cannot be fully explained. This pulse did not manifest in a strong late return to Little Tahltan River, nor was there evidence that this pulse of fish showed up at the Verrett River spawning site. (Note: viewing conditions at the Verrett were impaired due to high water.) The total weekly sockeye salmon harvest was comprised of $21 \%$ Tahltan enhanced fish, $35 \%$ Tahltan wild fish, 38\% Tuya, and $6 \%$ mainstem sockeye salmon. The Tahltan sockeye salmon CPUE was 92 fish; average is114 fish. It was observed that the Tuya run
thus far was relatively strong and above predictions in both the U.S. District 106 and 108 fisheries, as well as the Canadian fishery. The preliminary U.S. harvest reported in District 108 this week was below average with a relatively high percentage Tuya Lake origin fish harvested. The sockeye salmon harvest in the upper Stikine aboriginal fishery was 298 fish, slightly above the average of 208 sockeye salmon. It was predicted that over $50 \%$ of the harvest was Tuya Lake origin fish. The Chinook salmon harvest in upper Stikine fishery continues to be below average. The Little Tahltan weir large Chinook salmon count followed suit with only 3 fish counted to date; below the average of 54 fish. The Kakwan CPUE was $51 \%$ of average this week.

In SW 28 (08-14 July) the fishery was posted for an initial two day opening with a Chinook salmon guideline harvest of 172 fish and a guideline harvest of 3,400 Tahltan Lake sockeye salmon. The initial estimate of the run size of 163,700 sockeye salmon, including 63,000 Tahltan Lake origin fish, was downgraded to a run size of 148,100 fish, including 46,800 Tahltan Lake origin fish after two days of fishing. This resulted in a weekly guideline harvest of only 1,500 Tahltan Lake sockeye salmon. The day one harvest of only 1,000 Tahltan Lake sockeye salmon prompted a one day extension. A new run size estimated after two days of fishing as articulated above showed this decision was in error. The three day fishery yielded a harvest of 393 large Chinook, 110 nonlarge Chinook and 5,618 sockeye salmon; including a harvest of 2,300 Tahltan Lake sockeye salmon. The Chinook salmon harvest was above the guideline harvest of 172 fish; the harvest of Tahltan sockeye salmon was below the initial target of 3,400 fish, but above the final weekly target of only 1,500 fish. The dramatic drop in the Tahltan run size appeared evident in the considerable drop in the proportion of thermal marked Tahltan Lake sockeye salmon in this week's harvest. This precipitous drop in Tahltan thermal marks which dropped from $21 \%$ in the previous week to $10 \%$ in the current week was unprecedented. The total weekly sockeye salmon harvest was comprised of $10 \%$ Tahltan enhanced fish, $46 \%$ Tahltan wild fish, $37 \%$ Tuya, and $7 \%$ mainstem sockeye salmon. The drop in Tahltan sockeye salmon CPUE was also dramatic dropping from 92 fish from the previous week to 38 fish in the current week. This week’s CPUE of 38 fish was only 27\% of the average of 143 fish. This week is the historical peak of the Tahltan run through the fishery. The preliminary U.S. harvest estimates for this week indicated the CPUE was below average. The upper river aboriginal fishery harvests were close to average, again it was expected that the majority of the harvest consisted of Tuya Lake origin fish. The Chinook salmon harvests in upper Stikine fishery continue to be below the seasonal average. The Little Tahltan weir count of 128 large Chinook salmon continued to lag well behind the average of 1,584 fish. The upper Stikine recreational fishery harvests were reported as being poor. Zero fish reported transiting the Tahltan Lake sockeye salmon weir this week; on average 2,257 sockeye salmon would have been counted by this date.

In SW 29 (15-21 July) the fishery was posted for an initial two day opening with a guideline harvest of 1,500 Tahltan sockeye salmon. The run size estimate of 166,000 fish was based on averaging the test and commercial CPUE models and the SMM. The Tahltan Lake component was estimated at 54,800 fish. The day one harvest was 1,800 sockeye salmon; including a harvest of 300 Tahltan Lake origin fish. The projected two day harvest was estimated at less than a 1,000 Tahltan Lake sockeye salmon; below the
guideline harvest of 1,500 fish. The below average CPUE on Tahltan Lake sockeye salmon this week and throughout the fishery, thus far, was the deciding factor in not extending this week's fishery. The two day fishery yielded a harvest of 128 large Chinook, 18 nonlarge Chinook and 3,327 sockeye salmon. The Tahltan Lake sockeye salmon harvest of 479 fish was well below the guideline harvest of 1,500 fish. The total weekly sockeye salmon harvest was comprised of $7 \%$ Tahltan enhanced fish, $35 \%$ Tahltan wild fish, $34 \%$ Tuya, and $24 \%$ and mainstem sockeye salmon. The Tahltan sockeye salmon CPUE was 13 fish; the average is 96 fish. The end of SW 29 marked the end of the Tahltan Lake sockeye salmon management regime. The remaining sockeye salmon fishery decisions for the lower commercial fishery were driven by mainstem sockeye salmon abundance and TAC. The upper river Aboriginal harvests were $87 \%$ of average. The Tahltan weir count of 1,880 sockeye salmon was well behind the average of 7,486 fish to date. The Little Tahltan weir count of 227 large Chinook salmon contrasted poorly with the average of 2,626 fish. The upper Stikine Chinook salmon recreational fishery harvests were reported as being poor.

In SW 30 (22-28 July) the fishery was posted for an initial two day opening with a guideline harvest of 3,455 mainstem sockeye salmon. The terminal run size estimate was 140,400 fish based on the average of the SMM (using test and commercial CPUE) and an inriver run size regression using test and commercial CPUE. The estimated run size of mainstem sockeye salmon was 63,300 fish. The day one harvest of 1,600 sockeye salmon, including a harvest of 1,200 mainstem sockeye salmon triggered a six hour extension. The 52 hour fishery ( 2.25 days) yielded a harvest of 74 large Chinook, 13 nonlarge Chinook and 3,502 sockeye salmon; including a mainstem sockeye salmon harvest of 2,793 fish. The mainstem harvest was under the weekly guideline harvest of 3,455 sockeye salmon. The total weekly sockeye salmon harvest was comprised of 3\% Tahltan enhanced fish, $36 \%$ Tahltan wild fish, $9 \%$ Tuya, and $51 \%$ mainstem sockeye salmon. The mainstem sockeye salmon CPUE was 65 fish; the average was 59 fish. The upper river aboriginal harvests remained below average. The Tahltan weir count of 9,621 sockeye salmon was well below the average of 15,910 fish; the projected total weir count was only 18,900 fish. The Little Tahltan weir count of 470 large Chinook salmon continued to lag well behind the average of 4,012 fish. In 2012, the Tahltan River was surveyed, similar to previous years, to determine if the migrant Chinook salmon were holding. There were no obvious migration barriers; however, it appeared that the number of spawners observed in the mainstem Tahltan River below the Little Tahltan weir was impressive (this observation was made by DFO personnel conducting an over flight survey; there is no historical context for comparison). The Chinook salmon recreational fishery reported poor to moderate success.

In SW 31 (29 July-04 Aug) the fishery was posted for an initial two day opening with a guideline harvest of 3,300 mainstem sockeye salmon. The run size projection increased to 143,000 sockeye salmon based on an average of the inriver commercial CPUE regression, an inriver test fishery CPUE regression, the SMM based on commercial CPUE, and the SMM based on the test fishery CPUE. The mainstem projection was 67,900 sockeye salmon. The day one harvest of 1,500 mainstem sockeye salmon triggered an 8 hour extension. The 56 hour ( 2.33 days) fishery yielded a harvest of 17
large Chinook, 1 nonlarge Chinook, 27 coho, 21 chum, and 3,543 sockeye salmon; including a mainstem sockeye salmon harvest of 3,379 fish which was close to the guideline harvest of 3,300 fish. The total weekly sockeye salmon harvest was comprised of $0 \%$ Tahltan enhanced fish, $18 \%$ Tahltan wild fish, $2 \%$ Tuya, and $80 \%$ mainstem sockeye salmon. The mainstem sockeye salmon CPUE was an impressive 101 fish; the average is 56 fish. The upper river aboriginal fishery effort dropped substantially. The Tahltan weir count was only 11,600 sockeye salmon; average is 23,200 fish. The projected total escapement was 15,900 fish. The cumulative count of large Chinook salmon at the Little Tahltan weir remained low at only 630 fish ; average is 4,012 large Chinook salmon.

In SW 32 (05-11 August) the fishery was posted for an initial two day opening with a guideline harvest of 3,669 mainstem sockeye salmon. The TAC was based on a run size projection of 146,600 fish generated from inriver regression models (test and commercial) and the SMM (test and commercial). The projected mainstem sockeye salmon run size was 79,300 fish. The day one harvest of only 870 mainstem sockeye salmon indicated a weakening of the run. This was supported by the substandard test fishery harvests and the poor harvests reported in U.S. District 108 fishery. The fishery was held at two days. The two day fishery yielded a harvest of 8 large Chinook, 54 coho, 74 chum, and 1,743 sockeye salmon; including a mainstem sockeye salmon harvest of 1,643 fish which was well below the guideline harvest of 3,669 fish. The total weekly sockeye salmon harvest was comprised of $0 \%$ Tahltan enhanced, $4 \%$ Tahltan wild, $1 \%$ Tuya, and $95 \%$ mainstem sockeye salmon. The mainstem sockeye salmon CPUE was 54 fish; the average was 53 fish. The upper river Aboriginal fishery effort continued to drop. The Tahltan weir count to date was 12,804 sockeye salmon; the projected total escapement was 14,600 fish. The Little Tahltan weir project ended on 11 August. The final count was 720 large and 51 nonlarge Chinook salmon. The count was well below the Canadian escapement target of 3,300 large Chinook salmon; indeed, it was below the lower end of the escapement goal range of 2,700 to 5,300 large Chinook salmon.

In SW 33 (12-18 August) the fishery was posted for an initial one day opening with a guideline harvest of 1,200 mainstem sockeye salmon. The TAC was based on a run size projection of only 123,000 fish generated from a Tahltan based run reconstruction exercise. The projected mainstem sockeye salmon run size was 60,100. Notwithstanding the most current run size estimate, which significantly dropped from the previous week (SW 32) the test fishery harvests were extremely poor which resulted in a decision to fish only one day this week. This week's one day fishery yielded a harvest of 199 coho, 48 chum, and 361 sockeye salmon; including a mainstem sockeye salmon harvest of 354 fish which was below the guideline harvest by 1,200 fish. The total weekly sockeye salmon harvest was comprised of $0 \%$ Tahltan enhanced, $6 \%$ Tahltan wild, $0 \%$ Tuya, and $94 \%$ mainstem sockeye salmon. The mainstem sockeye salmon CPUE was 27 fish; the average is 38 fish. Few nets remained fishing in the upper river Aboriginal fishery this week. The Tahltan weir count to date was 13,416 sockeye salmon and the projected escapement was estimated at 14,236 sockeye salmon.

In SW 34 (19-25 August) the fishery was posted for an initial one day opening. The run projection dropped to 111,600 fish; including 56,900 mainstem sockeye salmon. The total projection was based on a run reconstruction estimate driven by the terminal run size of the Tahltan component (accounting of the Tahltan stock was considered near completion) and the ratio of the CPUE of the Tahltan stock to the mainstem CPUE and Tuya CPUE stock groupings. The one day fishery yielded a harvest of 159 coho, 22 chum, and 58 sockeye salmon; including 53 mainstem fish. The total weekly sockeye salmon harvest was comprised of $0 \%$ Tahltan enhanced, $2 \%$ Tahltan wild, $0 \%$ Tuya, and $98 \%$ mainstem sockeye salmon. The mainstem sockeye salmon CPUE was 5 fish; the average was 11 fish. No fishing was conducted in the upper Stikine Aboriginal fishery this week; it was presumed that the fishery finished for the season. The Tahltan Lake weir count as of this week was 13,653 sockeye salmon; the total season count is projected to be 13,990 fish.

In SW 35 (26Aug-01 Sept) the fishery was opened for an initial three day period with management objective focused on coho salmon. Of the 19 licensed fishers active in the 2012 Chinook and sockeye salmon commercial fisheries, only 15 licences remained to fish coho salmon. The guideline harvest on coho salmon was 5,000 fish for the season. After two days of fishing and a harvest of 1,029 coho salmon the fishery was extended one day. The four day fishery yielded a harvest of 2,171 coho, 42 chum, and 117 sockeye salmon (all sockeye salmon were mainstem fish).

In SW 36 (02-08 Sept) the fishery was opened for an initial four day opening. The management goal was to harvest the remaining quota of 2,829 coho salmon. The total harvest after four days of fishing was 3,586 coho salmon (above the weekly quota which resulted in exceeding the 5,000 piece coho salmon quota as prescribed by the PST), 42 chum, and 7 sockeye salmon. The fishing conditions were very good; the coho salmon CPUE was well above expectations. The final day of fishing was 05 September. The final coho salmon harvest was 6,188 fish; 404 fish of the total was taken in the course of the sockeye salmon fishery, therefore, not counted toward the 5,000 fish allocation.

## Upper Stikine River Commercial Fishery

A small commercial fishery has existed near Telegraph Creek on the upper Stikine River since 1975. A total of 468 sockeye salmon were harvested in 2012 which is below average. Six large Chinook salmon were harvested; below the average harvest of 15 fish. The fishing effort of 12 boat days fished was below average. Generally, fishery openings were based on the lower Stikine commercial fishery openings lagged one week. The first opening, however, was concurrent with the lower Stikine commercial fishery opening.

## Aboriginal Fishery

The Stikine River Aboriginal fishery which is located near Telegraph Creek, B.C., harvested 513 large Chinook, 170 nonlarge Chinook, and 4,000 sockeye salmon. The harvests of large Chinook, nonlarge Chinook, and sockeye salmon were all below average. The fishing conditions were good throughout the course of the fishery which extended from SW 23-34 (13 May to 10 August).

## Recreational Fishery

The Stikine River salmon recreational fishery targets primarily Chinook salmon and its principal fishing location is located at the mouth of the Tahltan River. Minor sport fishing activities occur in upper reaches of the Tahltan River and in some tributaries of the Iskut River, including Verrett and Craig rivers. In 2012 the catch estimate was 116 large Chinook salmon; 64 fish of which were retained. All of fish were taken in the Telegraph Creek area. The fishing success was reported as relatively poor throughout the course of the Chinook salmon run.

## Escapement

## Sockeye Salmon

The total of 13,687 sockeye salmon counted at the Tahltan Lake weir in 2012 was below the average of 35,206 fish. The 2012 count was below the escapement target of 24,000 fish and below the lower end of the escapement goal range of 18,000 to 30,000 fish. An estimated 5,764 fish ( $43 \%$ of escapement) originated from the fry-stocking program. This is above the $35 \%$ contribution of smolt observed in 2009; the principal cycle year contributing to the 2012 run. A total of 224 sockeye salmon was sacrificed at the weir for stock composition analysis. In addition a total of 3,949 sockeye salmon were collected for broodstock, resulting in a spawning escapement of 9,514 sockeye salmon in Tahltan Lake. The final postseason estimate of 23,326 inriver Tahltan Lake sockeye salmon, minus the inriver harvest of 10,087 fish, resulted in a projected escapement 13,463 Tahltan fish.

The spawning escapements for the mainstem and Tuya stock groups are calculated using stock identification and inriver test and commercial fisheries harvest data. Based on this run reconstruction approach, the postseason escapement estimates are 33,812 mainstem and 13,643 Tuya sockeye salmon. The mainstem spawning escapement is near average and within the escapement goal range of 20,000 to 40,000 fish. Aerial surveys were not conducted due to high turbid water conditions at the index sites.

The existence of stocked Tuya escapement continues to be a concern because of straying of this stock to other Stikine River tributaries. Furthermore, the injury to Tuya River sockeye salmon attempting to ascend the lower reaches of the Tuya River is evident based on reports from First Nations fishers and stock assessment personnel. A study on the behavior of Tuya river sockeye salmon strays in 2004 and 2005 concluded that straying of Tuya River sockeye salmon does not pose a short term genetic risk to natural mainstem Stikine River sockeye salmon. However, over the long term, given enough straying, an interaction/spawning of Tuya strays with natural sockeye salmon may occur. To address problems associated with fish capture in the lower Tuya River; a fishway/trapping apparatus was constructed during the spring of 2006. Unfortunately the Tuya fish trapping project was not prosecuted because of a major rockslide at the Tuya River fishing site that occurred sometime in June 2006. The rockslide rendered the fishing site, for which the fish trap was groomed for, unusable due to changes and river
hydrology as well as the unsafe working conditions at the site. More rockslide activity occurred in May and June 2007 and 2008.

A steering committee consisting of Canadian and U.S. engineers and others visited the site in August 2007 to assess the conditions and to consider other fish capture options. The steering committee decided to proceed with a blasting plan designed to provide fish passage around the newly formed barrier. The project was first attempted in March 2008, but was aborted due dangerous working conditions with an abnormal amount of ice at the blasting site. In late October and early November 2008 the project proceeded and succeeded to remove $120 \mathrm{~m}^{3}$ of rock from the rockslide area.

For the fourth consecutive year, since the barrier was removed, a field visit was conducted to assess the success of the 2008 blasting and to collect baseline biological samples from Tuya River sockeye salmon. On the 27 July, while en route to camp, an aerial survey was attempted at sites above the rockslide barrier. The river viewing conditions were impaired due to the murky nature of the flow. No sockeye salmon were observed; however, the large number of eagles observed ( $n=>50$ ). No fish were observed below the blast site. In past aerial surveys conducted after the 2006 rockslide no fish were observed above the rockslide while many fish (schools) were observed below.

In addition to the aerial survey, set gillnets were fished above and below the blast site. Sockeye, Chinook, and pink salmon were caught at both sites. The set gillnet site located below the blast site, however, had the highest catch, which was probably due to the quality of set gillnet site in that it was set in a natural holding area below the blast site. The number of salmon breaches and the number of successful attempts were recorded over a 60 minute period per day from 27-29 July. Overall, a total of 135 sockeye salmon were observed breaching at foot of the blast site. Of this total $11 \%$ succeed in negotiating the velocity and vertical challenge of the site. In 2010 a total 468 breaches was observed, 80 fish or $17 \%$ succeeded in ascending the river. The 2009 study showed that only $7 \%$ of the fish succeeded negotiating the chute. Approximately $87 \%$ of the breaches and $17 \%$ of the successes occurred at river right section of the flow in 2009. This is the site of the original channel before the 2008 blasting project diverted a large measure of flow to river left. The attraction of this site (river right) is probably due to the $2-3 \mathrm{~m}$ vertical falls and plunge pool.

Work continues in the development of a weir/fish trap combination compatible with the Tuya River flow regime. A template model from a fence located in the Docee River, B.C. is being considered. An initial routing for a tote road scouted in May 2009 was surveyed by DFO surveyors in late August 2010. The final drawings will be used to estimate the cost of constructing a tote road to the new proposed fishing site. Permitting requirements, including community meeting(s) have yet to be addressed. Currently the project is on hold until DFO drafts a strategic, long term plan addressing the issue of excess fish entering the Tuya River.

The fifth year of an experimental test fishery designed to harvest Tuya River sockeye salmon at a site on the mainstem Stikine located between the mouths of the Tahltan and

Tuya rivers was conducted from 21 to 29 July, 2012. The total harvest from the test fishery was 2,306 sockeye, 44 large Chinook, and 5 nonlarge Chinook salmon. Otolith analyses indicate that 2,036 fish ( $88 \%$ ) were Tuya Lake origin sockeye salmon. The balance of the harvest consisted of Tahltan enhanced (4\%), Tahltan wild (5\%) and mainstem sockeye salmon (3\%). The harvest rate on Tuya sockeye salmon was estimate at $18 \%(2,036 / 11,489)$. The stock composition analyses assist in determining the future operation of this project which will be contingent on the success of targeting Tuya bound sockeye salmon while limiting the interceptions of non-Tuya sockeye salmon. The incidental harvest of Chinook salmon will also inform the future of, and possible expansion, of the project. It should be noted that the fishing conditions are very challenging due to high river velocities. It is highly recommended that fishing at this test fish site be limited to persons with extensive experience in both net fishing and river navigation.

## Chinook Salmon

The 2012 Chinook salmon escapement enumerated at the Little Tahltan weir was 720 large fish and 51 nonlarge Chinook salmon. The escapement of large Chinook salmon in the Little Tahltan River was $86 \%$ below the average of 4,989 fish and $78 \%$ below the Canadian escapement target for this stock of 3,300 large Chinook salmon. The weir count was also well below the low end of the Canadian escapement goal range of 2,700 to 5,300 large fish. This is the sixth consecutive year that the lower end of the escapement was not reached. This year's return, however, is a product of a very weak escapement in 2007 (this year's five-year old fish) when only 562 large Chinook salmon were enumerated. The failure from the 2006 escapement of 3,860 (this year's six-year old fish) cannot be fully explained. The nonlarge Chinook salmon count was $77 \%$ below the average of 216 fish.

A MR study was conducted concurrent with the SCMM to assess the inriver Chinook salmon abundance. Inseason MR estimates were calculated weekly SW 24-29 (10 June21 July). The final postseason estimate of total system wide spawning escapement, based on tag recoveries in the commercial fishery and spawning ground recoveries, was 22,327 large Chinook salmon and was below the average escapement of 28,551. The escapement was $23 \%$ above the escapement target of 17,840 large Chinook salmon, but within the escapement goal range of 14,000 to 28,000 fish. The escapement to the Little Tahltan River represented $3 \%$ of the total Stikine River escapement. The percentage is below the average Little Tahltan contribution of $15 \%$. Reasons accounting for the failure of Little Tahltan Chinook salmon stock grouping not reaching even the low end of the Canadian escapement range for six consecutive years are being investigated. Past inriver management actions to change the downward trend including; late commercial openings, reducing the TAC by $30 \%$ until an inseason estimate is generated (usually $3-4$ weeks into the fishery), and reducing the gillnet mesh size during the sockeye salmon fishery to limit the incidental harvest of Chinook salmon have failed in their efficacy.

Stikine River Chinook salmon run timing to the Lower Stikine commercial fishing grounds was normal. Entry time to the Little Tahltan weir was later than average. Verrett Creek escapements counts could not be estimated due to high turbid water. The carcass
pitch crew stationed at the creek from 05-10 August had a challenging time collecting post spawning Chinook salmon due to the flow conditions. The Verrett Creek project is primarily a study to collect spaghetti tags; not to assess escapement numbers. As mentioned earlier in the report, spawning numbers to the mainstem Tahltan River appeared relatively strong and the incidental harvest of Chinook salmon in the Tuya test fishery and the Tuya River sampling project were the highest on record.

## Coho Salmon

An attempt at an aerial survey of five index sites was conducted on 05 November. The survey was aborted due to ice, snow and wind. The Stikine River was frozen to an extent never observed by the surveyors in 28-years of surveys.

A coho salmon drift gillnet test fishery was conducted from 05 September to 13 October 2012. The total harvest of 340 coho and 7 chum salmon, and 29 steelhead trout was taken in 460 drift fishing events. Each event was 10-15 minutes in length. Net dimension were constant at 33 m ( 100 feet) and 150 cm ( 5.5 inches) mesh, by 30 meshes deep. The total cumulative weekly CPUE (catch per drift) was 5.7 fish; average was 6.0 fish. This test fishery has been operated a various levels of vigour since 1986 through to 2011; (Funding in 2007 was not granted.

## Sockeye Salmon Run Reconstruction

The final postseason estimate of the terminal Stikine River sockeye salmon run size is 124,319; 29,514 were of Tahltan Lake origin (wild \& stocked), 33,304 were of Tuya origin (fry from Tahltan broodstock stocked into Tuya Lake), and 61,501 were mainstem stocks (Table 3). These estimates are based otolith recovery and analysis and GSI analysis in the U.S. Districts 106 and 108 harvests; otolith analysis, egg diameter stock composition estimates for inriver harvest from the Canadian commercial, aboriginal, ESSR, and test fishery harvest; and escapement data. Analysis of the CPUE data from the commercial and test fisheries indicate a range in escapement estimates. The 2012 total run was below average and below the preseason forecast of 134,000 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 (Figure 2). 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. 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 catch shares; and, a sockeye salmon catch 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 43 days from May 6 through September 30, 2012. The total harvest included 1,288 Chinook, 125,559 sockeye, 23,666 coho, 192,114 pink, and 566,335 chum salmon. Harvests of pink and chum salmon were above average while harvests of Chinook, sockeye, and coho salmon were below average.

Hatchery stocks contributed substantially to both the sockeye and chum salmon harvests and much less so to the harvest of other species. The 2012 season was the thirteenth year of substantial numbers of adult sockeye salmon returning to the Snettisham Hatchery inside Port Snettisham. These fish contributed to the harvests in Taku Inlet and Stephens Passage. The Speel Arm Special Harvest Area (SHA) inside Port Snettisham was opened to common property fishing during SW 34 to target Snettisham Hatchery sockeye 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 revised escapement goal along with the 2012 preseason terminal run estimate of 48,036 Taku River large Chinook salmon permitted directed Chinook salmon fisheries in District 111. When portioned over average run timing, the allowed harvest was deemed sufficient to provide limited commercial fishing opportunities and 12-hour openings were allowed on Monday in SW 19 and 20. The first inseason estimate of Chinook salmon run strength generated in SW 20, and all subsequent estimates, was substantially less than the preseason forecast and provided no AC for directed fisheries. The U.S. did not prosecute any further directed commercial Chinook salmon fisheries in 2012. Based on the preseason forecast, effective April 25 in SW 17, existing regulations were liberalized for the sport fishery in District 111. After the weekly run estimates continued to be poor, the liberalized regulations were rescinded effective June 1, in SW 22. The total 2012 traditional drift gillnet Chinook salmon harvest in District 111 was 1,288 fish. The final harvest estimate, including personal use, sport, and commercial drift gillnet and troll harvests through SW 28, is 1,370 large Taku River Chinook salmon based on GSI and CWT analyses. This harvest is well below the 3,500 fish BLC provided by the PST. The final spawning escapement estimate for the Taku River Chinook salmon run is 19,538 large Chinook salmon which falls within the new escapement goal range of 19,00036,000 fish.

The traditional District 111 drift gillnet sockeye salmon harvest was 125,559 fish and was average. Weekly sockeye salmon harvests and CPUE were below average in 2012 with the exception of SW 29, 30, and 32. Domestic hatchery sockeye salmon stocks began to contribute to the traditional fishery in SW 27 and added substantial numbers to the harvests in SW 29-34. Of the total traditional District 111 sockeye salmon harvest, 43\% occurred in Stephens Passage, which is greater than the average of $36 \%$. This increase is primarily due to a relatively strong return of Snettisham Hatchery origin sockeye salmon.

Contributions of U.S. hatchery sockeye salmon to the traditional District 111 drift gillnet fishery totaled 63,963 fish or $51 \%$ of the harvest. These were predominately Snettisham Hatchery sockeye salmon but also included a small number of thermally marked fish from a fry-stocking program at Sweetheart Lake in Port Snettisham. The final harvest estimate of wild Taku River sockeye salmon in the traditional District 111 fishery is 45,410 fish (36\%).

Table 4. Taku sockeye salmon run reconstruction, 2012. Estimates do not include spawning escapements below the U.S./Canada border.

${ }^{\text {a }}$ U.S. harvest estimate differs from Joint Interception Committee estimate because no estimates are made for harvest other than the listed fisheries.

Once the minimum of the 4,000 to 13,000 sockeye salmon escapement goal range to Speel Lake was achieved, Port Snettisham and the Speel Arm SHA were opened concurrently with the traditional fishery in SW 34-36.

Coho salmon stocks harvested in District 111 include runs to the Taku River, Port Snettisham, Stephens Passage, and local Juneau area streams as well as Alaskan hatcheries. The traditional District 111 coho salmon harvest of 23,666 fish was $63 \%$ of the average of 37,500 fish. CWT analyses indicate Alaskan hatchery coho salmon contributed 556 fish or $3 \%$ of the traditional District 111 harvest.

Management emphasis for the District 111 drift gillnet fishery shifted to sockeye salmon beginning in SW 25. Management actions to conduct the Taku River directed sockeye salmon drift gillnet fishery 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 was based on fishery CPUE and Canyon Island fish wheel catches. As the fishing season progressed sufficient data was available to estimate the inriver run size from the MR program at Canyon Island and the Taku Management Model that uses migratory timing and historical fishery harvest data to forecast the entire Taku River sockeye salmon run. In the first week of sockeye salmon management, SW 25 (starting June 17), Section 11-B was open for two days with the north line restricted to the latitude of Jaw Point, and a six-inch maximum mesh size imposed to aid in conservation of Chinook salmon. Thirty-two boats harvested 376 Chinook salmon of which 206 were Taku River large fish. The sockeye salmon harvest was $37 \%$ and CPUE was $70 \%$ of the average.

In SW 26, Section 11-B was opened for two days due to the slowly developing sockeye salmon return. Twenty-nine boats harvested 168 Chinook salmon of which 75 were Taku River large fish. The sockeye salmon harvest was $28 \%$ while CPUE was $93 \%$ of average. With high water in the Taku River hampering data collection, no inseason estimate of run strength could be generated.

Fishing time for SW 27 was set for two days in Section 11-B due to poor inriver sockeye salmon indicators and poor marine harvests. Effort doubled and 60 boats harvested 251 Chinook salmon, 164 of which were Taku River large fish. Sockeye salmon harvest and CPUE were respectively $38 \%$ and $88 \%$ of average. The first weekly estimate of sockeye salmon run size was $71 \%$ of the average for the week, projecting an inriver run of 99,500 sockeye salmon.

Table 5. U.S. inseason forecasts of terminal run size, total allowable catch, inriver run size, and the U.S. harvest of wild Taku River sockeye salmon for 2012.

| Stat | Inriver | Terminal <br> Run | Total | U.S. | Projected |
| :--- | ---: | ---: | ---: | ---: | ---: |
| Week | Run | TAC | TAC | U.S. Catch |  |
| 27 | 99,459 | 119,013 | 44,013 | 35,210 | 19,554 |
| 28 | 131,917 | 155,697 | 80,697 | 64,774 | 24,050 |
| 29 | 125,768 | 163,830 | 88,830 | 71,064 | 38,062 |
| 30 | 141,172 | 203,240 | 128,240 | 101,310 | 62,069 |
| 31 | 162,064 | 207,372 | 132,372 | 104,574 | 45,348 |
| 32 | 176,745 | 222,388 | 147,388 | 116,437 | 45,644 |
| 33 | 158,248 | 201,367 | 126,367 | 97,302 | 43,119 |

${ }^{a}$ Terminal run does not include any marine harvest of Taku River salmon that might occur outside of District 111.

Fishing time for SW 28 was set for two days in Section 11-B with continued poor inriver sockeye salmon indicators and weak marine harvests. A six-inch minimum mesh size restriction was imposed south of Circle Point to conserve passing wild Port Snettisham sockeye salmon stocks, but still allowing an opportunity to harvest the enhanced DIPAC chum salmon returning to the area. Eighty-two boats harvested 95 Chinook salmon. With insufficient port sampling data to determine the ratio of large to small fish and no tag recoveries from the SW 28 harvest, all Chinook salmon were counted as Taku River origin fish. The total gillnet harvest estimate of large Taku Chinook salmon during the accounting period (SW 19-28) is 668 fish. Sockeye salmon harvest and CPUE were respectively $38 \%$ and $75 \%$ of average. The second weekly estimate of Taku River sockeye salmon run size was $94 \%$ of the average for the week, projecting an inriver run of 131,900 sockeye salmon.

Fishing time for SW 29 was set for two days in Section 11-B. Sockeye salmon harvests and CPUE had been below average in the marine fisheries and an extended period of optimal water levels on the Taku River resulted in Canyon Island fish wheel sockeye salmon catches only two-thirds of average. A six-inch minimum mesh size restriction remained in place south of Circle Point. Effort increased to the 2012 maximum of 131 boats with sockeye salmon harvest and CPUE $126 \%$ and $156 \%$ of their respective average. Preliminary analysis of otoliths revealed that $24 \%$ of the sockeye salmon harvests from Taku Inlet during this week were of Snettisham Hatchery origin, over twice the average for the week. TBR enhanced sockeye salmon of Tatsamenie and Trapper Lake origin contributed $4 \%$ and $1 \%$ respectively to the harvest in Taku Inlet this week. Samples were not obtained from Stephens Passage. The weekly Taku River sockeye salmon estimate projected an inriver run of 125,800 sockeye salmon, a decline from the previous week.

Even with continued optimal water levels in the Taku River, Canyon Island fish wheel catches continued to be below average. Daily Canadian inriver fishery performance had been variable and generally also below average. The unusually strong presence of DIPAC enhanced sockeye salmon in the previous week's harvest aroused speculation as to the origin of the fish contributing to the previous weeks increased harvest. With the presence
of a sizeable fleet in the area, fishing time for SW 30 was set for two days in Section 11B. The six-inch minimum mesh size restriction remained in place south of Circle Point. Effort was slightly above average with 126 boats harvesting nearly twice the average number of sockeye salmon with CPUE $173 \%$ of average. No extension was given in Taku Inlet due to the uncertainty of the origin of the harvest, as the Canyon Island fish wheel catches had not shown a similar strong increase in sockeye salmon abundance when the management decision needed to be made. An aerial survey of Crescent Lake in Port Snettisham revealed escapement levels much improved from recent years which, along with the high DIPAC enhanced component, suggested good returns to Port Snettisham sockeye salmon systems. Stephens Passage south of Circle Point was extended an additional day with the six-inch minimum mesh restriction remaining. Otolith analysis revealed that $49 \%$ of the sockeye salmon harvested in Taku Inlet and $70 \%$ of the harvest in Stephens Passage were of Snettisham Hatchery origin; both well above average. TBR enhanced Tatsamenie Lake origin sockeye salmon contributed $4 \%$ to Taku Inlet harvests. The weekly Taku River sockeye salmon estimate increased, projecting an inriver run of 141,600 fish.

Fishing time for SW 31 was set for three days in Taku Inlet and Stephens Passage due to the much improved marine fishery and inriver indicators. The six-inch minimum mesh size restriction remained in place south of Circle Point. Section 11-C was opened for three days due to adequate pink salmon returns to mainland systems. Effort declined some to 116 boats initially, but dropped significantly after the first day due to reduced sockeye and chum salmon harvests. Sockeye salmon harvest and CPUE dropped nearly in half from the previous week and both were below average. Otolith analysis revealed that $36 \%$ of the sockeye salmon harvest from Taku Inlet and $61 \%$ from Stephens Passage were of Snettisham Hatchery origin and TBR enhanced Tatsamenie Lake origin sockeye salmon contributed 5\% to the Taku Inlet harvest. The weekly Taku River sockeye salmon estimate projected an increase in the inriver run to 160,000 fish.

Fishing time for SW 32 was set for three days in Taku Inlet, Stephens Passage, and Section 11-C. Initial effort declined to 89 boats with two-thirds of the fleet fishing in Stephens Passage focusing on the strong return of enhanced Snettisham Hatchery sockeye salmon. Sockeye salmon harvest and CPUE in Taku Inlet were below average, while in Stephens Passage, harvest and CPUE were above average. Otolith analysis indicated that $45 \%$ of the sockeye salmon harvest from Taku Inlet and $92 \%$ of the harvest from Stephens Passage were of Snettisham Hatchery origin. TBR enhanced Tatsamenie Lake origin sockeye salmon contributed $7 \%$. The weekly Taku River sockeye salmon estimate projected an inriver run of 181,000 fish, the highest estimate of the season.

Fishing time for SW 33 was set for three days in Taku Inlet, Stephens Passage, and Section 11-C. The opening was delayed until Monday noon due to the Golden North Salmon Derby occurring in Juneau Area waters. Initial effort remained steady at 102 boats with many leaving for better opportunity elsewhere. About two-thirds of the fleet again focused efforts in Stephens Passage. Sockeye salmon harvest and CPUE in Taku Inlet were $133 \%$ and $115 \%$ of average, while in Stephens Passage, harvest and CPUE were $107 \%$ and $56 \%$ of average. Otolith analysis indicated $36 \%$ of the harvest from Taku

Inlet and $75 \%$ of the harvest from Stephens Passage were of Snettisham Hatchery origin. TBR enhanced Tatsamenie Lake origin sockeye salmon contributed 9\% to the Taku Inlet harvest. The weekly Taku River sockeye salmon estimate projected an inriver run of 174,200 fish. Coho salmon catch and CPUE were $304 \%$ and $236 \%$ of average.

The fall drift gillnet season in District 111 lasted seven weeks, beginning on August 19 in SW 34, and lasting until September 3 in SW 40. During this time management focus switches from sockeye to coho salmon abundance. Fishing time in Section 11-B and 11-C during SW 34 was set at a conservative two days due to poor Canyon Island coho salmon fish wheel catches and mixed inriver fishery indicators. The minimum sockeye salmon escapement to Speel Lake was achieved and the Speel Arm SHA and Port Snettisham were opened for two days concurrent with the rest of the district. An above average 55 boats made landings in the District 111 traditional area this week. Nearly 70 boats began in the Speel Arm SHA to target Snettisham Hatchery sockeye salmon, but harvest rates were well below historical openings in the area. By the end of the first day most boats had left Port Snettisham for other areas. The very small fleet that began in Taku Inlet experienced good coho salmon harvest rates on the first day, but harvest rates declined with the arrival of the fleet from Port Snettisham. The coho salmon harvest was one-third of the previous week's harvest. In Taku Inlet, coho salmon harvest and CPUE were 108\% and $126 \%$ of their respective averages. The Speel Arm SHA sockeye salmon harvest was a disappointing 14,700 sockeye salmon; the vast majority of which were estimated to be of Snettisham Hatchery origin. The weekly Taku River sockeye salmon estimate declined and projected an inriver run of 158,248 fish. The first inseason estimate of Taku River coho salmon abundance projected an inriver run of 99,000 fish.

Fishing time in Section 11-B, including the Speel Arm SHA, was set for three days in SW 35. A below average 35 boats had coho salmon harvest and CPUE that were 73\% and $98 \%$ of average, respectively. In the Speel Arm SHA, eight boats harvested 620 sockeye salmon. The final weekly Taku River sockeye salmon estimate projected an inriver run of 158,248 fish.

Fishing time in Section 11-B including the Speel Arm SHA was set for three days in SW 36. A below average 32 boats had coho salmon harvest and CPUE that were $73 \%$ and $103 \%$ of their respective averages. There was no effort in the Speel Arm SHA.

Fishing time in Section 11-B was set for a below average three days in SW 37 based on low effort and average harvest rates in the marine fishery and mixed inriver indicators. In the marine fishery, a below average 19 boats had coho salmon harvest and CPUE that were $23 \%$ and $52 \%$ of average, respectively.

Fishing time in Section 11-B was set for three days in SW 38. A below average 15 boats had coho salmon harvest and CPUE of $28 \%$ and $63 \%$ of their respective averages.

For the remaining two weeks of the season, Section 11-B was open for a below average three days each week. The below average fleet had coho salmon harvest and CPUE of $30 \%$ and $65 \%$ of average, respectively. The final inseason Taku River coho salmon
estimate projected an inriver run of 79,841 fish which was well above the PST mandated inriver passage of 38,000 coho salmon. The escapement past all fisheries was 66,960 fish. The traditional District 111 sockeye salmon harvest for the SW $34-40$ period was $24 \%$ of average.

Several other fisheries in the Juneau area harvested transboundary Taku River salmon stocks in 2012. Personal use permits were used to harvest an estimated 1,287 Taku River sockeye salmon. A number of Chinook salmon stocks are known to contribute to the Juneau area sport fishery, including those from the Taku, Chilkat, and King Salmon rivers, and local hatchery stocks, but the major contributor of large, wild mature fish was believed to be the Taku River. Of the Chinook salmon harvested in the D111 gillnet fishery, 668 fish were estimated to be of Taku River origin based on GSI analysis.

## Canadian Fisheries

The Taku River commercial fishery harvest was 1,930 large Chinook, 479 nonlarge Chinook, 29,938 sockeye, and 11,548 coho salmon, in 2012. Sockeye salmon originating from Taku fry stocks contributed an estimated 3,108 fish to the harvest; comprising $10 \%$ of the total sockeye salmon harvest. The harvest of large Chinook salmon was below the average and nonlarge Chinook salmon was close to average. In 2005, as a result of the new Chinook salmon agreement which allows directed Chinook fishing if abundance warrants harvest accounting for small 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 from the MEF). Hence, comparisons with catches prior to 2005 should be viewed accordingly. The harvests of sockeye and coho salmon were each above their respective averages. There were 62 days of fishing; close to average. The seasonal fishing effort of 418 boat days was above average. As in recent years, both set and drift gillnets were used, with the majority of the harvest taken in drift gillnets. The maximum allowable mesh size was 20.4 cm ( 8.0 inches) except for the period from June 17 (SW 25) through July 14 (SW 28) at which time it was reduced to 14.0 cm ( 5.5 inches) in order to minimize incidental harvest of Chinook salmon.

An additional 865 large Chinook, 98 nonlarge Chinook, 6 sockeye and 2,200 coho salmon were harvested in assessment/test fisheries. The harvest of large Chinook salmon was close to average and the harvest of nonlarge Chinook salmon was about half of the average. The harvest of sockeye salmon was below average; the harvest of coho salmon was close to average. It should be noted that the timing of the assessment/test fisheries has varied from year to year and as with the Chinook salmon adult/jack distinction noted above, any comparisons should be viewed accordingly. The assessment/test fishery responsible for the Chinook (and sockeye) salmon harvests was conducted by the commercial fleet; that responsible for the coho salmon harvest was conducted by two to three boats operating under a scientific collection license. The Chinook salmon assessment/test fishery took place from May 20 (SW 21) through June 13 (SW 24). The coho salmon assessment/test fishery took place from September 9 (SW 37) through October 2 (SW 40).

In addition to the commercial and assessment/test fishery harvests, 81 Chinook, 169 sockeye, and 324 coho salmon were harvested in the Aboriginal fishery in 2012. All fish were harvested in the lower river. Based on commercial harvest data it is estimated that of the 67 Chinook salmon harvest were large and 14 were small.

Recreational harvest figures are not available, but as in recent years it is assumed that about 105 large Chinook salmon were retained in this fishery. The harvests of other species are again believed to have been negligible.

The bilateral preseason Chinook salmon forecast, based on sibling relationships, was for a terminal run of 48,036 fish; below the average run of 49,000 fish. At a run size of this magnitude, factoring in the revised interim MSY escapement point target of 25,500 fish,
the AC was 14,136 fish with 7,436 fish ( $53 \%$ of total) allocated to Canada and 6,700 fish ( $47 \%$ of total) allocated to the U.S. Adding the BLC of 1,500 fish for Canada and 3,500 fish for the U.S. meant that that the TAC was 19,136 fish. This does not factor in use of the midpoint of the escapement goal range versus the MSY point goal for management during the first few weeks of the fishing season.

As in 2012, the fishing plan indicated that the fishery was to be managed to the weekly guidelines reduced by $30 \%$ (Table 6.) until an inseason run assessment could be made. As in previous years, reliable inseason projections were not expected until after mid-May or three weeks of fishing. The AC was reduced because the preseason forecast was believed to be biased high, as has been the case in recent years; Chinook salmon productivity appears to be lower than identified in the forecast models. Once reliable joint Canada/U.S. inseason projections were available, the fishery was to be managed to full directed fishery guidelines with the objective of meeting escapement and agreed harvest sharing objectives. Alternatively, in the event the run appeared to below forecast, the commercial fishery was to be reduced to a strictly assessment mode and serve as the test fishery identified in the PST agreement (as occurred in 2007, 2008 and 2011).

Table 6. Weekly large Chinook salmon guideline harvest for the Canadian commercial fishery in the Taku River in 2012.

| Week | Assessment/Test <br> Harvest | Directed <br> Harvest | Guideline Harvest |
| :--- | :---: | :---: | :---: |
| 17 | - | 148 | 104 |
| 18 | 129 | 673 | 471 |
| 19 | 273 | 1,419 | 993 |
| 20 | 246 | 1,282 | 897 |
| 21 | 220 | Inseason estimate | Inseason estimate |
| 22 | 207 | Inseason estimate | Inseason estimate |
| 23 | 191 | Inseason estimate | Inseason estimate |
| 24 | 153 | Inseason estimate | Inseason estimate |
| Total | 1,400 |  |  |

${ }^{\text {a }}$ All harvests apportioned by average run timing; the SW 17 assessment/test harvest of 28 fish was distributed to the other weeks in accordance with average timing.

After inseason run projections identified the availability of an AC, weekly guideline harvests were to be developed to guide management decisions so that: a) the harvest was consistent with conservation and Treaty goals; and b) management was responsive to changes in projections of abundance, i.e. abundance based. The guidelines were based on joint Canada/U.S. run assessments using MR estimates plus D111 harvests through the previous week; the sum was then expanded by historical run timing which was assumed to be average unless otherwise agreed to by managers of both parties. Management of the Chinook salmon fishery was predicated upon weekly guidelines in order to avoid over harvesting specific components of the run. Base level catches were not used in calculation of the guidelines; rather they were set aside for Aboriginal, recreational, and directed sockeye salmon fisheries.

As per normal procedures, weekly fisheries for Chinook, sockeye and coho salmon opened at noon Sunday in 2012. 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 gillnets and set gillnets, net length was restricted to a maximum of 36.6 m ( 120 feet); mesh sizes were restricted to between 100 mm (four inches) and 204 mm (8 inches) except for the period from June 17 (SW 25) through July 14 (SW 28) when the maximum permissible was 14.0 cm ( 5.5 inches).

The management plan indicated that the commercial Chinook salmon fishery would open at a reduced directed fishery level at noon on Sunday, April 29 (SW 18) for an initial 48hour period. On occasion, the first opening for Chinook salmon has been delayed until midweek in order to increase the likelihood that river conditions would permit fishing (i.e. there were ice free areas), however this was not the case in 2012. The target harvest for this week was 471 fish. The guideline for the previous week for which there was no opening was 104 fish; these were not targeted. Water levels were low but close to average. Based on a day 1 harvest of 34 pieces the fishery was extended one day. The day 2 harvest was 62 pieces, so with plenty of room in the guideline the fishery was extended to 4 days. There was little interest in fishing beyond this as fishers were still in the process of preparing equipment, landing stations, and living quarters for the season. By closing there were six licenses present; comparable to the number starting out in 2010 and 2011. The harvest for the week was 184 fish; 287 fish below the reduced guideline. The CPUE was 9 fish per boat day (fbd), slightly below the 2005-2011 average of 11 fbd.

The reduced directed fishery guideline for SW 19 (May 6-12) was 993 fish. An initial opening of three days was posted. The river remained low and clear. The day 1 harvest was 157 fish and the opening was extended one day. The final harvest after four days of fishing was 494 fish with an average of 7.5 licences fishing daily. The weekly CPUE of 16 fish was below the 2005-2011 average of 25 fish.

SW 20 (May 13-19) was posted for three days with a reduced directed fishery guideline of 897 fish. The harvest for day 1 was only 86 fish. Factoring in reports of poor fishing the previous week in D111 as well as poor Canyon Island gillnet catches, no extension was posted. Harvests improved considerably, however, for days 2 and 3 resulting in a weekly total of 482 fish. The river level was higher than in 2011, but still below average; due to another late spring the freshet was again delayed. The CPUE was 20 fbd , below the average of 43. Eight licences fished in SW 20.

At this point, the MR data was deemed to be sufficient data for generating an inriver abundance estimate and the first Canada/U.S. joint inseason run size projection was made. The MR estimate of 3,084 fish was added to the U.S sport and gillnet fishery harvest through SW 19 (448 fish); the total was expanded using average run timing at Canyon Island (30\%) for a terminal run size projection of 14,070 fish. This was substantially below both the preseason forecast of 48,036 fish and the number required for directed fishing in both the Canada and U.S.

As a result of this low run size projection, the fishery shifted to assessment/test mode. In order to spread the effort out over three days for the MR estimator the openings were
discontinuous, ranging from two to 20 hours in duration. All openings started at noon and on consecutive days starting with Sunday. Weekly harvest targets were based on the overall test fishery target of 1,400 fish apportioned by average run timing.

The SW 21 (May 20-26) target was 202 fish and the fishery was opened initially for two hours. This was followed by a 4 -hour opening and then a 20 -hour opening; resulting in a harvest of 235 fish. Water levels had finally started to rise for this week's fishery and by the end of the week the freshet had begun in earnest. The CPUE of 24 fbd was below the average of 31 fbd . The number of licences averaged seven.

The joint run projection made after closing was 11,320 fish; even lower than the first run projection. Projections stayed close to this level for the remainder of the Chinook salmon season i.e. through June 16, SW 24 (Table 7).

The assessment/test fishery target for SW 22 (May 27-June 2) was 207 fish (similar to the previous week's). An initial opening of four hours was posted, followed by a 12 -hour opening and then another four hour opening. The resulting harvest was 239 fish. River levels were below average and dropping over the course of the fishery, however the CPUE of 31 fbd was only slightly above the average of 26 fbd . Once again, there were seven active licences.

The test fishery target for SW 23 (June 3-9) was 191 fish. Openings of four, two, and two hours were posted; resulting in a harvest of 240 fish. The first two openings had the highest CPUE of the season; the third opening saw CPUE drop as river levels started to increase again. The weekly CPUE of 90 fbd was well above the average of 28 fbd . Eight licences were active this week.

The assessment/test fishery target for SW 24 (June 10-16) was 153 fish and openings of two, four, and four hours were posted. The river level was very high and the resulting harvest was 98 fish; consequently a fourth opening was posted, for a period of three hours. This brought the harvest total to 151 fish, within two fish of the target. The CPUE was back down to 28 fbd , close to the average of 31 fbd ; likewise, effort was back to seven licences.

Week 24 marked the end of the Chinook salmon fishery. The run projection made at closing was 11,917 fish. The inriver run was estimated at only 8,297 fish projecting to 10,765 fish the average run timing. As such even without factoring in harvest, it appeared that escapement would be well below the lower end of the target range (19,000-36,000 fish). Therefore, in order to reduce additional Chinook salmon harvest the maximum allowable mesh size was reduced to 14.0 cm ( 5.5 inches) for the directed sockeye salmon fishery.

Three additional run projections were made during fishery. These showed only very modest increases (13,160 fish SW 25; 12,801fish SW 26, and 14,141fish SW 28) and as such the mesh size restriction was not lifted until the Chinook salmon run was complete.

The weekly guidelines assessment/test fish harvest targets sum to 3,132 fish (Table 7); the actual harvest of 2,026 fish was $35 \%$ below. The Chinook salmon bycatch in the sockeye salmon fishery was 748 fish, the Aboriginal harvest of 67 fish, and an assumed recreational harvest of 105 fish; the actual BLC was 920 large Chinook salmon, $39 \%$ below the allocation of 1,500 fish. Efforts taken to minimize commercial bycatch included the mesh restriction noted above and the reduced openings noted below.

Table 7. Forecasts of terminal run size, allowable catch, and weekly guideline, and actual catch of Taku Chinook salmon, 2011.

| SW | Terminal Run | AC | AC reduced <br> by $30 \%$ | Weekly Guideline / <br> Assessment/Test Fish Target | Actual Harvest |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 18 | 48,036 | 7,436 | 5,205 | 471 | 184 |
| 19 | 48,036 | 7,436 | 5,205 | 993 | 494 |
| 20 | 48,036 | 7,436 | 5,205 | 897 | 483 |
| 21 | 14,070 | 0 | 0 | 220 | 235 |
| 22 | 11,103 | 0 | 0 | 207 | 239 |
| 23 | 10,662 | 0 | 0 | 191 | 240 |
| 24 | 10,757 | 0 | 0 | 153 | 151 |
| Total |  |  |  | 3,132 | 2,026 |

The DFO preseason forecast for the run of wild Taku sockeye salmon, based on stock recruitment and sibling analyses, projected a run of 197,313 fish; slightly below the average run of 218,000 fish. Approximately 5,300 enhanced fish from Tatsamenie Lake; above the average enhanced Tatsamenie run size of 4,700 fish. In addition, about 700 enhanced Trapper Lake fish were expected from a 2007 outplant. Based on the treaty arrangement, an enhanced run of $5,000-15,000$ 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 197,313 results in an overall TAC of 122,313 fish; $21 \%$ of this is 25,686 fish.

The forecast for the run of wild Tatsamenie fish was 20,400 fish. The egg-take goal for this season was based on a target of $30 \%$ of escapement up to a maximum of 2.0 million eggs. In light of the favourable Tatsamenie forecast and modest egg-take requirements the coordinated management that typically occurs for Tatsamenie sockeye salmon in Taku Inlet in the U.S. drift gillnet fishery during SW 30-32 (July 22- August 11) and in the Canadian fishery during SW 31-33 (July 29-August 18); i.e. limiting the fisheries to two days/week unless otherwise agreed was unnecessary (as in 2011).

As with the Chinook salmon fishery and 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 enhanced was consistent with conservation and Treaty goals; and b) management was responsive to changes in projections of abundance, i.e. abundance based. However, there was more flexibility regarding harvest timing, with weekly guidelines generally being replaced by cumulative weekly guidelines, and no formal arrangement to concur on run estimates or projections.

The management plan indicated that the sockeye salmon fishery would open for two days in SW 25 (June 17-23). This was reduced to one day due to the conservation concerns for Chinook salmon plus similar concerns for Kuthai Lake sockeye salmon which had a primary brood year escapement of only 204 fish. The weekly guideline based on the preseason forecast was 2,444 wild fish (Table 8). CPUE was 42 fbd, this was above the average of 33; however SW 25 is often still Chinook salmon season with larger mesh size being used. Nine licenses fished. The enhanced of 379 sockeye salmon was well below the guideline based on the preseason forecast.

SW 26 (June 24-June 30) was also opened conservatively for two days. The cumulative guideline harvest through this week based on the preseason forecast was 4,193 fish. After dropping dramatically in SW 25, the water level was increasing again at a similar rate; as a result fishing was poor and the opening was extended to five days in one day increments. The CPUE of 17 fbd was well below the average of 73 fbd and a record low for this week. A total of 603 fish were caught by seven licences.

Table 8. Canadian inseason forecasts of terminal run size, total allowable catch, and spawning escapement of wild Taku sockeye salmon, 2012.

| SW | Terminal <br> Run | Total Allowable <br> Catch | Projected <br> Escapement | Canadian Total <br> Allowable Catch | Inseason Actual <br> Guideline Harvest |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| 25 | 197,313 | 122,313 | 75,000 | 25,686 | 2,444 | 379 |
| 26 | 197,313 | 122,313 | 75,000 | 25,686 | 4,193 | 957 |
| 27 | 118,204 | 43,204 | 75,000 | 9,073 | 6,385 | 2,593 |
| 28 | 144,558 | 80,967 | 110,034 | 16,193 | 3,358 | 4,703 |
| 29 | 136,838 | 88,830 | 98,890 | 17,766 | 8,009 | 7,167 |
| 30 | 167,722 | 92,722 | 104,555 | 19,472 | 10,644 | 13,729 |
| 31 | 204,053 | 129,053 | 129,398 | 27,101 | 14,578 | 17,679 |
| 32 | 197,466 | 122,466 | 122,314 | 25,718 | 23,565 | 22,027 |
| 33 | 194,786 | 119,786 | 120,622 | 25,155 | 23,958 | 25,062 |

Note: inseason guidelines are based on previous week's run size
The following SW 27 (July 1-7) was also opened for two days. The cumulative guideline harvest through this week still based on the preseason forecast was 6,385 fish with 957 fish harvested. The river level was very high but dropping. CPUE increased to 93 fbd, above the average 66. The fishery was held to two days. The weekly harvest was 1,672 fish with an average of nine licences fishing. An inseason run assessment was made after this week's fishery. This projected a run of only 118,204 fish, well below the preseason forecast of 197,313 wild fish.

SW 28 (July 8-14) was opened for two days. The cumulative guideline, now based on inseason information, was 3,538 fish with a balance of 765 fish. The river level was now slightly below average and fairly stable. The weekly harvest was 2,110 fish, bringing the cumulative to 4,703; above the guideline. Ten licences were active. CPUE was 112 fbd; above the average of 60 . The run projection made after closing showed a moderate increase to 144,558 fish.

Based on this assessment the weekly guideline through SW 29 (July 15-21) was 8,009 fish. With a cumulative harvest to date of 4,703 fish the free balance was 3,306 fish. An opening of three days was posted. The mesh size restrictions were lifted. Mesh sizes of up to 204 mm (8 inches) were again permitted thereby reducing the bycatch of pink salmon which were abundant at this time. The weekly harvest was 2,463 wild fish and 108 enhanced fish with no change in the number of active licences. CPUE was 89 fbd versus the average of 73 fbd . Water levels were above average and increasing during the opening. The run projection made after closing was down slightly to 136,838 fish.

Based on this outlook the cumulative guideline through SW 30 was 10,644 fish. The harvest through SW 30 was 7,167 fish showing a positive balance of 3,478 fish. With a favourable outlook for Tatsamenie sockeye salmon SW 30 was opened for three days. River levels were above average but stable. CPUE was above average and the fishery was extended by one day. The weekly harvest was 6,563 wild fish and 442 enhanced fish with an average of 8.5 licences fishing. The CPUE of 206 fbd was the highest observed in the 2012 season and well above the average of 87 fbd . The run projection made after closing estimate was 167,722 fish.

SW 31 (July 29-August 4) had a cumulative guideline of 14,578 fish and an actual harvest to date of 13,729 showing a positive balance of 849 . The escapement projection was now 123,429 fish, well above target, and showing harvestable surplus. The fishery was again opened for three days harvest rates were high and day one and a one day extension posted. A Tulsequah flood began and water levels increased rapidly for days one through three, dropping rapidly on day four. The CPUE for the week of 165 fbd was above average (108). A total of 4,633 fish ( 3,950 wild and 683 enhanced) were harvested by seven licences. River levels were above average and generally increasing over the course of the opening. The SW 31 run size projection of 204,053 fish showed another increase and the value was now in line with the preseason forecast.

The cumulative guideline SW 32 (August 5-11) was 23,565 fish. The harvest to date was 17,676 fish, and therefore the free balance for the week was 5,888 fish. An opening of four days was posted. River levels were above average and variable. A total of 5,427 fish ( 4,347 wild and 1,080 enhanced) were harvested with seven licences fishing again. CPUE increased slightly over the previous week to 187 fbd well above the average of 112 fbd . There was little change in the run projection (197,466 fish).

SW 33 (August 12-18) had a cumulative guideline of 23,958 fish and there was an actual harvest to date of 22,024 fish; showing a positive balance of 1,935 fish. The fishery was again opened for four days. The CPUE of 127 fbd was down slightly but still well above average ( 75 fbd ). Effort was unchanged. A total of 3,419 fish were harvest, of which 3,035 were wild and 384 were enhanced. River levels dropped to below average over the course of the openings.

SW 33 was the final week of the directed sockeye salmon fishery. The run projection at this time was 194,786 fish. This was associated with a guideline harvest of 23,434 fish; the actual harvest was 25,029 fish. This does not include allowable surplus harvest. The
escapement projection was 120,626 fish, well above the upper end of the escapement goal range. The inriver run projection was 148,418 fish, above the upper end of the spawning escapement goal range times 1.6 , i.e. 120,000 fish. The allowable surplus harvest based on inriver run projections in excess of this value was 28,414 fish. An additional 1,902 and 166 sockeye salmon were harvested in the directed coho salmon fishery and the Aboriginal fishery, respectively. The directed harvest total was 27,097 fish. The total harvest of Taku enhanced fish was 3,136 fish; this included harvests of 2,877 Tatsamenie Lake fish and 258 Trapper Lake fish. In addition, 118 Stikine origin fish were harvested.

The cumulative commercial fishery sockeye salmon CPUE for the season was $1,099 \mathrm{fbd}$, above the average of 782 fbd . Overall, water levels were above average. The increases in maximum net length from 30.5 m ( 100 feet) to 36.6 m ( 120 feet), which were implemented in 2008 and 2009 for drift and set gillnets respectively, were likely a positive influence. CPUE was above average from SW 27 onwards, peaking in SW 30.

The preseason outlook for Taku River coho salmon was based on harvest rates in the Taku River CWT program. They were used to estimate the number of coho salmon smolts which emigrated during the spring of 2011 with survivals to return as adults in 2012. Assuming that the marine survival rate would be similar to average a total run of 164,078 fish was expected in 2012, below the average run size of 212,609 fish. Assuming average U.S. exploitation rates this translated to a border escapement of 100,100 fish.

SW 34 (August 19-25) was opened for four days based on the above forecast and the lack of sockeye salmon constraints. Harvest rates were high and the fishery extended to five days. Water levels fell over the course of the opening to below average. Harvest rates were high ( 86 fbd ; average was 56 fbd ); this, combined with above average effort ( 7.5 fbd; average was 4 licenses) resulted in a record coho salmon harvest for this week of 3,285 fish.

SW 35 (August 26 - September 1) also opened for four days. An assessment made early in the week projected a border escapement greater than 75,000 coho salmon. This meant that a TAC of 10,000 fish, plus projected escapement in excess of the goal of 27,500 to 30,000 fish, was available to Canada. At this point the projected surplus escapement was in excess of 31,000 fish. Water levels were increasing during the early part of the week and the fishery was extended by two days. There were again seven licences active for the opening. The CPUE of 65 fbd was close to the average of 79 fbd . A total of 2,725 coho salmon were harvested, which was also a record harvest.

SW 36 (September 2-8) was opened for four days. A run projection made after day three amounted to 71,205 fish with a projected surplus escapement of 14,546 fish. This was associated with a cumulative guideline of 9,429 fish with 7,267 harvested so far. Effort had dropped to four licences. The fishery was extended by one day and then for the remainder of the week. A total of 2,612 coho salmon were harvested, very close to the previous record harvest of 2,602 fish. Water levels were below average. The CPUE of 90
fbd was an exact match to the average. This marked the last week any significant effort as most fishers prepared to decamp.

SW 37 (September 9-15) was opened for seven days. Only three days were fished and by only one licence, resulting in a harvest of 64 coho salmon. The fishery was again opened for seven days the following two weeks. There was effort only on one day by one licence resulting in a harvest of three coho salmon. The fishery closed for the season at the end of SW 40 (Sunday October 6).

A test fishery was again conducted in 2012 in order to ensure that run assessment continued for the majority of the coho salmon run. The fishery started later than usual due to the above average commercial effort. SW 37 (September 9-15) was the first week of fishing. The fishery continued through October 2 (midway through SW 40), and landed 2,200 coho salmon (no sockeye salmon were landed). As in recent years it was carried out via a contract with Taku Wild, owned and operated by the Taku River Tlingit First Nation. Weekly harvest targets versus actual harvest are as follows:

Table 9. Weekly guidelines and actual harvest for the Taku River coho salmon assessment/test fishery, 2011.

| SW | Target | Actual | Cumulative |
| :--- | ---: | ---: | ---: |
| 37 | 700 | 654 | 654 |
| 38 | 600 | 646 | 1300 |
| 39 | 500 | 500 | 1800 |
| 40 | 400 | 400 | 2,200 |

The postseason coho salmon MR estimate indicates that 84,847 fish reached the border. As per the PST provisions established in 2009, the Canadian AC after SW 33 was 10,000 coho salmon plus surplus escapement ( 35,742 fish). The actual treaty harvest, excluding the test fishery, was 11,872 fish. This includes the commercial harvest taken after SW 33 ( 8,665 fish), plus the Aboriginal fishery catch of 324 fish; it is assumed that the recreational harvest of coho salmon was zero. Subtracting the total inriver harvest of 14,072 fish from the border passage translates to a spawning escapement estimate of 70,775 fish, above the upper end of the escapement goal range of 27,500 to 35,000 fish. The cumulative commercial coho salmon CPUE through SW 35 (which is when the fishery typically finishes) was 254 fbd , above the average of 223 fbd .

## 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 and spawning escapement is then estimated by subtracting the inriver harvest. The postseason above border estimate of escapement in 2012 is 156,877 fish; subtracting the inriver harvest of 30,113 fish (29,938 commercial, 169 Aboriginal, and 6 test fish) indicates that 126,764 sockeye salmon reached the spawning grounds and an estimated 6,725 of these were enhanced fish. This spawning escapement was above average and also above the upper end of the interim escapement goal range of 71,000 to 80,000 sockeye salmon. The Canyon Island fish wheel harvest of 4,441 sockeye salmon was near average.

The sockeye salmon count through the Kuthai Lake weir was 182 fish, even lower than the record low count of 204 fish obtained in the primary brood year (2007). Counts have not exceeded 2,000 fish since 2005; the average escapement is 2,969 fish. The 2012 count was below the primary brood year escapement of 204 fish, which was a record low. They did not arrive until July 28 and passage was sporadic with many days of zero counts. The run midpoint, August 18, was about 19 days later than average.

A weir was again operated at King Salmon Lake in 2012. The count was 5,413 fish; an additional 1,500 were estimated to have passed through a breach in the fence July 29-31. The escapement is above the 2004-2011 average of 2,150 fish. In calculating the average escapement, the 2009 and 2011 values were estimated using an aerial survey expansion, while the 2005 count of five fish was excluded. Approximately 150 fish were removed for a trial egg-take.

The Little Trapper Lake weir count was 10,015 sockeye salmon. This was below average but above the primary brood year count of 7,153 fish. The run timing was about average, with the midpoint occurring on August 10. There were no removals for artificial spawning.

The Tatsamenie Lake weir count of 15,605 was the third highest on record and above both the average and the 2007 primary brood year count of 11,187 fish. The fish arrived at the lake about one week late; however the run midpoint was one week early (August 25). Approximately 1,300 fish were removed for broodstock.

## Chinook Salmon

Spawning escapement of Chinook salmon in the Canadian portion of the Taku River drainage is typically estimated from the joint Canada/U.S. MR program. In 2012, tag application took place from April 27 through July 18. Tag recovery effort consisted of the commercial and assessment/test Chinook salmon fishery from April 27 through June 13 (SW 18-24), as well as the sockeye and coho salmon commercial fisheries (SW 25-38); in addition, there was spawning ground sampling in August and September on the Nakina, Tatsatua, Kowatua, Nahlin, Dudidontu rivers, as well as Tseta Creek. Very few tags were recovered on large Chinook salmon during spawning grounds sampling and tag recovery rates differed significantly from those encountered in the fisheries. As such the escapement of large Chinook salmon was not estimated directly using MR data. However, ample numbers of tags were recovered on medium Chinook salmon and recovery rates were more comparable with fishery recovery rates. This permitted pooling of spawning ground and fishery results, providing a medium sized Chinook salmon
estimate of 6,481 fish. Spawning grounds sampling uses a multitude of gear types including carcass weirs and hand carcass recovery, rod and reel snagging, and even dip nets and the use of multiple gear types has been shown to decrease age, sex, and size selectively. Consequently, the ratio of medium to large sized Chinook salmon seen in the combined spawning grounds sample (i.e., 0.33 ) was used to expand the estimate of the medium sized Chinook salmon escapement. This resulted in a large Chinook salmon spawning escapement estimate of 19,538 fish. This figure is considered provisional and may be revised upon further review of both the data collected and the methodology used.

Aerial surveys of large Chinook salmon to the five escapement index areas were as follows: Nakina 1,300 fish (34\% below average); Kowatua 402 fish (43\% below average); Tatsamenie 660 fish (30\% below average); Dudidontu 126 fish ( $74 \%$ above average); Nahlin 726 fish ( $24 \%$ below average); Tseta Creek was not flown. Survey conditions were good to excellent for each survey. The total count of 3,214 large Chinook salmon was $36 \%$ below average.

Carcass weirs were again operated on the Nakina and Tatsatua rivers in order to obtain tag and ASL data. A total of 232 large Chinook salmon were recovered on the Nakina River; most fish were observed to be spawning below the weir. On the Tatsatua River 610 large Chinook salmon were encountered; $22 \%$ fewer than in 2011 (supplemental angling was used to supplement carcass weir recoveries both years).

## Coho Salmon

Spawning escapement of coho salmon in the Canadian portion of the Taku River drainage was estimated from the joint Canada/U.S. MR program. Tag application occurred from July 2 until September 15 (SW 37) and recovery occurred until October 2 (SW 40). The tag recovery effort consisted of the commercial fishery, augmented by a test fishery from SW 37-40. The postseason above border run estimate is 84,847 fish. Subtracting the inriver harvest of 14,072 fish provides in a spawning escapement estimate of 70,775 fish. This is below average but well above the interim escapement goal of 35,000 fish identified in the Treaty

## Sockeye Salmon Run Reconstruction

An estimated 45,410 wild Taku River sockeye salmon were harvested in the U.S. District 111 fishery. This final postseason estimate was made by GSI/otolith analysis. An additional 1,149 wild sockeye salmon were estimated to have been taken in the U.S. inriver personal use fishery. The estimated total U.S. harvest of wild Taku River sockeye salmon is 46,559 fish (Table 5).

In the Canadian commercial fishery, the postseason harvest estimate of wild Taku River sockeye salmon is 26,830 fish. An estimated 151 wild sockeye salmon were taken in the Canadian Aboriginal fishery. An estimated five wild sockeye salmon were taken in the Chinook salmon test fishery. Therefore, the estimated Canadian treaty harvest of wild Taku River sockeye salmon is 26,981fish (Table 5).

The postseason estimate of the above border run size of wild sockeye salmon, based on the joint Canada/U.S. MR program, is 156,877 fish. Deducting the Canadian inriver harvest from the above border run estimate produces an estimated escapement of 120,038 wild sockeye salmon. The terminal run of wild Taku River sockeye salmon is estimated at 193,584 fish. Based on the escapement goal of 75,000 fish, the TAC was 118,584 wild sockeye salmon.

The escapement of Taku River sockeye salmon originating from the fry stocking program was estimated to be 6,725 fish from broodstock otoliths collected at Tatsamenie Lake and estimated for the Trapper escapement. The final estimate is for a terminal run of 14,029 enhanced Tatsamenie and Trapper fish (Table 4).

## 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, Chapter 1 calls for the development and implementation of cooperative abundance-based management plans and programs for Alsek River Chinook, and sockeye salmon. Interim escapement goal ranges for Alsek River Chinook salmon spawning escapement in the Klukshu River is 1,100 to 2,300 and sockeye salmon was initially set by the TTC at 33,000 to 58,000 sockeye salmon (Klukshu 7,500 to 15,000 fish). The principle escapement-monitoring tool for Chinook and sockeye salmon stocks on the Alsek River is the Klukshu weir, operated by DFO in cooperation with the Champagne-Aishihik First Nation (CAFN). The weir has been in operation since 1976. Traditional MR programs to estimate the total inriver abundance and the fraction of the escapement contributed by the Klukshu stocks were implemented for a number of years one and two decades ago and continue in the form of genetic based estimates funded through the Northern Endowment Fund in more recent years.


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

## Preseason Forecasts

The 2012 overall Alsek River sockeye salmon run was expected to be 70,700 sockeye salmon; this is below the average estimate of 87,000 sockeye salmon. The outlook for 2012 was based on a predicted run of 16,300 Klukshu River sockeye salmon derived from the latest Klukshu River stock-recruitment data (Eggers et al. 2011) and a Klukshu River contribution rate to the total run of 23\% (based on MR results, 2000-2004, and run size estimates using GSI 2005-2006, 2011). Principal contributing brood years were 2007 (Klukshu escapement of 8,310 sockeye salmon) and 2008 (Klukshu escapement of 2,741 sockeye salmon); the average Klukshu sockeye salmon escapement is 14,000 fish.

The Klukshu early sockeye salmon run counts in 2007 were 2,725 fish and 2008 were 43 fish. The average count is 3,400 sockeye salmon which is above the assumed optimum escapement level of 1,500 fish as determined through separate stock-recruitment analyses of the early run conducted by DFO. The early run to the weir was expected to be near this level in 2012.

The Klukshu Chinook salmon escapements in 2006 were 568 fish and 2007 were 677 fish. For comparison, the average is 1,400 Chinook salmon. Based on these primary brood year escapements, the outlook for 2012 was 1,800 Klukshu Chinook salmon, slightly above the average $(1,700)$ and within the escapement goal range.

## U.S. Fisheries

Preseason expectations were for below average runs for both sockeye and Chinook salmon. These expectations were based on parent-year escapements to the Klukshu River. The Alsek River recorded an above average run for sockeye salmon and the escapement goal was achieved in 2012. Chinook salmon returns were below average in 2012 and the escapement goal as measured at the Klukshu River was not attained.

In 2012 traditional management strategies were used 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 the first Sunday in June, SW 23 (June 3) for 24 hours with 9 permits catching 59 Chinook and 110 sockeye salmon. Effort started to decline by SW 31 and management strategies switched to coho salmon around SW 34. Coho salmon are targeted from mid-August on and effort becomes minimal. Fishing times remained at three days per week from SW 35 through the first week in October (SW 41), and the river was not fished during the last four weeks of the season.

The 2012 Dry Bay commercial set gillnet fishery harvested 510 Chinook, 18,217 sockeye, and 536 coho salmon (Table 9). No pink and 1 chum salmon were harvested. The Chinook salmon harvest was average. The sockeye salmon harvest was above average. The coho salmon harvest was below average. Very little effort was recorded during the coho salmon season due to market conditions. The number of fishing days was 20. The total effort expended in the fishery was 188 boat days, which was above average.

The department conducted a test fishery for Chinook salmon in 2012. This test fishery was conducted in 2005 through 2008 but was discontinued in 2009 and 2010 in order to allow Chinook salmon runs to rebuild. The 2012 test fishery opened on May 21 (SW 21) and closed on June 30 (SW 26). Totals of 251 Chinook salmon and 89 sockeye salmon were harvested (harvest quota maximum of 500 fish). The gear used throughout the fishery was an $8 \frac{1}{4}$ inch meshes, 20 fathom set gillnet. All were sampled for ASL, for CWT (just in case, none found), and for genetics.

## Canadian Fisheries

Due to the absence of the harvest monitor position in 2005 through 2010, harvests from the food fishery were estimated based on fishery performance data compared with the weir counts. For 2012, the harvest monitor position was in place for the season. The harvest estimate for 2012 was comprised of the fish taken from the Klukshu River weir (elders only) and an estimate of harvests above/below the weir (based on the past relationship with the weir count and harvest). It is assumed that a near zero harvest of Chinook salmon occurred due to the poor run to the Klukshu River. An estimated 1,734 sockeye and no coho salmon were harvested in the food fishery. The average harvests are 83 Chinook, 1,451 sockeye, and 7 coho salmon.

Final harvest estimates for the Tatshenshini recreational fishery were above average for Chinook salmon, with an estimated 85 fish retained ( 315 released), and near average for sockeye salmon with 52 retained ( 157 released), and an unknown number of coho salmon were retained ( 2 released). These were above average. Due to the poor Chinook salmon return to the Klukshu River, nonretention of Chinook salmon was implemented on July 25 in the Yukon Territory portion of the Tatshenshini River. Retention of sockeye salmon was permitted on August 15th.

Management of salmon in the Yukon Territory is a shared responsibility between DFO and the Salmon Subcommittee (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 Territory. 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 10. Harvest and Klukshu index escapement data for Alsek River sockeye, Chinook, and coho salmon for 2012.

|  | Chinook | Sockeye | Coho |
| :--- | :---: | :---: | :---: |
| Escapement Index $^{\text {a }}$ |  |  |  |
| $\quad$ Klukshu Weir Count | 693 | 17,694 | 1,272 |
| Klukshu Escapement | 693 | 17,176 | 1,272 |
|  |  |  |  |
| Harvest ${ }^{\text {b }}$ |  |  |  |
| U.S. Commercial | 510 | 18,217 | 536 |
| U.S. Subsistence | 50 | 167 | 22 |
| U.S. Test | 251 | 90 |  |
| Canadian Aboriginal | 0 | 1,734 | 0 |
| Canadian Recreational | 85 | 52 | 0 |
| Total | 896 | 20,260 | 558 |

${ }^{a}$ Klukshu River salmon stocks represent an assumed large and variable portion of the total Alsek River salmon escapement.
${ }^{\mathrm{b}}$ U.S. harvest estimate differs from Joint Interception Committee estimate because no estimates are made for harvest other than the listed fisheries.

The 2012 Alsek-Tatshenshini Management Plan was adopted by CAFN, SSC, and DFO. For Chinook and early run sockeye salmon management, the status of the Klukshu River weir counts was to be reviewed on or about July 18 to ensure weir and spawning escapement targets were on track. The status of the late run sockeye salmon would be reviewed the first week of September. Adjustments to inseason fishing regimes in the recreational and aboriginal fisheries would be made if deemed necessary. Other key elements of the plan are described in the paragraphs below.

The center of aboriginal fishing activity in the Alsek River drainage occurs at the CAFN village of Klukshu, on the Haines Highway, 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 $<1,100$ Chinook and $<1,500$ early 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 fish and the possession limit was two Chinook salmon. 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. Starting in 2003, recreational salmon fishing was permitted in the Tatshenshini River seven days a week; this fishery had previously been open from 6:00 am Saturday to 12:00 noon Tuesday each 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 $<1,300$ 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 2012. 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 escapement of each species is enumerated at the weir on the Klukshu River. Current escapement monitoring programs including the Klukshu weir, Village Creek electronic counter, 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 2012 are shown in Table 9.

## Sockeye Salmon

The Klukshu River sockeye salmon weir count was 17,694 fish (count expanded due to high water delaying weir installation until July 13) and escapement estimate was 17,176 fish (Table 9). The count of 5,969 early run fish (count through August 15) was nearly twice of average while the count of 11,725 late run fish was near average. The total escapement of 17,176 fish was above the upper end of the recommended escapement goal range of 7,500 to 15,000 fish. The sockeye salmon escapement to Village Creek was 1,372 fish (average is 2,632 fish).

## Chinook Salmon

The most reliable comparative Chinook salmon escapement index for the Alsek River drainage is the Klukshu River weir count. The Chinook salmon weir count and
escapement was 693 fish (count expanded due to high water delaying weir installation until July 13; Table 9). A minimal harvest above the Klukshu River weir was thought to have occurred due to the poor run so no adjustments to the weir count was made to estimate spawning escapement. The 2012 count was well below the escapement goal range of 1,100 to 2,300 Klukshu Chinook salmon.

## Coho Salmon

The Klukshu River coho salmon weir count was 1,272 , as in past years, the weir count cannot 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

## Egg Collection

In 2012, sockeye salmon eggs were collected at Tahltan Lake on the Stikine River for the 24-year, and in the Tatsamenie Lake system on the Taku River for the 23-year of this program.

## Tahltan Lake

Triton Environmental Consultants Ltd. were contracted to perform the 2012 Egg Take. Egg Take activities were completed with 5.60 million sockeye salmon eggs collected at Tahltan Lake in the fall of 2012 and delivered to Snettisham hatchery, meeting the target of 5.5 million. The historic target has been 6.0 million eggs. The 5.5 million egg target was agreed upon bilaterally prior to the project beginning in August 2012 due to realizing lower than expected escapement to Tahltan Lake $(13,693)$ and associated Treaty guidance to handle such situations. Following this, less than $30 \%$ of the female return would be utilized for broodstock. In the 2012 egg take $29 \%$ of the female escapement was used for the egg take. The ability to reach the egg take goal in 2012 was largely due to the changes in methodology and additional resources that were utilized. An additional broodstock collection crew was employed to acquire broodstock by means of angling from secondary sites where seining is not effective. Broodstock collected through both historical beach seine practices and angling were held in large net pens to ripen. Through the additional efforts in 2012, $76 \%$ of the total females spawned were from short term holding and $25 \%$ of the total females collected were collected from the secondary sites. Without the additional efforts undertaken in 2012, it is clear that the target would not have been achieved. The last day of broodstock collection occurred on September 25 as per the agreed plan and the egg takes were completed from August 31 to September 28.

Initial survivals of Tahltan eggs for many lots were observed to be very low at Snettisham. The first three egg takes resulted in 30-50\% mortality upon arrival at Snettisham hatchery. Average survivals to the eyed stage were $67 \%$, which is almost $20 \%$ below the long term average for the lake and $10 \%$ lower than any other year. The
enhancement subcommittee could not identify any changes in operations or conditions that might account for this low survival. Methods and materials are the same as have been used for many years.

## Tatsamenie Lake

B. Mercer and Associates Ltd was contracted to collect eggs at Tatsamenie Lake. Broodstock was captured for the eighteenth year near the assessment weir at the outlet of Tatsamenie Lake and held until ripe. Broodstock collection began August 17 and continued to September 6. Females were $70 \%$ of the escapement through the weir at Tatsamenie Lake and 5\% of the females were used for broodstock. In 2012 four egg takes were conducted on September 17th and 23rd and October 1st and 6th. An estimated 2.02 million sockeye salmon eggs were delivered from Tatsamenie Lake to the Snettisham Hatchery for incubation and thermal marking. This met the target of 2.0 million as per the agreed bilateral production plan.

Delivery of Tatsamenie Lake eggs to Snettisham Hatchery was delayed to the following day to accommodate egg take activities and ensure enough time to perform the flight as opposed to the flight being the same day after egg collection was completed. Survival upon receipt at Snettisham was very high with an average mortality upon arrival of only $1.2 \%$. Average egg survival to 100 CTU was $96 \%$.

## Trapper Lake

No egg collection activities were planned for Trapper Lake in 2012.

## Incubation, Thermal Marking, and Fry Stocks

Egg incubation and thermal marking program at Snettisham Hatchery went smoothly in year 2011/2012. Snettisham hatchery is operated by DIPAC, a private aquaculture organization in Juneau. A cooperative agreement between ADF\&G and DIPAC provides for Snettisham hatchery to serve the needs of the joint TBR enhancement projects.

Incubation of 2011 brood eggs took place at Snettisham Hatchery and the resultant fry were transported to the appropriate systems from May 25 to June 21, 2012. There were 7 incubators ( $27 \%$ of the eggs collected) lost to IHN this year: numerically 0.54 million and 0.88 million eggs assigned for release into Tahltan and Tuya lakes respectively.

IHN losses were the second highest in the programs history and cumulative losses since 1989 at $9 \%$ are slightly higher than average for sockeye salmon culture in Alaska. The 2012 disease history samples for Tahltan were the highest in the programs history with $97 \%$ positive and $83 \%$ high titer. The enhancement subcommittee will be continuing to assess theses losses and any future ones with regard to any changes in techniques that may be necessary to safeguard against this pathogen.

## Tahltan Lake

A total of 2.126 million fry from the 2011 Tahltan Lake sockeye salmon egg take were stocked back into that lake in 2012. Survival from green-egg to out-stocked fry was $62.8 \%$. Fry stocking took place on May 29 and 30.

## Tuya Lake

There were 1.596 million fry stocked in Tuya Lake on June 20 and 21, 2012. These fish were from eggs collected at Tahltan Lake in the fall of 2011. Survival from green-egg to stocked fry was 51.5\%.

## Tatsamenie Lake

Approximately 86\% of the eggs collected in 2011 from Tatsamenie Lake survived to the fry stage at the Snettisham Hatchery. Between May 25th and May 29th, 2012, 1.649 million sockeye salmon fry were out-stocked into Tatsamenie Lake. In addition, as part of an onshore extended rearing project, 243,000 fry which had been reared to 0.57 grams in the hatchery were placed into four onshore rearing tanks located near the northeast end of the lake (on June 12th). These fish were transported to lake pens in early August and released in two groups, one on August 1 and the other on August 12, at an average size of 2.2 and 3.2 grams, respectively. Very few of these fish out-migrated after release. This was the fourth year of this program. Full evaluation of the success of this study will not be available until these fish return as adults.

## Outplant 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 2012.

## Thermal Mark Laboratories

## ADF \& G Thermal Mark Laboratory

During the 2012 season the ADFG thermal mark lab processed 19,000 sockeye salmon otoliths collected by ADFG 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 an 11-week period. Several escapement samples were also examined. The laboratory provided estimates on hatchery contributions for 86 distinct sampling collections. Estimates of the percentage of hatchery fish contributed to commercial fishery harvests were provided to ADF\&G and DFO fishery managers 24 to 48 hours after samples arrived at the lab.

Final contribution estimates of stocked fish to Alaskan harvest were 10,508 enhanced Stikine River fish to District 106 and 108 and U.S. subsistence fisheries, and 4,177 enhanced Taku River fish to District 111 and U.S. personal use fisheries. Final estimates of contributions to Canadian fisheries included 12,128 enhanced fish to Stikine River fisheries and 3,126 enhanced fish to the Taku River fisheries.

## Canadian Thermal Mark Laboratory

Subsamples of juvenile and adult otolith samples collected at the study lakes during the 2012 season were analyzed at the DFO thermal mark lab in Whitehorse.

## APPENDICES

## Standards

Large Chinook salmon are MEF length $\geq 660$
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 catches of Alaska Hatchery pink and chum salmon
All catches of Tahltan, Trapper, and Tatsamenie, unless otherwise noted, include both wild and hatchery fish.
Bold numbers are incomplete numbers
Italicized numbers indicate GSI estimates do not meet accuracy and precision guidelines established by the TTC: estimating the proportion of mixtures within $10 \%$ of the true mixture $90 \%$ of the time.

Appendix A. 1. Weekly harvest of Chinook salmon in the U.S. gillnet, troll, recreational, and subsistence and estimates of Stikine River bound Chinook salmon in District 108, 2012.

|  | Subsistence |  | D108 sport |  |  |  | D108 gillnet |  |  | D108 troll |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| SW | Large Stikine | Large total | Large non-Stikine | Large Stikine | Nonlarge | Large total | Large non-Stikine | Large Stikine | Large total | Large non-Stikine | Large Stikine | Stikine harvest |
| 18 |  | 28 |  | 28 |  |  |  | 0 |  |  | 0 | -28 |
| 19 |  | 20 | 0 | 20 | 4 | 29 | 0 | 29 | 61 | 7 | 54 | 103 |
| 20 | 0 | 135 | 52 | 83 | 1 | 163 | 26 | 137 | 79 | 41 | 38 | 258 |
| 21 | 1 | 223 | 8 | 215 | 16 | 237 | 40 | 197 | 90 | 41 | 49 | 463 |
| 22 | 8 | 387 | 67 | 320 |  |  |  | 0 | 59 | 46 | 13 | 341 |
| 23 | 0 | 204 | 0 | 204 |  |  |  | 0 | 207 | 78 | 129 | 333 |
| 24 | 5 | 95 | 0 | 95 |  |  |  | 0 | 90 | 12 | 78 | 178 |
| 25 | 4 | 167 | 0 | 167 | 915 | 1,687 | 1,027 | 660 | 93 | 47 | 46 | 877 |
| 26 | 3 | 124 | 159 | 0 | 1,014 | 1,495 | 1,023 | 473 | 176 | 81 | 95 | 570 |
| 27 | 3 | 40 | 0 | 40 | 371 | 762 | 350 | 412 | 0 | 0 | 0 | 455 |
| 28 | 8 | 14 | 0 | 14 | 386 | 320 | 262 | 58 | 4 | 0 | 4 | 84 |
| 29 | 14 | 0 | 0 | 0 | 119 | 190 | 140 | 50 | 0 | 0 | 0 | 64 |
| Total | 46 | 1,437 | 286 | 1,186 | 2,825 | 4,884 | 2,869 | 2,016 | 859 | 353 | 506 | 3,698 |

Appendix A. 2. Weekly harvest of Chinook salmon in the Canadian commercial, Telegraph Aboriginal, and recreational fishery in the Stikine River, 2012.

| SW | LRCF |  |  |  |  |  | URCF |  | Aboriginal Telegraph |  | Tahltan sport fishery |  |  | Canada total large Stikine harvest |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Kept |  | Released |  | Estimated mortality (50\%) |  |  |  |  |  |  |  |  |  |
|  | Large | Non-large | Large | Non-large | Large | Non-large | Large | Non-large | Large | Non-large | Retained | Released | Total |  |
| 19 | 110 | 5 |  |  |  |  |  |  |  |  |  |  |  |  |
| 20 | 291 | 12 |  |  |  |  |  |  | 4 | 0 |  |  |  | 295 |
| 21 | 226 | 36 |  |  |  |  |  |  | 5 | 0 |  |  |  | 231 |
| 22 | 356 | 41 |  |  |  |  |  |  | 6 | 0 |  |  |  | 362 |
| 23 |  |  |  |  |  |  |  |  | 24 | 0 |  |  |  | 24 |
| 24 | 709 | 90 | 1 | 0 | 1 | 0 |  |  | 13 | 0 |  |  |  | 723 |
| 25 | 628 | 89 | 0 | 0 | 0 | 0 |  |  | 75 | 5 |  |  |  | 703 |
| 26 | 334 | 133 | 0 | 0 | 0 | 0 |  |  | 35 | 1 |  |  |  | 369 |
| 27 | 811 | 329 | 0 | 46 | 0 | 23 |  |  | 169 | 61 | 6 | 2 | 6 | 986 |
| 28 | 328 | 175 | 0 | 7 | 0 | 4 | 2 | 0 | 57 | 42 | 6 | 0 | 6 | 393 |
| 29 | 181 | 81 | 0 | 0 | 0 | 0 | 4 | 0 | 76 | 50 | 28 | 12 | 28 | 289 |
| 30 | 51 | 35 | 0 | 0 | 0 | 0 | 0 | 0 | 41 | 10 | 22 | 38 | 22 | 114 |
| 31 | 24 | 14 | 0 | 0 | 0 | 0 |  |  | 8 | 1 | 2 | 0 | 2 | 34 |
| 32 | 5 | 3 | 0 | 0 | 0 | 0 |  |  | 0 | 0 |  |  |  | 5 |
| 33 | 0 | 0 | 0 | 0 | 0 | 0 |  |  |  |  |  |  |  | 0 |
| 34 | 0 | 0 | 0 | 0 | 0 | 0 |  |  |  |  |  |  |  | 0 |
| 35 | 0 | 0 | 7 | 0 | 4 | 0 |  |  |  |  |  |  |  | 4 |
| 36 | 0 | 0 | 2 | 0 | 1 | 0 |  |  |  |  |  |  |  | 1 |
| 37 |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| Total 1 | 4,054 | 1,043 | 10 | 53 | 5 | 27 | 6 | 0 | 513 | 170 | 64 | 52 | 64 | 4,532 |
| Total 1 | 4,064 | 1,096 |  |  |  |  |  |  |  |  |  |  |  | 4,642 |
| Totall | 4,059 | 1,070 |  |  |  |  |  |  |  |  |  |  |  |  |

Appendix A. 3. Weekly harvest of Chinook salmon in the Canadian test fisheries 2012.

| SW | Drift |  | Set |  | Commercial license |  | Tuya |  | Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Large | Non-large | Large N | Non-large | Large | Non-large | Large | Non-large | Large | Non-large |
| 19 |  |  |  |  |  |  |  |  | 0 | 0 |
| 20 |  |  |  |  |  |  |  |  | 0 | 0 |
| 21 |  |  |  |  |  |  |  |  | 0 | 0 |
| 22 |  |  |  |  |  |  |  |  | 0 | 0 |
| 23 |  |  |  |  | 467 | 49 |  |  | 467 | 49 |
| 24 |  |  |  |  |  |  |  |  | 0 | 0 |
| 25 | 9 | 5 |  |  |  |  |  |  | 9 | 5 |
| 26 | 25 | 8 |  |  |  |  |  |  | 25 | 8 |
| 27 | 11 | 11 | 4 | 7 |  |  |  |  | 15 | 18 |
| 28 | 6 | 5 | 3 | 0 |  |  |  |  | 9 | 5 |
| 29 | 1 | 1 | 1 | 1 |  |  |  |  | 2 | 2 |
| 30 | 1 | 0 | 0 | 0 |  |  | 37 | 5 | 38 | 5 |
| 31 | 0 | 0 | 0 | 0 |  |  | 7 | 0 | 7 | 0 |
| 32 | 1 | 1 | 0 | 0 |  |  |  |  | 1 | 1 |
| 33 | 0 | 0 | 0 | 0 |  |  |  |  | 0 | 0 |
| 34 | 0 | 0 | 0 | 0 |  |  |  |  | 0 | 0 |
| 35 | 0 | 0 |  |  |  |  |  |  | 0 | 0 |
| 36 | 0 | 0 |  |  |  |  |  |  | 0 | 0 |
| 37 | 0 | 0 |  |  |  |  |  |  | 0 | 0 |
| 38 | 0 | 0 |  |  |  |  |  |  | 0 | 0 |
| 39 | 0 | 0 |  |  |  |  |  |  | 0 | 0 |
| 40 | 0 | 0 |  |  |  |  |  |  | 0 | 0 |
| 41 | 0 | 0 |  |  |  |  |  |  | 0 | 0 |
| 42 |  |  |  |  |  |  |  |  | 0 | 0 |
| Total | 54 | 31 | 8 | 8 | 467 | 49 | 44 | 5 | 573 | 93 |

Appendix A. 4. Weekly harvest of sockeye salmon in the Alaskan District 106 and 108 fisheries, 2012.

| SW | Subsistence | D106 Total | D106-30 |  |  |  | D106-41/42 |  |  |  | D108 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Harvest | Permits | Days | Permit days | Harvest | Permits | Days | Permit days | Harvest | Permits | Days | Permit days |
| 19 |  |  |  |  |  |  |  |  |  |  | 0 | 11 | 1.0 | 11 |
| 20 | 0 |  |  |  |  |  |  |  |  |  | 0 | 23 | 1.0 | 23 |
| 21 | 0 |  |  |  |  |  |  |  |  |  | 3 | 39 | 1.0 | 39 |
| 22 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 23 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 24 | 71 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 25 | 86 | 3,655 | 636 | 39 | 2.0 | 78 | 3,019 | 10 | 2.0 | 20 | 3,182 | 48 | 2.0 | 96 |
| 26 | 56 | 3,989 | 174 | 41 | 2.0 | 82 | 3,815 | 9 | 2.0 | 18 | 2,763 | 48 | 2.0 | 96 |
| 27 | 116 | 7,341 | 2,520 | 24 | 3.0 | 72 | 4,821 | 23 | 3.0 | 69 | 4,176 | 37 | 3.0 | 111 |
| 28 | 306 | 5,767 | 2,643 | 16 | 3.0 | 48 | 3,124 | 18 | 3.0 | 54 | 3,866 | 53 | 3.0 | 159 |
| 29 | 404 | 9,178 | 2,522 | 12 | 3.0 | 36 | 6,656 | 17 | 3.0 | 51 | 3,443 | 61 | 3.0 | 183 |
| 30 | 163 | 9,539 | 4,278 | 23 | 3.0 | 69 | 5,261 | 20 | 3.0 | 60 | 3,115 | 63 | 3.0 | 189 |
| 31 | 90 | 2,805 | 1,276 | 21 | 3.0 | 63 | 1,529 | 23 | 3.0 | 69 | 851 | 65 | 3.0 | 195 |
| 32 | 6 | 1,718 | 729 | 23 | 3.0 | 69 | 989 | 30 | 3.0 | 90 | 307 | 39 | 3.0 | 117 |
| 33 | 0 | 973 | 659 | 23 | 3.0 | 69 | 314 | 35 | 3.0 | 105 | 171 | 20 | 3.0 | 60 |
| 34 | 4 | 340 | 186 | 16 | 2.0 | 32 | 154 | 24 | 2.0 | 48 | 50 | 26 | 2.0 | 52 |
| 35 | 0 | 96 | 60 | 24 | 2.0 | 48 | 36 | 33 | 2.0 | 66 | 61 | 34 | 2.0 | 68 |
| 36 | 0 | 30 | 10 | 38 | 3.0 | 114 | 20 | 34 | 3.0 | 102 | 5 | 29 | 3.0 | 87 |
| 37 | 0 | 13 | 9 | 52 | 3.0 | 156 | 4 | 23 | 3.0 | 69 | 4 | 27 | 3.0 | 81 |
| 38 | 0 | 21 | 9 | 31 | 3.0 | 93 | 12 | 29 | 3.0 | 87 | 0 | 19 | 3.0 | 57 |
| 39 | 0 | 1 | 0 | 21 | 2.0 | 42 | 1 | 8 | 2.0 | 16 | 0 | 9 | 2.0 | 18 |
| 40 |  | 0 |  |  |  |  |  |  |  | 0 |  |  |  | 0 |
| 41 |  |  |  |  |  |  |  |  |  | 0 |  |  |  |  |
| Total | 1,302 | 45,466 | 15,711 |  | 40 | 1,071 | 29,755 |  | 40 | 924 | 21,997 |  | 43 | 1,642 |

Appendix A. 5. Weekly stock proportions of sockeye salmon harvested in the Alaskan D106 commercial drift gillnet fishery, 2012.

| Data is based on mean GSI estimates from 106-41/42 and 106-30. |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | Stikine |  |  |  | CPUE of | Stikine Fish |  |
| SW | Alaska | AllTahltan | Tuya | Mainstem | Total | TahltanEnhance | WildTahltan | AllTahltan | Tuya | Mainstem | Total |
| 25 | 0.426 | 0.276 | 0.232 | 0.066 | 0.574 | 0.100 | 0.176 | 0.498 | 0.277 | 0.080 | 0.259 |
| 26 | 0.393 | 0.151 | 0.316 | 0.140 | 0.607 | 0.070 | 0.082 | 0.292 | 0.404 | 0.180 | 0.293 |
| 27 | 0.748 | 0.035 | 0.118 | 0.099 | 0.252 | 0.013 | 0.022 | 0.088 | 0.196 | 0.168 | 0.159 |
| 28 | 0.867 | 0.014 | 0.039 | 0.080 | 0.133 | 0.008 | 0.005 | 0.039 | 0.073 | 0.151 | 0.094 |
| 29 | 0.883 | 0.013 | 0.014 | 0.090 | 0.117 | 0.006 | 0.007 | 0.066 | 0.046 | 0.307 | 0.149 |
| 30 | 0.962 | 0.004 | 0.001 | 0.033 | 0.038 | 0.001 | 0.003 | 0.014 | 0.003 | 0.083 | 0.036 |
| 31 | 0.975 | 0.000 | 0.001 | 0.024 | 0.025 | 0.000 | 0.000 | 0.000 | 0.001 | 0.017 | 0.007 |
| 32 | 0.971 | 0.000 | 0.000 | 0.029 | 0.029 | 0.000 | 0.000 | 0.000 | 0.000 | 0.011 | 0.004 |
| 33 | 0.996 | 0.000 | 0.000 | 0.004 | 0.004 | 0.000 | 0.000 | 0.000 | 0.000 | 0.001 | 0.000 |
| 34 | 0.976 | 0.015 | 0.000 | 0.009 | 0.024 | 0.014 | 0.000 | 0.003 | 0.000 | 0.001 | 0.001 |
| 35 | 0.990 | 0.000 | 0.000 | 0.009 | 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 36 | 0.991 | 0.001 | 0.000 | 0.008 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 37 | 0.990 | 0.000 | 0.000 | 0.010 | 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 38 | 0.991 | 0.001 | 0.000 | 0.009 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 39 | 0.992 | 0.001 | 0.000 | 0.007 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 40 |  |  |  |  |  |  |  | 0.000 | 0.000 | 0.000 | 0.000 |
| Total | 0.809 | 0.046 | 0.073 | 0.072 | 0.191 | 0.019 | 0.028 |  |  |  |  |
| 25 | 1,558 | 1,008 | 847 | 242 | 2,097 | 364 | 644 | 10.3 | 8.6 | 2.5 | 21.4 |
| 26 | 1,566 | 603 | 1,262 | 557 | 2,423 | 277 | 326 | 6.0 | 12.6 | 5.6 | 24.2 |
| 27 | 5,490 | 258 | 864 | 730 | 1,851 | 94 | 164 | 1.8 | 6.1 | 5.2 | 13.1 |
| 28 | 4,999 | 79 | 226 | 462 | 768 | 48 | 31 | 0.8 | 2.3 | 4.7 | 7.8 |
| 29 | 8,108 | 119 | 125 | 826 | 1,070 | 53 | 66 | 1.4 | 1.4 | 9.5 | 12.3 |
| 30 | 9,177 | 34 | 10 | 317 | 362 | 10 | 24 | 0.3 | 0.1 | 2.6 | 2.9 |
| 31 | 2,736 | 0 | 3 | 66 | 69 | 0 | 0 | 0.0 | 0.0 | 0.5 | 0.6 |
| 32 | 1,667 | 0 | 0 | 50 | 51 | 0 | 0 | 0.0 | 0.0 | 0.3 | 0.3 |
| 33 | 969 | 0 | 0 | 4 | 4 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 34 | 332 | 5 | 0 | 3 | 8 | 5 | 0 | 0.1 | 0.0 | 0.0 | 0.1 |
| 35 | 95 | 0 | 0 | 1 | 1 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 36 | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 37 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 38 | 21 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 39 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 40 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |  |  |  |
| Total | 36,761 | 2,108 | 3,338 | 3,259 | 8,705 | 852 | 1,256 | 20.7 | 31.2 | 30.9 | 82.8 |

Appendix A. 6. Weekly stock proportions of sockeye salmon harvested in the Alaskan Subdistrict 106-41/42 (Sumner Strait) commercial drift gillnet fishery, 2012.

|  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Data is based on mean GSI estimates |  |  |  |  |  |  | CPUE of Stikine Fish |  |  |  |
| SW | Other | AllTahltan | Tuya | Mainstem | Total | TahltanEnhance | WildTahltan | AllTahltan | Tuya | Mainstem | Total |
| 25 | 0.319 | 0.331 | 0.276 | 0.074 | 0.681 | 0.118 | 0.213 | 0.547 | 0.319 | 0.149 | 0.346 |
| 26 | 0.365 | 0.158 | 0.331 | 0.146 | 0.635 | 0.073 | 0.085 | 0.367 | 0.537 | 0.410 | 0.453 |
| 27 | 0.636 | 0.051 | 0.176 | 0.137 | 0.364 | 0.017 | 0.034 | 0.039 | 0.094 | 0.127 | 0.086 |
| 28 | 0.800 | 0.025 | 0.069 | 0.106 | 0.200 | 0.015 | 0.010 | 0.016 | 0.031 | 0.081 | 0.039 |
| 29 | 0.868 | 0.017 | 0.018 | 0.097 | 0.132 | 0.007 | 0.010 | 0.024 | 0.018 | 0.167 | 0.058 |
| 30 | 0.945 | 0.006 | 0.002 | 0.047 | 0.055 | 0.002 | 0.005 | 0.006 | 0.001 | 0.054 | 0.016 |
| 31 | 0.964 | 0.000 | 0.002 | 0.034 | 0.036 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.003 |
| 32 | 0.995 | 0.000 | 0.000 | 0.005 | 0.005 | 0.000 | 0.000 | 0.000 | 0.000 | 0.001 | 0.000 |
| 33 | 0.992 | 0.001 | 0.000 | 0.007 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 34 | 0.992 | 0.001 | 0.000 | 0.007 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 35 | 0.992 | 0.001 | 0.000 | 0.007 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 36 | 0.992 | 0.001 | 0.000 | 0.007 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 37 | 0.992 | 0.001 | 0.000 | 0.007 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 38 | 0.992 | 0.001 | 0.000 | 0.007 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 39 | 0.992 | 0.001 | 0.000 | 0.007 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 40 | 0.992 | 0.001 | 0.000 | 0.007 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Total | 0.728 | 0.070 | 0.111 | 0.091 | 0.272 | 0.028 | 0.042 | 0.307 | 0.439 | 0.253 | 1.000 |
| 25 | 963 | 1,000 | 832 | 224 | 2,056 | 357 | 644 | 50.0 | 41.6 | 11.2 | 102.8 |
| 26 | 1,393 | 603 | 1,262 | 556 | 2,422 | 277 | 326 | 33.5 | 70.1 | 30.9 | 134.5 |
| 27 | 3,065 | 248 | 849 | 660 | 1,756 | 84 | 164 | 3.6 | 12.3 | 9.6 | 25.5 |
| 28 | 2,498 | 79 | 215 | 331 | 626 | 48 | 31 | 1.5 | 4.0 | 6.1 | 11.6 |
| 29 | 5,780 | 114 | 120 | 642 | 876 | 48 | 66 | 2.2 | 2.3 | 12.6 | 17.2 |
| 30 | 4,972 | 34 | 10 | 245 | 289 | 10 | 24 | 0.6 | 0.2 | 4.1 | 4.8 |
| 31 | 1,475 | 0 | 3 | 51 | 54 | 0 | 0 | 0.0 | 0.0 | 0.7 | 0.8 |
| 32 | 984 | 0 | 0 | 5 | 5 | 0 | 0 | 0.0 | 0.0 | 0.1 | 0.1 |
| 33 | 311 | 0 | 0 | 2 | 3 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 34 | 153 | 0 | 0 | 1 | 1 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 35 | 36 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 36 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 37 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 38 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 39 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 40 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |  |  |  |
| Total | 21,665 | 2,079 | 3,292 | 2,718 | 8,090 | 824 | 1,255 | 91.4 | 130.6 | 75.3 | 297.3 |

Appendix A. 7. Weekly stock proportions of sockeye salmon harvested in the Alaskan Subdistrict 106-30 (Clarence Strait) commercial drift gillnet fishery, 2012.

| Data is based on mean GSI estimates |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Stikine |  |  |  |  |  | CPUE of Stikine Fish |  |  |  |
| SW | Other | AllTahltan | Tuya | Mainstem | Total | TahltanEnhance W | WildTahltan | AllTahltan | Tuya | Mainstem | Total |
| 25 | 0.936 | 0.012 | 0.024 | 0.028 | 0.064 | 0.012 | 0.000 | 0.178 | 0.252 | 0.021 | 0.042 |
| 26 | 0.993 | 0.000 | 0.000 | 0.007 | 0.007 | 0.000 | 0.000 | 0.002 | 0.000 | 0.001 | 0.001 |
| 27 | 0.962 | 0.004 | 0.006 | 0.028 | 0.038 | 0.004 | 0.000 | 0.254 | 0.266 | 0.088 | 0.106 |
| 28 | 0.946 | 0.000 | 0.004 | 0.049 | 0.054 | 0.000 | 0.000 | 0.009 | 0.294 | 0.246 | 0.238 |
| 29 | 0.923 | 0.002 | 0.002 | 0.073 | 0.077 | 0.002 | 0.000 | 0.265 | 0.184 | 0.460 | 0.434 |
| 30 | 0.983 | 0.000 | 0.000 | 0.017 | 0.017 | 0.000 | 0.000 | 0.008 | 0.001 | 0.094 | 0.084 |
| 31 | 0.988 | 0.000 | 0.000 | 0.012 | 0.012 | 0.000 | 0.000 | 0.003 | 0.000 | 0.021 | 0.019 |
| 32 | 0.937 | 0.000 | 0.000 | 0.062 | 0.063 | 0.000 | 0.000 | 0.002 | 0.000 | 0.060 | 0.053 |
| 33 | 0.998 | 0.000 | 0.000 | 0.002 | 0.002 | 0.000 | 0.000 | 0.002 | 0.001 | 0.002 | 0.002 |
| 34 | 0.963 | 0.026 | 0.000 | 0.011 | 0.037 | 0.026 | 0.000 | 0.276 | 0.001 | 0.006 | 0.017 |
| 35 | 0.989 | 0.000 | 0.000 | 0.011 | 0.011 | 0.000 | 0.000 | 0.001 | 0.000 | 0.001 | 0.001 |
| 36 | 0.989 | 0.000 | 0.000 | 0.011 | 0.011 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 37 | 0.989 | 0.000 | 0.000 | 0.011 | 0.011 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 38 | 0.989 | 0.000 | 0.000 | 0.011 | 0.011 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 39 | 0.989 | 0.000 | 0.000 | 0.011 | 0.011 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 40 | 0.989 | 0.000 | 0.000 | 0.011 |  | 0.000 | 0.000 |  |  |  |  |
| Total | 0.961 | 0.002 | 0.003 | 0.034 | 0.039 | 0.002 | 0.000 | 0.044 | 0.062 | 0.894 | 1.000 |
| 25 | 595 | 8 | 15 | 18 | 41 | 8 | 0 | 0.1 | 0.2 | 0.2 | 0.5 |
| 26 | 173 | 0 | 0 | 1 | 1 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 27 | 2,425 | 10 | 15 | 70 | 95 | 10 | 0 | 0.1 | 0.2 | 1.0 | 1.3 |
| 28 | 2,501 | 0 | 11 | 131 | 142 | 0 | 0 | 0.0 | 0.2 | 2.7 | 3.0 |
| 29 | 2,328 | 5 | 5 | 183 | 194 | 5 | 0 | 0.1 | 0.1 | 5.1 | 5.4 |
| 30 | 4,206 | 0 | 0 | 72 | 72 | 0 | 0 | 0.0 | 0.0 | 1.0 | 1.0 |
| 31 | 1,261 | 0 | 0 | 15 | 15 | 0 | 0 | 0.0 | 0.0 | 0.2 | 0.2 |
| 32 | 683 | 0 | 0 | 46 | 46 | 0 | 0 | 0.0 | 0.0 | 0.7 | 0.7 |
| 33 | 657 | 0 | 0 | 2 | 2 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 34 | 179 | 5 | 0 | 2 | 7 | 5 | 0 | 0.2 | 0.0 | 0.1 | 0.2 |
| 35 | 59 | 0 | 0 | 1 | 1 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 36 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 37 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 38 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 39 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 40 |  |  |  |  |  |  |  |  |  |  |  |
| Total | 15,096 | 29 | 46 | 541 | 615 | 28 | 1 | 0.5 | 0.8 | 11.1 | 12.4 |

Appendix A. 8. Weekly stock proportions sockeye salmon harvested in the Alaskan District 108 commercial drift gillnet fishery, 2012.

| Data is based on mean GSI estimates |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Stikine |  |  |  |  |  | CPUE of Stikine Fish |  |  |  |
| Week | Other | AllTahltan | Tuya | Mainstem | Total | TahltanEnhance | WildTahltan | AllTahltan | Tuya | Mainstem | Total |
| 25 | 0.067 | 0.426 | 0.340 | 0.166 | 0.933 | 0.184 | 0.242 | 0.400 | 0.273 | 0.077 | 0.209 |
| 26 | 0.069 | 0.332 | 0.429 | 0.170 | 0.931 | 0.125 | 0.207 | 0.271 | 0.299 | 0.069 | 0.181 |
| 27 | 0.082 | 0.215 | 0.341 | 0.361 | 0.918 | 0.068 | 0.148 | 0.229 | 0.311 | 0.191 | 0.233 |
| 28 | 0.080 | 0.107 | 0.152 | 0.661 | 0.920 | 0.026 | 0.081 | 0.074 | 0.090 | 0.225 | 0.151 |
| 29 | 0.283 | 0.029 | 0.038 | 0.650 | 0.717 | 0.006 | 0.022 | 0.015 | 0.017 | 0.172 | 0.091 |
| 30 | 0.182 | 0.023 | 0.024 | 0.771 | 0.818 | 0.010 | 0.013 | 0.011 | 0.009 | 0.178 | 0.091 |
| 31 | 0.572 | 0.000 | 0.000 | 0.427 | 0.428 | 0.000 | 0.000 | 0.000 | 0.000 | 0.026 | 0.013 |
| 32 | 0.246 | 0.000 | 0.014 | 0.740 | 0.754 | 0.000 | 0.000 | 0.000 | 0.001 | 0.027 | 0.013 |
| 33 | 0.483 | 0.001 | 0.000 | 0.515 | 0.517 | 0.000 | 0.000 | 0.000 | 0.000 | 0.021 | 0.010 |
| 34 | 0.483 | 0.001 | 0.000 | 0.515 | 0.517 | 0.000 | 0.000 | 0.000 | 0.000 | 0.007 | 0.003 |
| 35 | 0.483 | 0.001 | 0.000 | 0.515 | 0.517 | 0.000 | 0.000 | 0.000 | 0.000 | 0.006 | 0.003 |
| 36 | 0.483 | 0.001 | 0.000 | 0.515 | 0.517 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 37 | 0.483 | 0.001 | 0.000 | 0.515 | 0.517 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 38 | 0.483 | 0.001 | 0.000 | 0.515 | 0.517 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 39 | 0.483 | 0.001 | 0.000 | 0.515 | 0.517 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 40 | 0.483 | 0.001 | 0.000 | 0.515 | 0.517 | 0.000 | 0.000 |  |  |  |  |
| Total | 0.150 | 0.171 | 0.204 | 0.475 | 0.850 | 0.062 | 0.109 | 0.239 | 0.279 | 0.482 | 1.000 |
| 25 | 214 | 1,357 | 1,084 | 530 | 2,968 | 587 | 769 | 14.1 | 11.3 | 5.5 | 30.9 |
| 26 | 190 | 918 | 1,186 | 470 | 2,573 | 346 | 572 | 9.6 | 12.3 | 4.9 | 26.8 |
| 27 | 342 | 900 | 1,425 | 1,509 | 3,834 | 283 | 617 | 8.1 | 12.8 | 13.6 | 34.5 |
| 28 | 309 | 414 | 588 | 2,555 | 3,557 | 102 | 312 | 2.6 | 3.7 | 16.1 | 22.4 |
| 29 | 975 | 98 | 131 | 2,239 | 2,468 | 22 | 76 | 0.5 | 0.7 | 12.2 | 13.5 |
| 30 | 567 | 73 | 73 | 2,401 | 2,548 | 32 | 41 | 0.4 | 0.4 | 12.7 | 13.5 |
| 31 | 487 | 0 | 0 | 363 | 364 | 0 | 0 | 0.0 | 0.0 | 1.9 | 1.9 |
| 32 | 76 | 0 | 4 | 227 | 231 | 0 | 0 | 0.0 | 0.0 | 1.9 | 2.0 |
| 33 | 83 | 0 | 0 | 88 | 88 | 0 | 0 | 0.0 | 0.0 | 1.5 | 1.5 |
| 34 | 24 | 0 | 0 | 26 | 26 | 0 | 0 | 0.0 | 0.0 | 0.5 | 0.5 |
| 35 | 29 | 0 | 0 | 31 | 32 | 0 | 0 | 0.0 | 0.0 | 0.5 | 0.5 |
| 36 | 2 | 0 | 0 | 3 | 3 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 37 | 2 | 0 | 0 | 2 | 2 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 38 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 39 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 40 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |  |  |  |
| Total | 3,301 | 3,760 | 4,492 | 10,443 | 18,693 | 1,372 | 2,387 | 35.3 | 41.3 | 71.3 | 147.9 |

Appendix A. 9. Weekly sockeye salmon harvest and effort in the Canadian commercial and assessment fisheries in the lower Stikine River, 2012.

| SW | LRCF |  |  |  | URCF | Telegraph <br> Aboriginal | Drift Net Test |  | Set Net Test |  | Commercial License |  | Test <br> Total | Commercial <br> Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Harvest | Permits | Days | Permit days |  |  | Harvest | \# drifts | Harvest | Hours | Harvest | Hours |  |  |
| 19 | 0 | 18.0 | 2.0 | 36.0 |  |  |  |  |  |  |  |  | 0 | 0 |
| 20 | 0 | 19.0 | 2.0 | 38.0 |  | 0 |  |  |  |  |  |  | 0 | 0 |
| 21 | 1 | 19.0 | 1.0 | 19.0 |  | 0 |  |  |  |  |  |  | 0 | 1 |
| 22 | 7 | 18.5 | 2.0 | 37.0 |  | 0 |  |  |  |  |  |  | 0 | 7 |
| 23 |  |  |  | 0.0 |  | 0 |  |  |  |  | 19 | 57.0 | 19 | 0 |
| 24 | 53 | 19.0 | 3.0 | 57.0 |  | 0 |  |  |  |  |  |  | 0 | 53 |
| 25 | 341 | 19.0 | 1.0 | 19.0 |  | 0 | 23 | 42 |  |  |  |  | 23 | 341 |
| 26 | 977 | 18.0 | 3.0 | 54.0 |  | 1 | 87 | 42 |  |  |  |  | 87 | 978 |
| 27 | 6,394 | 19.0 | 2.0 | 38.0 |  | 298 | 125 | 42 | 491 | 48 |  |  | 616 | 6692 |
| 28 | 5,618 | 19.0 | 3.0 | 57.0 | 118 | 1,318 | 74 | 42 | 203 | 48 |  |  | 277 | 7054 |
| 29 | 3,217 | 19.0 | 2.0 | 38.0 | 260 | 1,113 | 118 | 42 | 122 | 24 |  |  | 240 | 4590 |
| 30 | 3,502 | 19.0 | 2.3 | 42.8 | 90 | 816 | 107 | 42 | 126 | 24 |  |  | 233 | 4408 |
| 31 | 3,543 | 14.3 | 2.3 | 33.4 |  | 343 | 69 | 42 | 154 | 24 |  |  | 223 | 3886 |
| 32 | 1,743 | 15.0 | 2.0 | 30.0 |  | 111 | 17 | 56 | 20 | 24 |  |  | 37 | 1854 |
| 33 | 361 | 13.0 | 1.0 | 13.0 |  |  | 14 | 56 | 12 | 24 |  |  | 26 | 361 |
| 34 | 58 | 10.0 | 1.0 | 10.0 |  |  | 3 | 42 | 11 | 24 |  |  | 14 | 58 |
| 35 | 117 | 15.0 | 4.0 | 60.0 |  |  | 1 | 28 |  |  |  |  | 1 | 117 |
| 36 | 7 | 15.0 | 4.0 | 60.0 |  |  | 0 | 56 |  |  |  |  | 0 | 7 |
| 37 |  |  |  |  |  |  | 0 | 70 |  |  |  |  | 0 | 0 |
| 38 |  |  |  |  |  |  | 0 | 98 |  |  |  |  | 0 | 0 |
| 39 |  |  |  |  |  |  | 0 | 70 |  |  |  |  | 0 | 0 |
| 40 |  |  |  |  |  |  | 0 | 85 |  |  |  |  | 0 | 0 |
| 41 |  |  |  |  |  |  | 0 | 81 |  |  |  |  | 0 | 0 |
| Total | 25,939 |  | 37.6 | 642.2 | 468 | 4,000 | 638 | 770 | 1,139 | 239 | 19 | 57 | 1,796 | 30,407 |

Appendix A. 10. Weekly sockeye salmon stock proportions and harvest by stock in the Canadian commercial fishery in the lower Stikine River, 2012.


Appendix A. 11. Harvest by stock and week for sockeye salmon in the Canadian upper river commercial and Aboriginal fisheries in the Stikine River, 2012.


Appendix A. 12. Weekly harvest, CPUE, and migratory timing of Tahltan, Tuya, and mainstem sockeye salmon stocks in the Stikine test fishery, 2012.

|  |  | Proportions |  |  |  | Harvest |  |  |  | CPUE |  |  |  | Migratory Timing |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| SW | small eggs | AllTahltan | Tuya | Mainstem | EnhanceTahltan | AllTahltan | Tuya | Mainstem | EnhanceTahltan | AllTahltan | Tuya | Mainstem | Total | AllTahltan | Tuya | Mainstem |
| Drift gillnet |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 25 | 1.000 | 0.667 | 0.333 | 0.000 | 0.181 | 28 | 14 | 0 | 8 | 0.365 | 0.183 | 0.000 | 0.548 | 0.024 | 0.012 | 0.000 |
| 26 | 0.932 | 0.430 | 0.535 | 0.035 | 0.181 | 37 | 47 | 3 | 16 | 0.891 | 1.108 | 0.072 | 2.071 | 0.059 | 0.074 | 0.005 |
| 27 | 0.872 | 0.350 | 0.524 | 0.126 | 0.213 | 44 | 65 | 16 | 27 | 1.042 | 1.558 | 0.376 | 2.976 | 0.069 | 0.104 | 0.025 |
| 28 | 0.620 | 0.354 | 0.321 | 0.325 | 0.096 | 26 | 24 | 24 | 7 | 0.623 | 0.566 | 0.572 | 1.762 | 0.042 | 0.038 | 0.038 |
| 29 | 0.300 | 0.146 | 0.255 | 0.598 | 0.068 | 17 | 30 | 71 | 8 | 0.411 | 0.717 | 1.681 | 2.810 | 0.027 | 0.048 | 0.112 |
| 30 | 0.068 | 0.047 | 0.107 | 0.845 | 0.032 | 5 | 11 | 90 | 3 | 0.120 | 0.273 | 2.154 | 2.548 | 0.008 | 0.018 | 0.143 |
| 31 | 0.085 | 0.040 | 0.036 | 0.924 | 0.005 | 3 | 2 | 64 | 0 | 0.066 | 0.059 | 1.518 | 1.643 | 0.004 | 0.004 | 0.101 |
| 32 | 0.000 | 0.000 | 0.000 | 1.000 | 0.000 | 0 | 0 | 17 | 0 | 0.000 | 0.000 | 0.304 | 0.304 | 0.000 | 0.000 | 0.020 |
| 33 | 0.059 | 0.000 | 0.000 | 1.000 | 0.000 | 0 | 0 | 14 | 0 | 0.000 | 0.000 | 0.250 | 0.250 | 0.000 | 0.000 | 0.017 |
| 34 | 0.000 | 0.000 | 0.000 | 1.000 | 0.000 | 0 | 0 | 3 | 0 | 0.000 | 0.000 | 0.071 | 0.071 | 0.000 | 0.000 | 0.005 |
| 35 |  | 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 |
| Tota |  |  |  |  |  | 160 | 194 | 303 | 69 | 3.519 | 4.464 | 7.035 | 15.018 |  |  |  |
| Prop | rtion |  |  |  |  | 0.244 | 0.295 | 0.461 |  |  |  |  |  | 0.234 | 0.297 | 0.468 |
| Set gillnet |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 27 |  | 0.350 | 0.524 | 0.126 | 0.213 | 172 | 257 | 62 | 104 | 3.581 | 5.355 | 1.293 | 10.229 | 0.108 | 0.161 | 0.039 |
| 28 |  | 0.354 | 0.321 | 0.325 | 0.096 | 72 | 65 | 66 | 19 | 1.496 | 1.359 | 1.374 | 4.229 | 0.045 | 0.041 | 0.041 |
| 29 |  | 0.146 | 0.255 | 0.598 | 0.068 | 18 | 31 | 73 | 8 | 0.744 | 1.297 | 3.041 | 5.083 | 0.022 | 0.039 | 0.091 |
| 30 |  | 0.047 | 0.107 | 0.845 | 0.032 | 6 | 14 | 107 | 4 | 0.253 | 0.575 | 4.533 | 5.362 | 0.008 | 0.017 | 0.136 |
| 31 |  | 0.040 | 0.036 | 0.924 | 0.005 | 6 | 6 | 142 | 1 | 0.263 | 0.234 | 6.056 | 6.553 | 0.008 | 0.007 | 0.182 |
| 32 |  | 0.000 | 0.000 | 1.000 | 0.000 | 0 | 0 | 20 | 0 | 0.000 | 0.000 | 0.833 | 0.833 | 0.000 | 0.000 | 0.025 |
| 33 |  | 0.000 | 0.000 | 1.000 | 0.000 | 0 | 0 | 12 | 0 | 0.000 | 0.000 | 0.500 | 0.500 | 0.000 | 0.000 | 0.015 |
| 34 |  | 0.000 | 0.000 | 1.000 | 0.000 | 0 | 0 | 11 | 0 | 0.000 | 0.000 | 0.458 | 0.458 | 0.000 | 0.000 | 0.014 |
| 35 |  | 0.000 | 0.000 | 1.000 | 0.000 | 0 | 0 | 0 | 0 |  |  |  |  | 0.000 | 0.000 | 0.000 |
| Tota |  |  |  |  |  | 274 | 372 | 493 | 137 | 6.34 | 8.82 | 18.09 | 33.25 |  |  |  |
| Prop | rtion |  |  |  |  | 0.240 | 0.327 | 0.433 |  |  |  |  |  | 0.191 | 0.265 | 0.544 |
| Total Test Fishery Harvest |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 25 |  | 0.667 | 0.333 | 0.000 | 0.181 | 28 | 14 | 0 | 8 |  |  |  |  |  |  |  |
| 26 |  | 0.430 | 0.535 | 0.035 | 0.181 | 37 | 47 | 3 | 16 |  |  |  |  |  |  |  |
| 27 |  | 0.350 | 0.524 | 0.126 | 0.213 | 216 | 322 | 78 | 131 |  |  |  |  |  |  |  |
| 28 |  | 0.354 | 0.321 | 0.325 | 0.096 | 98 | 89 | 90 | 27 |  |  |  |  |  |  |  |
| 29 |  | 0.146 | 0.255 | 0.598 | 0.068 | 35 | 61 | 144 | 16 |  |  |  |  |  |  |  |
| 30 |  | 0.047 | 0.107 | 0.845 | 0.032 | 11 | 25 | 197 | 8 |  |  |  |  |  |  |  |
| 31 |  | 0.040 | 0.036 | 0.924 | 0.005 | 9 | 8 | 206 | 1 |  |  |  |  |  |  |  |
| 32 |  | 0.000 | 0.000 | 1.000 | 0.000 | 0 | 0 | 37 | 0 |  |  |  |  |  |  |  |
| 33 |  | 0.000 | 0.000 | 1.000 | 0.000 | 0 | 0 | 26 | 0 |  |  |  |  |  |  |  |
| 34 |  | 0.000 | 0.000 | 1.000 | 0.000 | 0 | 0 | 14 | 0 |  |  |  |  |  |  |  |
| 35 |  | 0.000 | 0.000 | 1.000 | 0.000 | 0 | 0 | 1 | 0 |  |  |  |  |  |  |  |
| Tota |  |  |  |  |  | 434 | 566 | 796 | 206 |  |  |  |  |  |  |  |
| Prop | rtion |  |  |  |  | 0.242 | 0.315 | 0.443 | 0.115 |  |  |  |  |  |  |  |
| AllTahltan harvest |  |  | EnhanceTahltan WildTahltan |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 25 |  | 0.667 |  | 0.181 | 0.486 |  |  |  |  |  |  |  |  |  |  |  |
| 26 |  | 0.430 |  | 0.181 | 0.250 |  |  |  |  |  |  |  |  |  |  |  |
| 27 |  | 0.350 |  | 0.213 | 0.137 |  |  |  |  |  |  |  |  |  |  |  |
| 28 |  | 0.354 |  | 0.096 | 0.258 |  |  |  |  |  |  |  |  |  |  |  |
| 29 |  | 0.146 |  | 0.068 | 0.078 |  |  |  |  |  |  |  |  |  |  |  |
| 30 |  | 0.047 |  | 0.032 | 0.015 |  |  |  |  |  |  |  |  |  |  |  |
| 31 |  | 0.040 |  | 0.005 | 0.035 |  |  |  |  |  |  |  |  |  |  |  |
| 32 |  | 0.000 |  | 0.000 | 0.000 |  |  |  |  |  |  |  |  |  |  |  |
| 33 |  | 0.000 |  | 0.000 | 0.000 |  |  |  |  |  |  |  |  |  |  |  |
| 34 |  | 0.000 |  | 0.000 | 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 2012.

| Date | Harvest <br> Total | Proportions |  |  |  | Stock specific harvest |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | All Tahltan | Tuya | Mainstem | EnhanceTahltan | All Tahltan | Tuya | Mainstem | EnhanceTahltan |
| 7/21 | 297 | 0.135 | 0.865 | 0.000 | 0.038 | 40 | 257 | 0 | 11 |
| 7/22 | 321 | 0.120 | 0.880 | 0.000 | 0.060 | 39 | 282 | 0 | 19 |
| 7/23 | 313 | 0.064 | 0.894 | 0.043 | 0.043 | 20 | 280 | 13 | 13 |
| 7/24 | 236 | 0.046 | 0.915 | 0.039 | 0.021 | 11 | 216 | 9 | 5 |
| 7/25 | 196 | 0.064 | 0.936 | 0.000 | 0.000 | 13 | 183 | 0 | 0 |
| 7/26 | 220 | 0.168 | 0.813 | 0.020 | 0.125 | 37 | 179 | 4 | 28 |
| 7/27 | 258 | 0.163 | 0.837 | 0.000 | 0.000 | 42 | 216 | 0 | 0 |
| 7/28 | 242 | 0.002 | 0.898 | 0.100 | 0.020 | 0 | 217 | 24 | 5 |
| 7/29 | 223 | 0.040 | 0.920 | 0.040 | 0.020 | 9 | 205 | 9 | 4 |
| Total | 2,306 | 0.091 | 0.883 | 0.026 | 0.037 | 210 | 2,036 | 60 | 86 |

Appendix A. 14. Weekly coho salmon harvest in the Alaskan District 106 and 108 fisheries, 2012.

| SW | D106 |  |  |  |  | D108 |  |  | Subsistence harvest |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Hatchery | Wild | Total | 106-41/42 | 106-30 | Hatchery | Wild | Total |  |
| 25 | 2,761 | 450 | 3,211 | 2,320 | 891 |  | 173 | 173 | 0 |
| 26 | 3,329 | 1,313 | 4,642 | 3,036 | 1,606 |  | 101 | 101 | 0 |
| 27 | 3,876 | 3,552 | 7,428 | 5,094 | 2,334 | 29 | 277 | 306 | 0 |
| 28 | 3,577 | 1,579 | 5,156 | 2,429 | 2,727 | 336 | 662 | 998 | 0 |
| 29 | 5,067 | 1,801 | 6,868 | 2,009 | 4,859 | 244 | 220 | 464 | 0 |
| 30 | 5,531 | 7,053 | 12,584 | 3,748 | 8,836 | 163 | 229 | 392 | 0 |
| 31 | 2,719 | 4,454 | 7,173 | 1,968 | 5,205 | 49 | 637 | 686 | 0 |
| 32 | 1,620 | 3,812 | 5,432 | 2,916 | 2,516 | 141 | 774 | 915 | 0 |
| 33 | 1,052 | 5,855 | 6,907 | 3,540 | 3,367 | 201 | 1,509 | 1,710 | 0 |
| 34 | 1,274 | 3,064 | 4,338 | 1,443 | 2,895 | 62 | 1,779 | 1,841 | 0 |
| 35 | 3,128 | 4,937 | 8,065 | 2,974 | 5,091 | 286 | 3,051 | 3,337 | 25 |
| 36 | 11,223 | 6,886 | 18,109 | 9,790 | 8,319 | 572 | 2,676 | 3,248 | 10 |
| 37 | 7,121 | 4,665 | 11,786 | 8,161 | 3,625 | 293 | 1,809 | 2,102 | 5 |
| 38 | 11,893 | 4,999 | 16,892 | 6,176 | 10,716 | 2,315 | 1,202 | 3,517 | 10 |
| 39 | 2,048 | 779 | 2,827 | 2,053 | 774 | 117 | 193 | 310 | 10 |
| Total | 66,219 | 55,199 | 121,418 | 57,657 | 63,761 | 4,808 | 15,292 | 20,100 | 60 |

Appendix A. 15. Weekly harvest of coho salmon in the Canadian lower river commercial fishery and test fisheries 2012.

|  |  | Test |  |  |
| :---: | :---: | :---: | :---: | :---: |
| SW | LRCF | Drift | Set | Additional |
| Total |  |  |  |  |
| 19 | 0 |  |  | 0 |
| 20 | 0 |  |  | 0 |
| 21 | 0 |  |  | 0 |
| 22 | 0 |  |  | 0 |
| 23 | 0 |  |  | 0 |
| 24 | 0 |  |  | 0 |
| 25 | 0 | 0 |  | 0 |
| 26 | 0 | 0 |  | 0 |
| 27 | 0 | 0 | 0 | 0 |
| 28 | 0 | 0 | 0 | 0 |
| 29 | 1 | 0 | 1 | 2 |
| 30 | 0 | 0 | 1 | 1 |
| 31 | 27 | 0 | 0 | 27 |
| 32 | 54 | 10 | 4 | 68 |
| 33 | 199 | 16 | 8 | 223 |
| 34 | 159 | 9 | 29 | 197 |
| 35 | 2,171 | 18 |  | 2,189 |
| 36 | 3,577 | 56 |  | 3,633 |
| 37 |  | 40 |  | 40 |
| 38 |  | 129 |  | 129 |
| 39 |  | 57 |  | 57 |
| 40 |  | 49 |  | 49 |
| 41 |  | 9 |  | 9 |
| 42 |  |  |  | 0 |
| Total | 6,188 | 393 | 43 | 0 |

Appendix A. 16. Weekly salmon effort in the Alaskan District 106 and 108 fisheries, 2012.

|  |  | D106 |  |  | 106-41/42 |  |  | 106-30 |  |  | D108 |  |  | Subsistence Permits |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| SW | Start <br> Date | Permits | Days | Permit <br> Days | Permits | Days | Permit <br> Days | Permits | Days | Permit <br> Days | Permits | Days | Permit <br> Days |  |
| 25 | 16-Jun | 36 | 2.0 | 72 | 28 | 1.0 | 28 | 8 | 1.0 | 8 | 51 | 2.0 | 102 |  |
| 26 | 23-Jun | 41 | 3.0 | 123 | 27 | 1.0 | 27 | 15 | 1.0 | 15 | 44 | 3.0 | 132 |  |
| 27 | 30-Jun | 35 | 4.0 | 140 | 20 | 1.0 | 20 | 15 | 1.0 | 15 | 25 | 4.0 | 100 |  |
| 28 | 7-Jul | 45 | 3.0 | 135 | 28 | 1.0 | 28 | 17 | 1.0 | 17 | 28 | 3.0 | 84 |  |
| 29 | 14-Jul | 51 | 3.0 | 153 | 27 | 1.0 | 27 | 26 | 1.0 | 26 | 38 | 3.0 | 114 |  |
| 30 | 21-Jul | 63 | 3.0 | 189 | 28 | 1.0 | 28 | 36 | 1.0 | 36 | 59 | 3.0 | 177 |  |
| 31 | 28-Jul | 63 | 4.0 | 252 | 29 | 2.0 | 58 | 35 | 2.0 | 70 | 65 | 4.0 | 260 |  |
| 32 | 4-Aug | 69 | 4.0 | 276 | 25 | 2.0 | 50 | 45 | 2.0 | 90 | 55 | 4.0 | 220 |  |
| 33 | 11-Aug | 60 | 5.0 | 300 | 30 | 2.0 | 60 | 30 | 2.0 | 60 | 53 | 5.0 | 265 |  |
| 34 | 18-Aug | 63 | 5.0 | 315 | 38 | 2.0 | 76 | 27 | 2.0 | 54 | 49 | 5.0 | 245 |  |
| 35 | 25-Aug | 59 | 5.0 | 295 | 37 | 2.0 | 74 | 31 | 0.0 | 0 | 42 | 5.0 | 210 |  |
| 36 | 1-Sep | 70 | 4.0 | 280 | 57 | 0.0 | 0 | 27 | 1.0 | 27 | 43 | 4.0 | 172 |  |
| 37 | 8-Sep | 86 | 4.0 | 344 | 54 | 0.0 | 0 | 37 | 1.0 | 37 | 30 | 4.0 | 120 |  |
| 38 | 15-Sep | 61 | 4.0 | 244 | 39 | 0.0 | 0 | 29 | 1.0 | 29 | 26 | 4.0 | 104 |  |
| 39 | 22-Sep | 32 | 4.0 | 128 | 20 | 0.0 | 0 | 13 | 1.0 | 13 | 5 | 4.0 | 20 |  |
| 40 | 29-Sep | 9 | 3.0 | 27 | 9 | 0.0 | 0 |  |  |  | 3 | 3.0 | 9 |  |
| 41 | 6-Oct | 2 | 2.0 | 4 |  |  |  |  |  |  |  |  |  |  |
| Total |  |  | 62 | 3,277 |  | 16 | 476 |  | 18 | 497 |  | 60 | 2,334 | 129 |

Appendix A. 17. Weekly salmon effort in the Canadian fisheries in the Stikine River, 2012.

| SW | Start <br> Date | LRCF |  |  | URCF |  |  | Telegraph Aboriginal |  |  | Test |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Permits | DaysPermit <br> Days |  | Permits | Days | Permit Days | Permits | Days | Permit Days \# | Drifts | Set hour | Commercial License |  |
|  |  |  |  |  | Permits |  |  |  |  |  |  |  | Days |
| 19 | 5-May |  |  |  |  |  |  |  |  |  |  |  |  | 18.00 | 2.0 |
| 20 | 12-May |  |  |  |  |  |  |  |  |  |  |  | 19.00 | 2.0 |
| 21 | 19-May |  |  |  |  |  |  | 6 | 2 | 12 |  |  | 19.00 | 1.0 |
| 22 | 26-May |  |  |  |  |  |  | 7 | 0 | 0 |  |  | 18.50 | 2.0 |
| 23 | 2-Jun |  |  |  |  |  |  | 7 | 1 | 7 |  |  | 18.00 | 1.0 |
| 24 | 9-Jun |  |  |  |  |  |  | 7 | 4 | 28 |  |  | 19.00 | 3.0 |
| 25 | 16-Jun | 19.00 | 1.0 | 19 |  |  |  | 7 | 6 | 42 |  |  |  |  |
| 26 | 23-Jun | 18.00 | 3.0 | 54 |  |  |  | 7 | 4 | 28 |  |  |  |  |
| 27 | 30-Jun | 19.00 | 2.0 | 38 |  |  |  | 7 | 8 | 56 |  |  |  |  |
| 28 | 7-Jul | 19.00 | 3.0 | 57 |  |  |  | 7.0 | 27.0 | 189 | 28 | 48.0 |  |  |
| 29 | 14-Jul | 19.00 | 2.0 | 38 |  |  |  | 7.0 | 22.0 | 154 | 42 | 48.0 |  |  |
| 30 | 21-Jul | 19.00 | 2.3 | 43 | 1.0 | 2.0 | 2 | 7.0 | 6.0 | 42 | 42 | 48.0 |  |  |
| 31 | 28-Jul | 14.33 | 2.3 | 33 | 1.0 | 2.0 | 2 | 7.0 | 4.0 | 28 | 42 | 48.0 |  |  |
| 32 | 4-Aug | 15.00 | 2.0 | 30 | 1.0 | 2.0 | 2 | 5.0 | 1.0 | 5 | 42 | 48.0 |  |  |
| 33 | 11-Aug | 13.00 | 1.0 | 13 |  |  |  | 3.0 | 0.0 | 0 | 42 | 72.0 |  |  |
| 34 | 18-Aug | 10.00 | 1.0 | 10 |  |  |  |  |  |  | 42 | 72.0 |  |  |
| 35 | 25-Aug | 15.00 | 4.0 | 60 |  |  |  |  |  |  | 14 | 24.0 |  |  |
| 36 | 1-Sep | 15.00 | 4.0 | 60 |  |  |  |  |  |  |  |  |  |  |
| 37 | 8-Sep |  |  | 0 |  |  |  |  |  |  |  |  |  |  |
| 38 | 15-Sep |  |  | 0 |  |  |  |  |  |  |  |  |  |  |
| 39 | 22-Sep |  |  | 0 |  |  |  |  |  |  |  |  |  |  |
| 40 | 29-Sep |  |  | 0 |  |  |  |  |  |  |  |  |  |  |
| 41 |  |  |  | 0 |  |  |  |  |  |  |  |  |  |  |
| 42 |  |  |  | 0 |  |  |  |  |  |  |  |  |  |  |
| Total |  |  | 27.6 | 455.2 |  | 6.0 | 6.0 |  | 85.0 | 591.0 | 294.0 | 408.0 | 111.5 | 11.0 |

Appendix A. 18. Tuya assessment fishery, 2012.

| Date |  |
| :--- | :--- |
| $7 / 2 t a l$ nets |  |
| $7 / 21$ | 8 |
| $7 / 22$ | 8 |
| $7 / 23$ | 8 |
| $7 / 24$ | 8 |
| $7 / 25$ | 8 |
| $7 / 26$ | 8 |
| $7 / 27$ | 8 |
| $7 / 28$ | 8 |
| $7 / 29$ | 8 |
| $7 / 30$ | 8 |
| Total | 80 |

Appendix A. 19. Daily counts of adult sockeye salmon passing through Tahltan Lake weir, 2012


[^0]Appendix A. 20. Daily counts of sockeye salmon smolt migrating through Tahltan Lake smolt weir, 2012.

| Date | Count | Cumulative |  | Date | Count | Cumulative |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Count | Percent |  |  | Count | Percent |
| 10-May | Installed |  | 0.00\% | 6-Jun | 349 | 625,821 | 97.87\% |
| 11-May | 0 | 0 | 0.00\% | 7-Jun | 196 | 626,017 | 97.90\% |
| 12-May | 0 | 0 | 0.00\% | 8-Jun | 5,137 | 631,154 | 98.70\% |
| 13-May | 2 | 2 | 0.00\% | 9-Jun | 5,473 | 636,627 | 99.55\% |
| 14-May | 25 | 27 | 0.00\% | 10-Jun | 928 | 637,555 | 99.70\% |
| 15-May | 1,532 | 1,559 | 0.24\% | 11-Jun | 683 | 638,238 | 99.81\% |
| 16-May | 1,724 | 3,283 | 0.51\% | 12-Jun | 556 | 638,794 | 99.89\% |
| 17-May | 726 | 4,009 | 0.63\% | 13-Jun | 533 | 639,327 | 99.98\% |
| 18-May | 1,011 | 5,020 | 0.79\% | 14-Jun | 146 | 639,473 | 100.00\% |
| 19-May | 81,319 | 86,339 | 13.50\% |  |  |  |  |
| 20-May | 1,432 | 87,771 | 13.73\% |  |  |  |  |
| 21-May | 660 | 88,431 | 13.83\% |  |  |  |  |
| 22-May | 1,552 | 89,983 | 14.07\% |  |  |  |  |
| 23-May | 3,453 | 93,436 | 14.61\% |  |  |  |  |
| 24-May | 88,987 | 182,423 | 28.53\% |  |  |  |  |
| 25-May | 174,485 | 356,908 | 55.81\% |  |  |  |  |
| 26-May | 57,642 | 414,550 | 64.83\% |  |  |  |  |
| 27-May | 27,565 | 442,115 | 69.14\% |  |  |  |  |
| 28-May | 29,203 | 471,318 | 73.70\% |  |  |  |  |
| 29-May | 19,594 | 490,912 | 76.77\% |  |  |  |  |
| 30-May | 23,458 | 514,370 | 80.44\% |  |  |  |  |
| 31-May | 3,675 | 518,045 | 81.01\% |  |  |  |  |
| 1-Jun | 1,214 | 519,259 | 81.20\% |  |  |  |  |
| 2-Jun | 96,541 | 615,800 | 96.30\% |  |  |  |  |
| 3-Jun | 6,974 | 622,774 | 97.39\% |  |  |  |  |
| 4-Jun | 758 | 623,532 | 97.51\% | Wild | 324,876 |  |  |
| 5-Jun | 1,940 | 625,472 | 97.81\% | Hatchery | 314,597 |  |  |
| Total |  |  |  |  | 639,473 |  |  |

Appendix A. 21. Daily counts of adult Chinook salmon passing through Little Tahltan weir, 2012.

| Date | Large Chinook |  |  | nonlarge Chinook |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Count | Cumulative |  | Count | Cumulative |  |
|  |  | Count | Percent |  | Count | Percent |
| 27-Jun | Installed |  |  |  |  |  |
| 28-Jun | 0 | 0 | 0.00\% | 0 | 0 | 0.00\% |
| 29-Jun | 0 | 0 | 0.00\% | 0 | 0 | 0.00\% |
| 30-Jun | 0 | 0 | 0.00\% | 0 | 0 | 0.00\% |
| 1-Jul | 0 | 0 | 0.00\% | 0 | 0 | 0.00\% |
| 2-Jul | 0 | 0 | 0.00\% | 0 | 0 | 0.00\% |
| 3-Jul | 0 | 0 | 0.00\% | 0 | 0 | 0.00\% |
| 4-Jul | 0 | 0 | 0.00\% | 0 | 0 | 0.00\% |
| 5-Jul | 0 | 0 | 0.00\% | 0 | 0 | 0.00\% |
| 6-Jul | 0 | 0 | 0.00\% | 0 | 0 | 0.00\% |
| 7-Jul | 3 | 3 | 0.42\% | 0 | 0 | 0.00\% |
| 8-Jul | 4 | 7 | 0.97\% | 0 | 0 | 0.00\% |
| 9-Jul | 5 | 12 | 1.67\% | 0 | 0 | 0.00\% |
| 10-Jul | 28 | 40 | 5.56\% | 0 | 0 | 0.00\% |
| 11-Jul | 16 | 56 | 7.78\% | 3 | 3 | 5.88\% |
| 12-Jul | 14 | 70 | 9.72\% | 6 | 9 | 17.65\% |
| 13-Jul | 27 | 97 | 13.47\% | 5 | 14 | 27.45\% |
| 14-Jul | 31 | 128 | 17.78\% | 2 | 16 | 31.37\% |
| 15-Jul | 12 | 140 | 19.44\% | 3 | 19 | 37.25\% |
| 16-Jul | 42 | 182 | 25.28\% | 1 | 20 | 39.22\% |
| 17-Jul | 22 | 204 | 28.33\% | 5 | 25 | 49.02\% |
| 18-Jul | 20 | 224 | 31.11\% | 3 | 28 | 54.90\% |
| 19-Jul | 10 | 234 | 32.50\% | 5 | 33 | 64.71\% |
| 20-Jul | 12 | 246 | 34.17\% | 1 | 34 | 66.67\% |
| 21-Jul | 31 | 277 | 38.47\% | 2 | 36 | 70.59\% |
| 22-Jul | 33 | 310 | 43.06\% | 2 | 38 | 74.51\% |
| 23-Jul | 17 | 327 | 45.42\% | 2 | 40 | 78.43\% |
| 24-Jul | 8 | 335 | 46.53\% | 3 | 43 | 84.31\% |
| 25-Jul | 15 | 350 | 48.61\% | 1 | 44 | 86.27\% |
| 26-Jul | 44 | 394 | 54.72\% | 1 | 45 | 88.24\% |
| 27-Jul | 60 | 454 | 63.06\% | 2 | 47 | 92.16\% |
| 28-Jul | 16 | 470 | 65.28\% | 0 | 47 | 92.16\% |
| 29-Jul | 38 | 508 | 70.56\% | 1 | 48 | 94.12\% |
| 30-Jul | 19 | 527 | 73.19\% | 0 | 48 | 94.12\% |
| 31-Jul | 8 | 535 | 74.31\% | 0 | 48 | 94.12\% |
| 1-Aug | 17 | 552 | 76.67\% | 1 | 49 | 96.08\% |
| 2-Aug | 16 | 568 | 78.89\% | 1 | 50 | 98.04\% |
| 3-Aug | 28 | 596 | 82.78\% | 0 | 50 | 98.04\% |
| 4-Aug | 34 | 630 | 87.50\% | 1 | 51 | 100.00\% |
| 5-Aug | 21 | 651 | 90.42\% | 0 | 51 | 100.00\% |
| 6-Aug | 12 | 663 | 92.08\% | 0 | 51 | 100.00\% |
| 7-Aug | 23 | 686 | 95.28\% | 0 | 51 | 100.00\% |
| 8-Aug | 20 | 706 | 98.06\% | 0 | 51 | 100.00\% |
| 9-Aug | 14 | 720 | 100.00\% | 0 | 51 | 100.00\% |
| 10-Aug | weir out |  |  |  |  |  |
| Total Counted |  | 720 |  | 51 |  |  |
| Broodstock |  | 0 |  | 0 |  |  |
| Escapement |  | 720 |  | 51 |  |  |

Appendix B. 1. Historic salmon harvest and effort in the Alaskan District 106 commercial gillnet fishery, 1960-2012.

| Year | Harvest |  |  |  |  | Boats | $\begin{aligned} & \text { Days } \\ & \text { Open } \end{aligned}$ | Effort <br> Permit <br> Days |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Chinook | Sockeye | Coho | Pink | Chum |  |  |  |
| 1960 | 46 | 10,354 | 336 | 1,246 | 502 |  |  |  |
| 1961 | 416 | 20,614 | 14,934 | 124,236 | 64,479 |  |  |  |
| 1962 | 1,308 | 47,033 | 42,276 | 256,620 | 59,119 |  |  |  |
| 1963 | 1,560 | 80,767 | 52,103 | 514,596 | 90,103 |  |  |  |
| 1964 | 2,082 | 76,541 | 64,654 | 443,086 | 44,218 |  |  |  |
| 1965 | 1,802 | 87,749 | 75,728 | 625,848 | 27,658 |  |  |  |
| 1966 | 1,665 | 89,847 | 62,823 | 400,932 | 40,756 |  |  |  |
| 1967 | 1,318 | 86,385 | 17,670 | 91,609 | 26,370 |  |  |  |
| 1968 | 1,316 | 64,671 | 67,151 | 169,107 | 61,366 |  |  |  |
| 1969 | 877 | 70,484 | 10,305 | 198,785 | 10,930 | 613 | 31.0 | 2,111 |
| 1970 | 782 | 42,809 | 35,188 | 95,173 | 32,245 | 586 | 41.0 | 1,863 |
| 1971 | 1,336 | 53,262 | 48,085 | 528,737 | 37,682 | 897 | 50.0 | 2,773 |
| 1972 | 2,548 | 101,958 | 92,283 | 89,510 | 72,389 | 1,090 | 42.0 | 3,320 |
| 1973 | 1,961 | 72,025 | 38,447 | 304,536 | 87,704 | 1,244 | 26.0 | 3,299 |
| 1974 | 1,929 | 57,498 | 45,595 | 104,596 | 50,402 | 1,216 | 28.0 | 2,178 |
| 1975 | 2,587 | 32,099 | 30,962 | 203,031 | 24,047 | 856 | 17.0 | 1,648 |
| 1976 | 386 | 15,493 | 19,126 | 139,641 | 6,868 | 375 | 22.0 | 827 |
| 1977 | 671 | 67,394 | 8,389 | 422,955 | 13,311 | 449 | 28.0 | 1,381 |
| 1978 | 2,682 | 41,574 | 55,578 | 224,715 | 16,545 | 791 | 26.5 | 1,509 |
| 1979 | 2,720 | 66,373 | 31,454 | 648,212 | 35,507 | 1,162 | 25.0 | 2,702 |
| 1980 | 580 | 107,422 | 16,666 | 45,662 | 26,291 | 591 | 25.0 | 1,324 |
| 1981 | 1,565 | 182,001 | 22,614 | 437,573 | 34,296 | 1,160 | 26.0 | 2,925 |
| 1982 | 1,648 | 193,801 | 31,584 | 25,533 | 18,646 | 831 | 23.0 | 1,699 |
| 1983 | 567 | 48,842 | 62,442 | 208,290 | 20,144 | 728 | 32.0 | 1,452 |
| 1984 | 892 | 91,653 | 41,359 | 343,255 | 70,303 | 763 | 32.0 | 1,814 |
| 1985 | 1,687 | 264,987 | 91,188 | 584,953 | 69,673 | 1,196 | 32.0 | 2,672 |
| 1986 | 1,704 | 145,709 | 194,912 | 308,484 | 82,289 | 1,530 | 32.0 | 3,509 |
| 1987 | 836 | 136,427 | 34,534 | 243,482 | 42,025 | 982 | 20.0 | 1,766 |
| 1988 | 1,104 | 92,529 | 13,103 | 69,559 | 69,620 | 830 | 19.0 | 1,494 |
| 1989 | 1,544 | 192,734 | 92,385 | 1,101,194 | 67,351 | 1,253 | 34.0 | 3,221 |
| 1990 | 2,108 | 185,805 | 164,235 | 319,186 | 73,232 | 1,476 | 34.0 | 3,501 |
| 1991 | 2,055 | 144,104 | 198,160 | 133,566 | 124,630 | 1,554 | 39.0 | 3,620 |
| 1992 | 1,355 | 203,155 | 298,935 | 94,248 | 140,468 | 1,543 | 40.0 | 4,229 |
| 1993 | 992 | 205,955 | 231,038 | 537,960 | 134,601 | 1,772 | 38.0 | 4,352 |
| 1994 | 754 | 211,048 | 267,862 | 179,994 | 176,026 | 1,593 | 43.0 | 4,467 |
| 1995 | 951 | 207,298 | 170,561 | 448,163 | 300,078 | 1,517 | 34.0 | 3,656 |
| 1996 | 644 | 311,100 | 223,640 | 188,035 | 283,290 | 1,661 | 46.0 | 5,289 |
| 1997 | 1,075 | 168,518 | 77,550 | 789,051 | 186,456 | 1,357 | 39.0 | 3,667 |
| 1998 | 518 | 113,435 | 273,197 | 502,655 | 332,022 | 1,586 | 43.0 | 4,397 |
| 1999 | 518 | 104,835 | 203,301 | 491,179 | 448,409 | 1,609 | 49.0 | 4,854 |
| 2000 | 1,220 | 90,076 | 96,207 | 156,619 | 199,836 | 1,016 | 33.0 | 2,408 |
| 2001 | 1,138 | 164,013 | 188,465 | 825,447 | 283,462 | 1,291 | 50.0 | 3,853 |
| 2002 | 446 | 56,135 | 226,560 | 82,951 | 112,541 | 1,009 | 47.0 | 2,683 |
| 2003 | 422 | 116,904 | 212,057 | 470,697 | 300,253 | 1,095 | 59.0 | 3,803 |
| 2004 | 2,735 | 116,259 | 138,631 | 245,237 | 110,574 | 848 | 55.0 | 2,735 |
| 2005 | 1,572 | 110,192 | 114,440 | 461,187 | 198,564 | 947 | 53.0 | 2,963 |
| 2006 | 1,948 | 91,980 | 69,015 | 149,907 | 268,436 | 728 | 45.0 | 2,035 |
| 2007 | 2,144 | 92,481 | 80,573 | 383,355 | 297,998 | 913 | 49.0 | 2,740 |
| 2008 | 1,619 | 30,533 | 116,074 | 90,217 | 102,156 | 734 | 46.0 | 2,195 |
| 2009 | 2,138 | 111,984 | 144,569 | 143,589 | 287,707 | 1,122 | 45.0 | 3,252 |
| 2010 | 2,473 | 112,450 | 225,550 | 309,795 | 97,948 | 1,187 | 47.0 | 3,161 |
| 2011 | 3,008 | 146,069 | 117,860 | 337,169 | 158,096 | 1,002 | 41.0 | 2,647 |
| 2012 | 1,853 | 45,466 | 121,418 | 129,646 | 104,307 | 718 | 40.0 | 1,929 |
| 60-11 | 1,422 | 110,295 | 101,007 | 313,372 | 113,839 |  | 36.9 | 2,837 |
| 02-11 | 1,851 | 98,499 | 144,533 | 267,410 | 193,427 | 959 | 48.7 | 2,822 |

Appendix B. 2 Historic salmon harvest and effort in the Alaskan District 108 commercial gillnet fishery, 1962-2012.

| Year | Harvest |  |  |  |  | Boats | $\begin{aligned} & \text { Days } \\ & \text { Open } \\ & \hline \end{aligned}$ | $\begin{gathered} \hline \text { Effort } \\ \text { Permit } \\ \text { Days } \\ \hline \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 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 | 359 | 55 | 1,084 |
| 1970 | 3,199 | 15,121 | 18,529 | 20,523 | 12,304 | 418 | 54 | 1,222 |
| 1971 | 3,717 | 18,143 | 14,876 | 22,216 | 4,665 | 363 | 57 | 1,061 |
| 1972 | 9,342 | 51,725 | 38,440 | 17,197 | 17,442 | 695 | 64 | 2,094 |
| 1973 | 9,254 | 21,393 | 5,837 | 6,585 | 6,680 | 584 | 39 | 1,519 |
| 1974 | 8,199 | 2,428 | 16,021 | 4,188 | 2,107 | 564 | 31 | 1,240 |
| 1975 | 1,529 | 0 | 0 | 0 | 1 | 172 | 8 | 257 |
| 1976 | 1,123 | 18 | 6,074 | 722 | 124 | 210 | 20 | 372 |
| 1977 | 1,443 | 48,385 | 14,424 | 16,318 | 4,233 | 321 | 23 | 742 |
| 1978 | 531 | 56 | 32,650 | 1,157 | 1,001 | 255 | 12 | 565 |
| 1979 | 91 | 2,158 | 234 | 13,478 | 1,064 | 37 | 5 | 94 |
| 1980 | 631 | 14,053 | 2,946 | 7,224 | 6,910 | 161 | 22 | 327 |
| 1981 | 283 | 8,833 | 1,403 | 1,466 | 3,594 | 110 | 11 | 217 |
| 1982 | 1,052 | 7,136 | 20,003 | 16,174 | 734 | 250 | 21 | 494 |
| 1983 | 47 | 178 | 15,369 | 4,171 | 675 | 101 | 17 | 260 |
| 1984 | 14 | 1,290 | 5,141 | 4,960 | 1,892 | 28 | 16 | 88 |
| 1985 | 20 | 1,060 | 1,926 | 5,325 | 1,892 | 25 | 13 | 45 |
| 1986 | 102 | 4,185 | 7,439 | 4,901 | 5,928 | 83 | 25 | 216 |
| 1987 | 149 | 1,620 | 1,015 | 3,331 | 949 | 45 | 13 | 81 |
| 1988 | 206 | 1,246 | 12 | 144 | 3,109 | 30 | 8 | 60 |
| 1989 | 310 | 10,083 | 4,261 | 27,640 | 3,375 | 90 | 29 | 223 |
| 1990 | 557 | 11,574 | 8,218 | 13,822 | 9,382 | 157 | 34 | 359 |
| 1991 | 1,366 | 17,987 | 15,629 | 6,406 | 5,977 | 264 | 49 | 846 |
| 1992 | 967 | 52,717 | 22,127 | 66,742 | 15,458 | 445 | 51 | 1,812 |
| 1993 | 1,628 | 76,874 | 14,307 | 39,661 | 22,504 | 556 | 48 | 2,220 |
| 1994 | 1,996 | 97,224 | 44,891 | 35,405 | 27,658 | 721 | 58 | 3,011 |
| 1995 | 1,702 | 76,756 | 17,834 | 37,788 | 54,296 | 593 | 50 | 2,581 |
| 1996 | 1,717 | 154,150 | 19,059 | 37,651 | 135,623 | 694 | 57 | 3,228 |
| 1997 | 2,566 | 93,039 | 2,140 | 65,745 | 38,913 | 582 | 44 | 2,537 |
| 1998 | 460 | 22,031 | 19,206 | 39,246 | 41,057 | 355 | 45 | 1,073 |
| 1999 | 1,049 | 36,601 | 28,437 | 48,552 | 117,196 | 630 | 54 | 2,209 |
| 2000 | 1,671 | 15,833 | 5,651 | 9,497 | 40,337 | 265 | 35 | 714 |
| 2001 | 7 | 610 | 10,731 | 11,012 | 5,397 | 112 | 34 | 377 |
| 2002 | 25 | 208 | 21,131 | 4,578 | 2,017 | 100 | 30 | 323 |
| 2003 | 312 | 42,158 | 38,795 | 76,113 | 51,701 | 364 | 56 | 1,454 |
| 2004 | 7,410 | 103,392 | 26,617 | 20,439 | 37,996 | 529 | 53 | 2,058 |
| 2005 | 26,970 | 99,465 | 42,203 | 106,395 | 150,121 | 1,318 | 78 | 4,591 |
| 2006 | 30,033 | 61,298 | 34,430 | 56,810 | 343,827 | 1,374 | 64 | 4,032 |
| 2007 | 17,463 | 70,580 | 19,880 | 39,872 | 177,573 | 1,120 | 56 | 2,722 |
| 2008 | 14,599 | 35,679 | 34,479 | 18,105 | 81,876 | 1,207 | 58 | 3,083 |
| 2009 | 2,830 | 36,680 | 30,860 | 27,010 | 190,800 | 693 | 47 | 2,287 |
| 2010 | 2,359 | 32,737 | 42,772 | 58,610 | 51,005 | 541 | 45 | 1,557 |
| 2011 | 5,321 | 51,478 | 20,720 | 65,022 | 142,526 | 628 | 41 | 1,806 |
| 2012 | 8,027 | 21,997 | 20,100 | 16,374 | 240,569 | 651 | 43 | 1,642 |
| 60-11 | 3,857 | 31,081 | 16,908 | 27,284 | 37,775 |  | 37.9 | 1,329 |
| 02-11 | 10,732 | 53,368 | 31,189 | 47,295 | 122,944 | 787 | 52.8 | 2,391 |

Appendix B. 3. Annual harvest of large Stikine Chinook salmon in the U.S. gillnet, troll, recreational, and subsistence and estimates of Stikine River bound Chinook salmon in District 108, 2005-2012.
GSI used for sport and gillnet. Troll is based on CWT.

|  |  | 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 |

Appendix B. 4. Chinook salmon harvest in the Alaskan District 106 and 108 test fisheries, 1984-2012.
Table only includes years when test fisheries were operated

|  | Large Chinook |  |  |  |
| :--- | :---: | :---: | :---: | :---: |
| Year | Total 106 | $106-41 / 42$ | $106-30$ | 108 |
| 1984 | 13 | 13 |  | 37 |
| 1985 | 16 | 16 |  | 33 |
| 1986 | 47 | 23 | 24 | 79 |
| 1987 | 25 | 24 | 1 | 30 |
| 1988 | 21 | 11 | 10 | 65 |
| 1989 | 15 | 11 | 4 | 15 |
| 1990 | 13 | 13 |  | 19 |
| 1991 |  |  |  | 21 |
| 1992 |  |  |  | 26 |
| 1993 |  |  |  | 30 |
| 1994 | 0 | 0 |  |  |
| --- |  |  |  | 0 |
| 1998 |  |  |  | 29 |
| 1999 |  |  |  | 21 |
| 2000 |  |  |  | 113 |
| -- |  |  |  |  |
| 2009 |  |  |  |  |

Appendix B. 5. Chinook salmon harvest in the Canadian commercial and recreational fisheries in the Stikine River, 1979-2012.

| Year | LRCF |  |  |  |  |  | URCF |  | Telegraph Aboriginal |  | Tahltan sport fishery |  | Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Large |  | Non-Large |  | Large | Nonlarge | Large | Nonlarge | Large | Nonlarge | Large | Nonlarge |
|  | Large | Nonlarge | Released | morts | Released | morts |  |  |  |  |  |  |  |  |
| 1972 |  |  |  |  |  |  |  |  |  |  |  |  | 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 |
| Averages |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 85-11 | 3,020 | 585 |  |  |  |  | 42 | 16 | 808 | 226 | 145 |  | 4,023 | 851 |
| 02-11 | 5,949 | 1,092 |  |  |  |  | 15 | 14 | 711 | 242 | 101 |  | 6,798 | 1,377 |

Appendix B. 6. Chinook salmon harvest in inriver test fisheries in the Stikine River, 1985-2012.

| 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 |
| $1987{ }^{\text {b }}$ | 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 |
| Averages |  |  |  |  |  |  |  |  |  |  |  |  |
| 85-11 | 59 | 14 | 46 | 20 | 406 | 75 |  |  |  |  | 466 | 96 |
| 02-11 | 21 | 19 | 12 | 21 | 277 | 83 |  |  |  |  | 532 | 161 |

Appendix B. 7. Index counts of Stikine large Chinook salmon escapements, 1979-2012.

| Total run from jointly accepted US and Canadian harvest estimates. Terminal run includes only harvest in the Stikine River and District 108. Andrews Creek is expanded counts starting in 1985. |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Inriver | Inriver |  | Marine | Terminal | \% to | Little | Tahltan | Tahltan | Beatty | Andrew | Andrew |
| Year | Run | harvest | Escapement | harvest | Run | Little Tahltan | Weir | Aerial | Aerial | Aerial | Creek | Comments |
| 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 p | ak time due | to weathe | 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 |
| Averages |  |  |  |  |  |  |  |  |  |  |  |  |
| 96-11 | 35,677 | 5,936 | 29,741 |  |  | 0.174 | 5,336 |  |  |  | 1,148 |  |
| 02-11 | 35,881 | 7,330 | 28,551 | 9,004 | 44,885 | 0.147 | 4,905 |  |  |  | 1,545 |  |

Appendix B. 8. General stock proportions and harvest of sockeye salmon in the Alaskan commercial gillnet fishery; District 106 \& 108, 1982-2012.

| Year | D106 |  | D106-41/42 |  | D106-30 |  | D108 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Other | Total Stikine | Other | Total Stikine | Other | Total Stikine | Other | Total Stikine |
| 1982 | 0.806 | 0.194 |  |  |  |  |  |  |
| 1983 | 0.884 | 0.116 |  |  |  |  |  |  |
| 1984 | 0.926 | 0.074 |  |  |  |  |  |  |
| 1985 | 0.898 | 0.102 | 0.881 | 0.119 | 0.930 | 0.070 | 0.064 | 0.936 |
| 1986 | 0.982 | 0.018 | 0.970 | 0.030 | 0.998 | 0.002 | 0.223 | 0.777 |
| 1987 | 0.983 | 0.017 | 0.982 | 0.018 | 0.984 | 0.016 | 0.125 | 0.875 |
| 1988 | 0.980 | 0.020 | 0.980 | 0.020 | 0.979 | 0.021 | 0.251 | 0.749 |
| 1989 | 0.968 | 0.032 | 0.956 | 0.044 | 0.984 | 0.016 | 0.171 | 0.829 |
| 1990 | 0.979 | 0.021 | 0.974 | 0.026 | 0.985 | 0.015 | 0.523 | 0.477 |
| 1991 | 0.876 | 0.124 | 0.837 | 0.163 | 0.940 | 0.060 | 0.291 | 0.709 |
| 1992 | 0.828 | 0.172 | 0.823 | 0.177 | 0.841 | 0.159 | 0.214 | 0.786 |
| 1993 | 0.738 | 0.262 | 0.696 | 0.304 | 0.808 | 0.192 | 0.345 | 0.655 |
| 1994 | 0.833 | 0.167 | 0.802 | 0.198 | 0.925 | 0.075 | 0.534 | 0.466 |
| 1995 | 0.876 | 0.124 | 0.851 | 0.149 | 0.921 | 0.079 | 0.339 | 0.661 |
| 1996 | 0.799 | 0.201 | 0.724 | 0.276 | 0.990 | 0.010 | 0.184 | 0.816 |
| 1997 | 0.847 | 0.153 | 0.807 | 0.193 | 0.944 | 0.056 | 0.188 | 0.812 |
| 1998 | 0.905 | 0.095 | 0.887 | 0.113 | 0.947 | 0.053 | 0.223 | 0.777 |
| 1999 | 0.763 | 0.237 | 0.719 | 0.281 | 0.867 | 0.133 | 0.180 | 0.820 |
| 2000 | 0.876 | 0.124 | 0.833 | 0.167 | 0.954 | 0.046 | 0.331 | 0.669 |
| 2001 | 0.857 | 0.143 | 0.829 | 0.171 | 0.901 | 0.099 | 0.874 | 0.126 |
| 2002 | 0.856 | 0.144 | 0.831 | 0.169 | 0.915 | 0.085 | 0.995 | 0.005 |
| 2003 | 0.838 | 0.162 | 0.796 | 0.204 | 0.971 | 0.029 | 0.345 | 0.655 |
| 2004 | 0.721 | 0.279 | 0.641 | 0.359 | 0.948 | 0.053 | 0.131 | 0.869 |
| 2005 | 0.791 | 0.209 | 0.744 | 0.256 | 0.939 | 0.061 | 0.306 | 0.694 |
| 2006 | 0.726 | 0.274 | 0.602 | 0.398 | 0.941 | 0.059 | 0.197 | 0.803 |
| 2007 | 0.591 | 0.409 | 0.493 | 0.507 | 0.943 | 0.057 | 0.312 | 0.688 |
| 2008 | 0.445 | 0.555 | 0.328 | 0.672 | 0.691 | 0.309 | 0.199 | 0.801 |
| 2009 | 0.618 | 0.382 | 0.540 | 0.460 | 0.832 | 0.168 | 0.183 | 0.817 |
| 2010 | 0.877 | 0.123 | 0.792 | 0.208 | 0.970 | 0.030 | 0.233 | 0.767 |
| 2011 | 0.790 | 0.211 | 0.691 | 0.309 | 0.956 | 0.044 | 0.197 | 0.803 |
| 2012 | 0.809 | 0.191 | 0.728 | 0.272 | 0.961 | 0.039 | 0.150 | 0.850 |
| Averages |  |  |  |  |  |  |  |  |
| 83-11 | 0.829 | 0.171 | 0.778 | 0.222 | 0.926 | 0.074 | 0.302 | 0.698 |
| 02-11 | 0.725 | 0.275 | 0.646 | 0.354 | 0.911 | 0.089 | 0.310 | 0.690 |
| 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 |
| Averages |  |  |  |  |  |  |  |  |
| 83-12 | 117,015 | 21,904 | 74,455 | 19,377 | 44,946 | 3,086 | 11,468 | 32,434 |
| 03-12 | 72,375 | 25,058 | 44,186 | 23,077 | 28,189 | 1,981 | 12,741 | 42,806 |

Appendix B. 9. Stikine stock proportions and harvest of sockeye salmon in the Alaskan commercial gillnet fishery; Districts 106 \& 108, 1982-2012.

|  | D106 |  |  | D106-41/42 |  |  | D106-30 |  |  | D108 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | AllTahltan | Tuya | Mainstem | AllTahltan | Tuya | Mainstem | AllTahltan | Tuya | Mainstem | AllTahltan | 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 |
| Averages |  |  |  |  |  |  |  |  |  |  |  |  |
| 83-11 | 0.093 | 0.067 | 0.038 | 0.124 | 0.090 | 0.042 | 0.027 | 0.020 | 0.034 | 0.311 | 0.129 | 0.306 |
| 02-11 | 0.158 | 0.073 | 0.044 | 0.208 | 0.098 | 0.048 | 0.033 | 0.019 | 0.038 | 0.380 | 0.114 | 0.196 |
| 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 |
| Averages |  |  |  |  |  |  |  |  |  |  |  |  |
| 83-11 | 12,654 | 6,843 | 5,151 | 12,112 | 6,177 | 3,793 | 1,194 | 665 | 1,565 | 18,847 | 6,109 | 10,250 |
| 02-11 | 15,539 | 5,813 | 3,643 | 14,900 | 5,310 | 2,721 | 640 | 503 | 923 | 24,413 | 5,158 | 11,365 |

Appendix B. 10. Tahltan sockeye salmon stock proportions and harvest of in the Alaskan commercial gillnet fishery; Districts 106 \& 108, 1994-2012.

| Year | D106 |  |  | D106-41/42 |  |  | D106-30 |  |  | D108 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | AllTahltan EnhanceTahltan WildTahltan |  |  | AllTahltan | EnhanceTahltan WildTahltan |  | AllTahltan EnhanceTahltan WildTahltan |  |  | AllTahltan EnhanceTahltan 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 |
| Averages |  |  |  |  |  |  |  |  |  |  |  |  |
| 94-11 | 0.120 | 0.049 | 0.071 | 0.156 | 0.067 | 0.089 | 0.030 | 0.006 | 0.024 | 0.352 | 0.136 | 0.216 |
| 02-11 | 0.158 | 0.076 | 0.082 | 0.208 | 0.104 | 0.104 | 0.033 | 0.006 | 0.027 | 0.380 | 0.185 | 0.196 |
| 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 |
| Averages |  |  |  |  |  |  |  |  |  |  |  |  |
| 94-11 | 15,510 | 5,579 | 9,931 | 14,457 | 5,340 | 9,117 | 1,052 | 239 | 814 | 25,845 | 9,739 | 16,106 |
| 02-11 | 15,539 | 7,428 | 8,111 | 14,900 | 7,264 | 7,636 | 640 | 164 | 476 | 24,413 | 12,244 | 12,170 |

Appendix B. 11. Stikine River sockeye salmon harvest in the U.S. Subsistence fishery, 2004-2012.

| Stocks were proportioned based on using inriver stock comps |  |  |  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | All Tahltan | Tuya | Mainstem | Total | All Tahltan | Tuya | Mainstem | EnhanceTahltan | 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 |

Appendix B. 12. Stock proportions of sockeye salmon in the Alaskan District 106 and 108 test fisheries, 1984-2012.

| Year | Alaska | Canada | Stikine |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | All Tahltan | Tuya | Mainstem | Total | EnhanceTahltan | WildTahltan |
| Subdistrict 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 |
| Subdistrict 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 |  |  |
| Subdistrict 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. 13. All harvest in of sockeye salmon in Canadian commercial and

 assessment fisheries, 1972-2012.| All Tuya Area fish considered to be Tuya fish. |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Commercial/FN |  |  |  | Test |  |  |  |  | Tahltan Area |  | Tuya Area |  |
| Year | LRCF | URCF | Telegraph <br> Aboriginal | Total Canadian treaty harvest | Drift Net | Set Net | Additional Drifts | Tuya <br> Assesment | Test total | ESSR | Oto samples | ESSR | Oto samples |
| 1972 |  |  | 4,373 | 4,373 |  |  |  |  |  |  |  |  |  |
| 1973 |  |  | 3,670 | 3,670 |  |  |  |  |  |  |  |  |  |
| 1974 |  |  | 3,500 | 3,500 |  |  |  |  |  |  |  |  |  |
| 1975 |  | 270 | 1,982 | 2,252 |  |  |  |  |  |  |  |  |  |
| 1976 |  | 733 | 2,911 | 3,644 |  |  |  |  |  |  |  |  |  |
| 1977 |  | 1,975 | 4,335 | 6,310 |  |  |  |  |  |  |  |  |  |
| 1978 |  | 1,500 | 3,500 | 5,000 |  |  |  |  |  |  |  |  |  |
| 1979a | 10,534 |  | 3,000 | 13,534 |  |  |  |  |  |  |  |  |  |
| 1980 | 18,119 | 700 | 2,100 | 20,919 |  |  |  |  |  |  |  |  |  |
| 1981 | 21,551 | 769 | 4,697 | 27,017 |  |  |  |  |  |  |  |  |  |
| 1982 | 15,397 | 195 | 4,948 | 20,540 |  |  |  |  |  |  |  |  |  |
| 1983 | 15,857 | 614 | 4,649 | 21,120 |  |  |  |  |  |  |  |  |  |
| 1984 |  |  | 5,327 | 5,327 |  |  |  |  |  |  |  |  |  |
| 1985 | 17,093 | 1,084 | 7,287 | 25,464 |  | 1,340 |  |  | 1,340 |  |  |  |  |
| 1986 | 12,411 | 815 | 4,208 | 17,434 | 412 |  |  |  | 412 |  |  |  |  |
| 1987 | 6,138 | 498 | 2,979 | 9,615 | 385 | 1,283 |  |  | 1,668 |  |  |  |  |
| 1988 | 12,766 | 348 | 2,177 | 15,291 | 325 | 922 |  |  | 1,247 |  |  |  |  |
| 1989 | 17,179 | 493 | 2,360 | 20,032 | 364 | 1,243 |  |  | 1,607 |  |  |  |  |
| 1990 | 14,530 | 472 | 3,022 | 18,024 | 447 | 1,493 |  |  | 1,940 |  |  |  |  |
| 1991 | 17,563 | 761 | 4,439 | 22,763 | 503 | 1,872 |  |  | 2,375 |  |  |  |  |
| 1992 | 21,031 | 822 | 4,431 | 26,284 | 393 | 1,971 | 594 |  | 2,958 |  |  |  |  |
| 1993 | 38,464 | 1,692 | 7,041 | 47,197 | 440 | 1,384 | 1,925 |  | 3,749 | 1,752 |  | 0 |  |
| 1994 | 38,462 | 2,466 | 4,167 | 45,095 | 179 | 414 | 840 |  | 1,433 | 6,852 |  | 0 |  |
| 1995 | 45,622 | 2,355 | 5,490 | 53,467 | 297 | 850 | 1,423 |  | 2,570 | 10,740 |  | 0 |  |
| 1996 | 66,262 | 1,101 | 6,918 | 74,281 | 262 | 338 | 712 |  | 1,312 | 14,339 |  | 216 |  |
| 1997 | 56,995 | 2,199 | 6,365 | 65,559 | 245 |  |  |  | 245 |  | 378 | 2,015 |  |
| 1998 | 37,310 | 907 | 5,586 | 43,803 | 190 |  |  |  | 190 |  | 390 | 6,103 |  |
| 1999 | 32,556 | 625 | 4,874 | 38,055 | 410 | 803 | 4,683 |  | 5,896 |  | 429 | 2,822 |  |
| 2000 | 20,472 | 889 | 6,107 | 27,468 | 374 | 1,015 | 989 |  | 2,378 |  | 406 | 1,283 |  |
| 2001 | 19,872 | 487 | 5,241 | 25,600 | 967 | 2,223 | 91 |  | 3,281 |  | 50 | 0 | 410 |
| 2002 | 10,420 | 484 | 6,390 | 17,294 | 744 | 3,540 | 128 |  | 4,412 |  | 400 | 0 | 501 |
| 2003 | 51,735 | 454 | 6,595 | 58,784 | 997 | 2,173 | 186 |  | 3,356 |  | 400 | 7,031 | 0 |
| 2004 | 77,530 | 626 | 6,862 | 85,018 | 420 | 918 | 0 |  | 1,338 |  | 420 | 1,675 | 0 |
| 2005 | 79,952 | 605 | 5,333 | 85,890 | 339 | 1,312 | 0 |  | 1,651 |  | 400 | 0 | 148 |
| 2006 | 95,791 | 520 | 5,094 | 101,405 | 299 | 629 | 0 |  | 928 |  | 400 | 0 | 0 |
| 2007 | 56,913 | 912 | 2,188 | 60,013 | 435 | 673 | 0 |  | 1,108 |  | 200 | 0 | 151 |
| 2008 | 28,636 | 505 | 4,510 | 33,651 | 241 | 870 | 0 | 1,955 | 3,066 |  | 100 |  | 280 |
| 2009 | 39,409 | 2,476 | 5,148 | 47,033 | 250 | 1,092 | 0 | 2,144 | 3,486 |  | 349 |  | 214 |
| 2010 | 42,049 | 1,215 | 7,276 | 50,540 | 304 | 1,450 | 3 | 2,792 | 4,549 |  | 158 |  | 224 |
| 2011 | 47,575 | 972 | 6,893 | 55,440 | 590 | 2,525 | 21 | 2,878 | 6,014 |  | 340 |  | 153 |
| 2012 | 25,939 | 468 | 4,000 | 30,407 | 638 | 1,139 | 19 | 2,306 | 4,102 |  | 224 |  | 189 |
| Averages |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 85-11 | 37,212 | 992 | 5,147 | 43,352 | 416 | 1,347 |  |  | 2,389 |  |  |  |  |
| 02-11 | 53,001 | 877 | 5,629 | 59,507 | 462 | 1,518 | 34 | 2,442 | 2,991 |  | 317 |  | 136 |

Appendix B. 14. Sockeye salmon stock proportions and harvest by stock in the Canadian commercial and assessment fishery in the Stikine River, 1979-2012.

| Stock compositions based on: scale circuli counts 1970-1983; SPA in 1985; average of SPA and GPA 1986; SPA in 1987 and 1988; and egg diameter and otolith thermal marks in 1989-2012. stock comp comes from sampling at this terminal fishing site |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | LRCF |  |  | URCF |  |  | Telegraph Aboriginal |  |  | LRTF |  |  | Tuya Assessment |  |  |
| Year | All Tahltaı | Tuya | Mainstem | All Tahltan | Tuya | Mainstem | All Tahltan | Tuya | Mainstem | All Tahltar | Tuya | Mainstem | All Tahltan | Tuya | Mainster |
| 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 |
| Averages |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 79-11 | 0.471 |  | 0.419 | 0.761 | 0.153 | 0.086 | 0.767 | 0.145 | 0.089 |  |  |  |  |  |  |
| 02-11 | 0.562 | 0.190 | 0.248 | 0.704 | 0.218 | 0.078 | 0.697 | 0.217 | 0.086 | 0.360 | 0.129 | 0.512 |  |  |  |

Appendix B. 14. Continued.

|  | LRCF |  |  | URCF |  |  | Telegraph Aboriginal |  |  | LRTF |  |  | Tuya Assessment |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | All Tahltar | Tuya | Mainstem | All Tahltan | Tuya | Mainstem | All Tahltan | Tuya | Mainstem | All Tahltar | Tuya | Mainstem | All Tahltan | Tuya | Mainster |
| 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 |
| Averages |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 79-11 | 18,301 |  | 11,146 | 708 |  | 77 | 3,700 |  | 401 |  |  |  |  |  |  |
| 02-11 | 32,870 | 8,643 | 11,488 | 602 | 215 | 60 | 3,898 | 1,340 | 390 | 759 | 249 | 1,006 |  |  |  |

Appendix B. 15. Tahltan sockeye salmon stock proportions and harvest by stock in the Canadian commercial and assessment fishery in the Stikine River, 1979-2012.


Appendix B. 16. Tahltan Lake weir data with enhanced and wild Tahltan fish, 19792012.


Appendix B. 17. Sockeye salmon harvest by stock in the Stikine River under Canadian ESSR licenses, 1992-2012.

| Year | Tahltan Area ESSR License |  |  | Tuya Area ESSR |  | otolith samples |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | All Tahltan | EnhanceTahltan | WildTahltan | Tuya | Total |  |
| 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 | 216 |  |
| 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 |

Appendix B. 18. Estimated proportion of inriver run comprised of Tahltan, Tuya, and mainstem sockeye salmon, 1979-2012.
In 1979-1988, there were US estimates and 1983-1988, they overlapped with estimates from Canada
and the All tahltan estimate was oftened averaged. The estimates are from the LRCF, test, or average of LRCF and Test.

| 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 | average |
| 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 |
| Averages |  |  |  |  |
| 79-11 | 0.447 |  | 0.452 |  |
| 02-11 | 0.513 | 0.172 | 0.315 |  |

Appendix B. 19. Aerial survey counts of Mainstem sockeye salmon stocks in the Stikine River drainage, 1984-2012.

| Year | Chutine River | Scud <br> River | Porcupine Slough | Christina Creek | Craig <br> River | Bronson Slough | Verrett Creek | Verrett Slough | Escapement Index |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1984 | 526 | 769 | 69 | 130 | 102 |  | 640 |  | 2,236 |
| 1985 | 253 | 282 | 69 | 67 | 27 |  | 383 |  | 1,081 |
| 1986 | 139 | 151 | 6 | 0 | 0 |  | 270 |  | 566 |
| 1987 | 6 | 490 | 62 | 6 | 30 |  | 103 |  | 697 |
| 1988 | 14 | 219 | 22 | 7 | 0 |  | 114 |  | 376 |
| 1989 | 29 | 269 | 133 | 10 | 60 | 60 | 180 | 68 | 809 |
| 1990 | 24 | 301 | 31 | 4 | 0 | 0 | 301 | 82 | 743 |
| 1991 | 0 | 100 | 61 |  | 7 | 32 | 179 | 8 | 387 |
| 1992 | 164 | 1,242 | 90 | 50 | 17 | 138 | 163 | 22 | 1,886 |
| 1993 | 57 | 321 | 141 | 28 | 2 | 79 | 107 | 142 | 877 |
| 1994 | 267 | 292 | 66 |  |  | 62 | 147 | 114 | 948 |
| 1995 | 13 | 260 | 11 |  |  | 72 | 47 | 31 | 434 |
| 1996 | 134 | 351 | 149 |  |  | 27 | 54 | 338 | 1,053 |
| 1997 | 204 | 271 | 25 |  |  | 12 | 116 | 32 | 660 |
| 1998 | 230 | 246 | 89 |  |  | 9 | 183 | 135 | 892 |
| 1999 | 56 | 301 | 64 |  |  | 54 | 98 | 78 | 651 |
| 2000 | 47 | 86 | 86 |  |  | 32 | 0 | 90 | 341 |
| 2001 | 601 | 2,037 | 268 |  |  | 163 | 217 | 232 | 3,518 |
| 2002 | 239 | 216 | 95 |  |  | 13 | 353 | 0 | 916 |
| 2003 | 240 | 71 | 239 |  |  | 0 | 54 | 0 | 604 |
| 2004 | 245 | 262 | 56 |  |  | 0 | 85 | 0 | 648 |
| 2005 | 66 | 124 | 111 |  |  | 23 | 158 | 76 | 558 |
| 2006 | 276 | 288 | 59 |  |  | 0 | 140 | 180 | 943 |
| 2007 | 0 | 17 | 34 | 0 |  | 3 | 45 | 21 | 120 |
| 2008 | 83 | 41 | 33 | 0 |  | 0 | 15 | 231 | 403 |
| 2009 | 51 | 45 | 0 |  |  | 0 | 17 | 0 | 113 |
| 2010 | 103 | 300 | 187 |  |  | 0 | 310 | 217 | 1,117 |
| 2011 | No Surveys Conducted |  |  |  |  |  |  |  | 0 |
| 2012 | 0 | 0 | 15 |  |  | aborted | aborted | aborted | 15 |
| Averages |  |  |  |  |  |  |  |  |  |
| 84-11 | 151 | 346 | 84 |  |  | 35 | 166 | 95 | 842 |
| 02-11 | 145 | 152 | 90 |  |  | 4 | 131 | 81 | 542 |

Appendix B. 20. Stikine River sockeye salmon run size, 1979-2012.

|  | Stikine River |  |  |  |  | All Tahltan |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Inriver <br> Run | Inriver <br> Harvest | Escapement | Marine <br> Harvest | Terminal Run | Inriver <br> Run | Inriver <br> Harvest | Escapement | Marine <br> Harvest | Terminal <br> 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 |
| Averages |  |  |  |  |  |  |  |  |  |  |
| 79-11 | 110,260 | 42,582 | 67,679 | 49,918 | 160,179 | 52,893 | 24,118 | 28,775 | 28,490 | 81,383 |
| 02-11 | 136,849 | 63,852 | 72,997 | 66,499 | 203,348 | 73,655 | 38,766 | 34,889 | 40,231 | 113,885 |

-continued-

Appendix B. 20. Continued.

|  | Stikine Mainstem |  |  |  |  | Tuya |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Inriver <br> Run | Inriver <br> Harvest | Escapement | Marine <br> Harvest | $\begin{gathered} \hline \text { Terminal } \\ \text { Run } \\ \hline \end{gathered}$ | Inriver <br> Run | Inriver <br> Harvest | Escapement | Marine <br> Harvest | $\begin{gathered} \hline \text { Terminal } \\ \text { Run } \\ \hline \end{gathered}$ |
| 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 |
| Averages |  |  |  |  |  |  |  |  |  |  |
| 79-11 | 46,607 | 12,039 | 34,567 | 14,579 | 61,186 |  |  |  |  |  |
| 02-11 | 42,313 | 13,047 | 29,266 | 15,160 | 57,473 | 20,881 | 12,039 | 8,842 | 11,109 | 31,990 |

Appendix B. 21. Coho salmon harvest in the Alaskan District 106 and 108 test fisheries, 1984-2012.
Table only includes years when test fisheries were operated.

| Year | $106-41 / 42$ | $106-30$ | Total D106 | D108 |
| :--- | :---: | :---: | :---: | :---: |
| 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 |  |
| --- |  |  |  | 142 |
| 1998 |  |  |  | 217 |
| 1999 |  |  |  | 140 |
| 2000 |  |  |  |  |
| --- |  |  |  | 0 |
| 2009 |  |  |  |  |

Appendix B. 22. Annual harvest of coho salmon in the Canadian lower and upper river commercial, Telegraph Aboriginal and the Canadian test fisheries, 1979-2012.


Appendix B. 23. Index counts of Stikine coho salmon escapements, 1984-2012.

|  | 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 |
| $200611 / 02$ | 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 11/03a | 37 | 237 | 31 | 363 |  | 130 | 953 |  | 1,751 |
| 2011 11/04 | 182 | 689 | 459 | 309 |  | 437 | 468 |  | 2,542 |
| 2012 11/05c | aborted | aborted | aborted | aborted |  | 3 | 336 |  |  |
| Average |  |  |  |  |  |  |  |  |  |
| 84-11 | 213 | 733 | 904 | 451 |  | 434 | 570 |  | 3,172 |
| 02-11 | 254 | 869 | 855 | 564 |  | 300 | 653 |  | 3,370 |

[^1]Appendix B. 24. Effort in the Canadian fisheries, including assessment fisheries in the Stikine River, 1979-2012.

| Year | LRCF |  | URCF |  | Test Fisheries |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  Permit <br> Days Days |  | Days | Permit <br> Days | standard test fisheries |  | Chinook assessment |  |
|  |  |  | \# of Drift |  | Set hours | Days | Permit <br> Days |
| 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 |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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 | 37.3 | 349 | 12.0 | 15.0 | 860 | 468 | 8 | 94 |
| 2011 | 44.7 | 641 | 9.0 | 12.0 | 882 | 335 | 3 | 57 |
| 2012 | 36.6 | 19.6 | 6.0 | 12.0 | 936 | 239 | 1 | 18 |
| Averages |  |  |  |  |  |  |  |  |
| 85-11 | 45 | 407 | 16 | 24 | 625 | 1,143 |  |  |
| 02-11 | 50 | 534 | 14 | 15 | 730 | 707 |  |  |

Appendix B. 25. Counts of adult sockeye salmon migrating through Tahltan Lake weir, 1959-2012.

|  | Weir | Date of Arrival |  |  | $\begin{array}{r} \text { Weir } \\ \text { Pulled } \\ \hline \end{array}$ | Total Count | Total escapement | Broodstock | Samples or ESSR | Otolith Samples | Spawners |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Installed | First | 50\% | 90\% |  |  |  |  |  |  | Total | Enhanced | Wild |
| 1959 | 30-Jun | 2-Aug | 12-Aug | 16-Aug |  | 4,311 | 4,311 |  |  |  |  |  |  |
| 1960 | 15-Jul | 2-Aug | 24-Aug | 27-Aug |  | 6,387 | 6,387 |  |  |  |  |  |  |
| 1961 | 20-Jul | 9-Aug | 11-Aug | 15-Aug |  | 16,619 | 16,619 |  |  |  |  |  |  |
| 1962 | 1-Aug | 2-Aug | 5-Aug | 8-Aug |  | 14,508 | 14,508 |  |  |  |  |  |  |
| 1963 | 3-Aug |  |  |  |  | 1,780 | 1,780 |  |  |  |  |  |  |
| 1964 | 23-Jul | 26-Jul | 14-Aug | 25-Aug |  | 18,353 | 18,353 |  |  |  |  |  |  |
| 1965 | 19-Jul | 18-Jul | 2-Sep | 7-Sep |  | 1,471 | 1,471 |  |  |  |  |  |  |
| 1966 | 12-Jul | 3-Aug | 13-Aug | 21-Aug |  | 21,580 | 21,580 |  |  |  |  |  |  |
| 1967 | 11-Jul | 14-Jul | 21-Jul | 28-Jul |  | 38,801 | 38,801 |  |  |  |  |  |  |
| 1968 | 11-Jul | 21-Jul | 25-Jul | 8-Aug |  | 19,726 | 19,726 |  |  |  |  |  |  |
| 1969 | 7-Jul | 11-Jul | 18-Jul | 31-Jul |  | 11,805 | 11,805 |  |  |  |  |  |  |
| 1970 | 5-Jul | 25-Jul | 1-Aug | 11-Aug |  | 8,419 | 8,419 |  |  |  |  |  |  |
| 1971 | 12-Jul | 19-Jul | 28-Jul | 12-Aug |  | 18,523 | 18,523 |  |  |  |  |  |  |
| 1972 | 13-Jul | 13-Jul | 19-Jul | 31-Aug | 21-Aug | 52,545 | 52,545 |  |  |  |  |  |  |
| 1973 | 10-Jul | 24-Jul | 30-Jul | 7-Aug | 1-Sep | 2,877 | 2,877 |  |  |  |  |  |  |
| 1974 | 3-Jul | 28-Jul | 3-Aug | 17-Aug | 13-Sep | 8,101 | 8,101 |  |  |  |  |  |  |
| 1975 | 10-Jul | 25-Jul | 8-Aug | 17-Aug | 28-Aug | 8,159 | 8,159 |  |  |  |  |  |  |
| 1976 | 16-Jul | 29-Jul | 1-Aug | 6-Aug | 24-Aug | 24,111 | 24,111 |  |  |  |  |  |  |
| 1977 | 6-Jul | 11-Jul | 16-Jul | 10-Aug | 25-Aug | 42,960 | 42,960 |  |  |  |  |  |  |
| 1978 | 10-Jul | 10-Jul | 20-Jul | 29-Jul | 26-Aug | 22,788 | 22,788 |  |  |  |  |  |  |
| 1979 | 9-Jul | 23-Jul | 1-Aug | 11-Aug | 31-Aug | 10,211 | 10,211 |  |  |  |  |  |  |
| 1980 | 4-Jul | 15-Jul | 22-Jul | 12-Aug | 3-Sep | 11,018 | 11,018 |  |  |  |  |  |  |
| 1981 | 30-Jun | 16-Jul | 26-Jul | 3-Aug | 8-Sep | 50,790 | 50,790 |  |  |  |  |  |  |
| 1982 | 2-Jul | 10-Jul | 19-Jul | 29-Jul | 4-Sep | 28,257 | 28,257 |  |  |  |  |  |  |
| 1983 | 27-Jun | 5-Jul | 22-Jul | 5-Aug | 7-Sep | 21,256 | 21,256 |  |  |  |  |  |  |
| 1984 | 20-Jun | 19-Jul | 24-Jul | 3-Aug | 29-Aug | 32,777 | 32,777 |  |  |  |  |  |  |
| 1985 | 28-Jun | 18-Jul | 31-Jul | 6-Aug | 5-Sep | 67,326 | 67,326 |  |  |  |  |  |  |
| 1986 | 10-Jul | 26-Jul | 4-Aug | 11-Aug | 4-Sep | 20,280 | 20,280 |  |  |  |  |  |  |
| 1987 | 14-Jul | 21-Jul | 4-Aug | 13-Aug | 27-Aug | 6,958 | 6,958 |  |  |  |  |  |  |
| 1988 | 16-Jul | 16-Jul | 6-Aug | 14-Aug | 29-Aug | 2,536 | 2,536 |  |  |  |  |  |  |
| 1989 | 7-Jul | 9-Jul | 1-Aug | 14-Aug | 4-Sep | 8,316 | 8,316 | 2,210 |  |  | 6,106 |  |  |
| 1990 | 6-Jul | 15-Jul | 26-Jul | 3-Aug | 28-Aug | 14,927 | 14,927 | 3,302 |  |  | 11,625 |  |  |
| 1991 | 30-Jun | 17-Jul | 25-Jul | 7-Aug | 5-Sep | 50,135 | 50,135 | 3,552 |  |  | 46,583 |  |  |
| 1992 | 9-Jul | 18-Jul | 25-Jul | 3-Aug | 2-Sep | 59,907 | 59,907 | 3,694 |  |  | 56,213 |  |  |
| 1993 | 7-Jul | 10-Jul | 28-Jul | 10-Aug | 11-Sep | 53,362 | 51,610 | 4,506 | 1,752 |  | 47,104 | 1,030 | 46,074 |
| 1994 | 7-Jul | 14-Jul | 30-Jul | 9-Aug | 7-Sep | 46,363 | 39,511 | 3,378 | 6,852 |  | 36,133 | 6,172 | 29,961 |
| 1995 | 8-Jul | 9-Jul | 24-Jul | 12-Aug | 16-Sep | 42,317 | 31,577 | 4,902 | 10,740 |  | 26,675 | 10,084 | 16,591 |
| 1996 | 6-Jul | 14-Jul | 22-Jul | 04-Aug | 10-Sep | 52,500 | 38,161 | 4,402 | 14,339 |  | 33,759 | 3,936 | 29,823 |
| 1997 | 9-Jul | 15-Jul | 25-Jul | 26-Aug | 26-Sep | 12,483 | 12,105 | 2,294 |  | 378 | 9,811 | 1,982 | 7,829 |
| 1998 | 9-Jul | 11-Jul | 25-Jul | 26-Aug | 17-Sep | 12,658 | 12,268 | 3,099 |  | 390 | 9,169 | 616 | 8,553 |
| 1999 | 10-Jul | 19-Jul | 31-Jul | 13-Aug | 15-Sep | 10,748 | 10,319 | 2,870 |  | 429 | 7,449 | 497 | 6,952 |
| 2000 | 9-Jul | 21-Jul | 25-Jul | 03-Aug | 4-Sep | 6,076 | 5,670 | 1,717 |  | 406 | 3,953 | 801 | 3,152 |
| 2001 | 08-Jul | 19-Jul | 31-Jul | 09-Aug | 14-Sep | 14,811 | 14,761 | 2,386 |  | 50 | 12,375 | 4,900 | 7,475 |
| 2002 | 07-Jul | 12-Jul | 25-Jul | 08-Aug | 14-Sep | 17,740 | 17,340 | 3,051 |  | 400 | 11,169 | 3,799 | 7,370 |
| 2003 | 07-Jul | 11-Jul | 29-Jul | 08-Aug | 18-Sep | 53,933 | 53,533 | 3,946 |  | 400 | 49,587 | 21,694 | 27,893 |
| 2004 | 07-Jul | 12-Jul | 25-Jul | 10-Aug | 15-Sep | 63,372 | 62,952 | 4,243 |  | 420 | 58,709 | 29,994 | 28,715 |
| 2005 | 07-Jul | 11-Jul | 04-Aug | 25-Aug | 15-Sep | 43,446 | 43,046 | 3,424 |  | 400 | 39,622 | 16,420 | 23,202 |
| 2006 | 09-Jul | 12-Jul | 27-Jul | 20-Aug | 13-Sep | 53,855 | 53,455 | 3,403 |  | 400 | 50,052 | 24,126 | 25,926 |
| 2007 | 09-Jul | 20-Jul | 08-Aug | 19-Aug | 15-Sep | 21,074 | 20,874 | 2,839 |  | 200 | 18,035 | 7,673 | 10,362 |
| 2008 | 13-Jul | 21-Jul | 30-Jul | 10-Aug | 18-Sep | 10,516 | 10,416 | 2,364 |  | 100 | 8,052 | 4,143 | 3,909 |
| 2009 | 09-Jul | 13-Jul | 18-Jul | 04-Aug | 14-Sep | 30,673 | 30,324 | 3,011 |  | 349 | 27,313 | 4,041 | 23,272 |
| 2010 | 07-Jul | 10-Jul | 29-Jul | 12-Aug | 15-Sep | 22,860 | 22,702 | 4,484 |  | 158 | 18,218 | 7,789 | 10,429 |
| 2011 | 09-Jul | 13-Jul | 18-Jul | 07-Aug | 31-Aug | 34,588 | 34,248 | 4,559 |  | 340 | 29,689 | 10,248 | 19,441 |
| 2012 | 09-Jul | 16-Jul | 24-Jul | 08-Aug | 30-Aug | 13,687 | 13,463 | 3,949 |  | 224 | 9,514 | 3,928 | 5,586 |
| Aver |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 59-11 | 09-Jul | 18-Jul | 29-Jul | 11-Aug | 06-Sep | 25,130 | 24,404 |  |  |  |  |  |  |
| 02-11 | 08-Jul | 13-Jul | 27-Jul | 12-Aug | 13-Sep | 35,206 | 34,889 | 3,532 |  | 317 | 31,045 | 18,052 | 12,993 |

Appendix B. 26. Estimates of sockeye salmon smolt migrating through Tahltan Lake smolt weir, 1984-2012.

| Year | Weir Installed | Date of Arrival |  |  | Total <br> Count | Total <br> Estimate | Date and Expansion | Smolt |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | First | 50\% | 90\% |  |  |  | Wild | Enhanced |
| 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 |
| Averages |  |  |  |  |  |  |  |  |  |
| 84-11 | 06-May | 11-May | 23-May | 03-Jun |  | 1,184,349 |  |  |  |
| 02-11 | 06-May | 12-May | 23-May | 01-Jun |  | 1,538,365 |  | 883,147 | 655,219 |

${ }^{\text {a }}$ Estimate includes approximately 30,000 mortalities from overcrowding on May 22, 1987.
${ }^{\text {b }}$ 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. 27. Weir counts of Chinook salmon at Little Tahltan River, 1985-2012.

| Year | Installed | Date of Arrival |  | 90\% | Total Broodstock Count and Other |  | Natural Spawners |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | First | 50\% |  |  |  |  |
| 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 |
| Averages |  |  |  |  |  |  |  |
| 85-11 | 21-Jun | 26-Jun | 20-Jul | 01-Aug | 5,389 |  | 5,385 |
| 02-11 | 20-Jun | 26-Jun | 22-Jul | 02-Aug | 4,989 | -1 | 4,988 |
| nonlarge Chinook |  |  |  |  |  |  |  |
| 1985 | 03-Jul | 04-Jul | 31-Jul | 10-Aug | 316 |  | 316 |
| 1986 | 28-Jun | $03-\mathrm{Jul}$ | 25-Jul | 06-Aug | 572 |  | 572 |
| 1987 | 28-Jun | $03-\mathrm{Jul}$ | 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-Jul | 24-Jul | 07-Aug | 313 |  | 313 |
| 1992 | 24-Jun | 12-Jul | 22-Jul | 30-Jul | 131 |  | 131 |
| 1993 | 20-Jun | 30-Jun | 14-Jul | 01-Aug | 60 |  | 60 |
| 1994 | 18-Jun | 02-Jul | 22-Jul | 05-Aug | 121 |  | 121 |
| 1995 | 17-Jun | 22-Jun | 28-Jul | 10-Aug | 135 |  | 135 |
| 1996 | 17-Jun | 12-Jul | 25-Jul | 05-Aug | 22 |  | 22 |
| 1997 | 14-Jun | 26-Jun | 21-Jul | 1-Aug | 54 |  | 54 |
| 1998 | 13-Jun | 26-Jun | 20-Jul | 7-Aug | 37 |  | 37 |
| 1999 | 18-Jun | 1-Jul | 23-Jul | 6-Aug | 202 |  | 202 |
| 2000 | 19-Jun | 23-Jun | 20-Jul | 5-Aug | 108 |  | 108 |
| 2001 | 20-Jun | 23-Jun | 27-Jul | 3-Aug | 269 |  | 269 |
| 2002 | 20-Jun | 26-Jun | 21-Jul | 7-Aug | 618 |  | 618 |
| 2003 | 20-Jun | 30-Jun | 21-Jul | 5-Aug | 334 |  | 334 |
| 2004 | 18-Jun | 21-Jun | 19-Jul | 31-Jul | 250 |  | 250 |
| 2005 | 19-Jun | 29-Jun | 23-Jul | 4-Aug | 231 |  | 231 |
| 2006 | 20-Jun | 7-Jul | 23-Jul | 5-Aug | 93 |  | 93 |
| 2007 | 04-Jul | 15-Jul | 29-Jul | 1-Aug | 12 |  | 12 |
| 2008 | 19-Jun | 14-Jul | 25-Jul | 29-Jul | 139 |  | 139 |
| 2009 | 19-Jun | 9-Jul | 19-Jul | 4-Aug | 99 |  | 99 |
| 2010 | 19-Jun | 7-Jul | 26-Jul | 4-Aug | 221 |  | 221 |
| 2011 | 27-Jun | 7-Jul | 26-Jul | 4-Aug | 194 |  | 194 |
| 2012 | 27-Jun | 11-Jul | 18-Jul | 27-Jul | 51 |  | 51 |
| Averages |  |  |  |  |  |  |  |
| 85-11 | 21-Jun | 01-Jul | 23-Jul | 03-Aug | 216 |  | 216 |
| 02-11 | 21-Jun | 04-Jul | 23-Jul | 03-Aug | 219 |  | 212 |

Appendix B. 28. Historical pink and chum salmon harvest in the Canadian fisheries,

|  | LRCF |  | URCF |  | Aboriginal |  | Test |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Pink | Chum | Pink | Chum | Pink | Chum | Pink | Chum |
| 1972 |  |  |  |  | 0 | 0 |  |  |
| 1973 |  |  |  |  | 0 | 0 |  |  |
| 1974 |  |  |  |  | 0 | 0 |  |  |
| 1975 |  |  | 0 | 0 | 0 | 0 |  |  |
| 1976 |  |  | 0 | 0 | 0 | 0 |  |  |
| 1977 |  |  | 0 | 0 | 0 | 0 |  |  |
| 1978 |  |  | 0 | 0 | 0 | 0 |  |  |
| 1979 | 1,994 | 424 |  |  | 0 | 0 | 1,994 | 424 |
| 1980 | 736 | 771 | 20 | 0 | 0 | 0 | 756 | 771 |
| 1981 | 3,713 | 1,128 | 0 | 0 | 144 | 0 | 3,857 | 1,128 |
| 1982 | 1,782 | 722 | 0 | 0 | 60 | 0 | 1,842 | 722 |
| 1983 | 1,043 | 274 | 0 | 4 | 77 | 26 | 1,120 | 304 |
| 1984 |  |  |  |  | 62 | 0 | 62 | 0 |
| 1985 | 2,321 | 532 | 0 | 0 | 35 | 4 | 2,356 | 536 |
| 1986 | 107 | 295 | 0 | 0 | 0 | 12 | 107 | 307 |
| 1987 | 646 | 432 | 0 | 19 | 0 | 8 | 646 | 459 |
| 1988 | 418 | 730 | 0 | 0 | 0 | 3 | 418 | 733 |
| 1989 | 825 | 674 | 0 | 0 | 0 | 0 | 825 | 674 |
| 1990 | 496 | 499 | 0 | 0 | 0 | 0 | 496 | 499 |
| 1991 | 394 | 208 | 0 | 0 | 0 | 0 | 394 | 208 |
| 1992 | 122 | 231 | 0 | 0 | 0 | 0 | 122 | 231 |
| 1993 | 29 | 395 | 0 | 0 | 0 | 0 | 29 | 395 |
| 1994 | 89 | 173 | 1 | 0 | 0 | 0 | 90 | 173 |
| 1995 | 48 | 256 | 0 | 0 | 0 | 7 | 48 | 263 |
| 1996 | 25 | 229 | 0 | 0 | 0 | 3 | 25 | 232 |
| 1997 | 269 | 222 | 0 | 0 | 0 | 0 | 269 | 222 |
| 1998 | 55 | 13 | 0 | 0 | 0 | 0 | 55 | 13 |
| 1999 | 11 | 8 | 0 | 0 | 0 | 0 | 11 | 8 |
| 2000 | 181 | 144 | 0 | 0 | 0 | 0 | 181 | 144 |
| 2001 | 78 | 56 | 0 | 0 | 0 | 0 | 78 | 56 |
| 2002 | 19 | 33 | 0 | 0 | 0 | 0 | 19 | 33 |
| 2003 | 850 | 112 | 0 | 0 | 0 | 0 | 850 | 112 |
| 2004 | 8 | 134 | 0 | 0 | 0 | 0 | 8 | 134 |
| 2005 | 0 | 39 | 0 | 0 | 0 | 0 | 0 | 39 |
| 2006 | 0 | 14 | 0 | 0 | 4 | 0 | 4 | 14 |
| 2007 | 0 | 2 | 0 | 0 | 0 | 0 |  | 2 |
| 2008 | 88 | 90 | 0 | 0 | 0 | 0 | 88 | 90 |
| 2009 | 362 | 193 | 0 | 0 | 0 | 0 | 362 | 193 |
| 2010 | 209 | 122 | 0 | 0 | 0 | 0 | 209 | 122 |
| 2011 | 3 | 99 | 0 | 0 | 0 | 0 | 3 | 99 |
| 2012 | 0 | 363 | 0 | 0 | 0 | 0 | 0 | 363 |


| Appendix C. 1. Weekly Chinook salmon harvest in the U.S. fisheries in D111, 2012. |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ONLY inseason reference see the historcial Appendix D2 for final postseason estimate.All inseason estimates are based on CWT for sport, gillent, and troll harvest. |  |  |  |  |  |  |  |  |  |  |  |  |
|  | PU |  | D111sport |  |  |  | 111 gillnet |  |  | D111 troll | U.S. large | D111 Seine |
| SW | LargeTaku | Largetotal | Largehatchery | Large Taku | Nonlarge | Large total | Large hatchery | Large Taku | Largetotal | 1 Largehatchery LargeTaku | Taku | non-Taku |
| 18 |  | 72 | 40 | 32 |  |  |  | 0 |  |  | 32 |  |
| 19 |  | 73 | 0 | 73 | 4 | 54 | 8 | 46 | 4 | $0 \quad 4$ | 123 |  |
| 20 |  | 82 | 0 | 82 | 12 | 109 | 41 | 68 | 4 | $0 \quad 4$ | 154 |  |
| 21 |  | 171 | 0 | 171 |  |  |  | 0 |  |  | 171 |  |
| 22 |  | 213 | 61 | 152 |  |  |  | 0 |  |  | 152 |  |
| 23 |  | 138 | 0 | 138 |  |  |  | 0 |  |  | 138 |  |
| 24 |  | 95 | 0 | 95 |  |  |  | 0 |  |  | 95 |  |
| 25 |  | 65 | 15 | 50 | 135 | 241 | 38 | 203 |  |  | 253 |  |
| 26 |  | 150 | 51 | 99 | 70 | 98 | 37 | 61 |  |  | 160 | 5 |
| 27 | 20 | 180 | 114 | 66 | 88 | 165 | 24 | 141 |  |  | 227 | 25 |
| 28 | 3 | 120 | 168 | 0 | 0 | 95 |  | 95 | 30 |  | 98 | 28 |
| Total | 23 | 1,359 | 449 | 958 | 309 | 762 | 148 | 614 | 38 | $0 \quad 8$ | 1,603 | 58 |

Appendix C. 2. Weekly Chinook salmon abundance estimates of above border run and harvest in the Canadian fisheries in the Taku River 2012.

|  | Above | Con | mercial | Tes | fishery |  | iginal |  | Total lar | Above Border |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| SW | Border Run | Large | nonlarge | Large | nonlarge | Large | nonlarge | Rec | Harvest | Escapement |
| 18 |  | 187 | 15 |  |  | 3 | 0 |  | 190 |  |
| 19 | 2,496 | 494 | 39 |  |  | 2 | 0 |  | 496 |  |
| 20 | 4,755 | 483 | 57 |  |  | 2 | 0 |  | 485 |  |
| 21 | 5,587 |  |  | 239 | 29 | 12 | 1 |  | 251 |  |
| 22 | 6,466 |  |  | 239 | 37 | 15 | 2 |  | 254 |  |
| 23 | 7,503 |  |  | 240 | 27 | 15 | 2 |  | 255 |  |
| 24 | 8,763 |  |  | 145 | 21 | 3 | 0 |  | 148 |  |
| 25 | 10,181 | 254 | 108 |  |  | 0 | 0 |  | 254 |  |
| 26 | 10,923 | 232 | 115 |  |  | 5 | 3 |  | 237 |  |
| 27 | 12,136 | 235 | 112 |  |  | 1 | 0 |  | 236 |  |
| 28 | 12,292 | 32 | 23 |  |  | 1 | 0 |  | 33 |  |
| 29 | 12,292 | 9 | 6 |  |  | 8 | 6 |  | 17 |  |
| 30 | 12,292 | 3 | 3 |  |  |  |  |  | 3 |  |
| 31 |  | 0 | 0 |  |  |  |  |  | 0 |  |
| 32 |  | 0 | 1 |  |  |  |  |  | 0 |  |
| 33 |  | 1 |  |  |  |  |  |  | 1 |  |
| Postseason estimate |  |  |  |  |  |  |  |  |  |  |
|  | 22,503 | 1,930 | 479 | 863 | 114 | 67 | 14 | 105 | 2,965 | 19,538 |

Appendix C. 3. Weekly sockeye salmon harvest of Alaskan D111 traditional and terminal common property commercial drift gillnet fishery, 2012.

|  |  | Traditional StatArea specific harvests |  |  |  | Terminal |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
|  | SW | D11 Total | $111-32$ | $111-31 / 90$ | $111-20$ | $111-34$ |
|  | $111-(33-35)$ |  |  |  |  |  |
| 25 | 1,222 | 1,217 | 5 |  |  |  |
| 26 | 1,442 | 1,417 | 25 |  |  |  |
| 27 | 3,257 | 3,078 | 179 |  |  |  |
| 28 | 5,063 | 4,362 | 701 |  |  |  |
| 29 | 19,631 | 14,567 | 5,064 |  |  |  |
| 30 | 32,799 | 20,188 | 12,611 |  |  |  |
| 31 | 17,074 | 10,819 | 4,769 | 1,486 |  |  |
| 32 | 31,837 | 6,081 | 24,973 | 783 |  | 620 |
| 33 | 10,689 | 4,764 | 4,706 | 1,219 |  |  |
| 34 | 16,777 | 896 | 369 | 64 | 729 |  |
| 35 | 972 | 326 | 26 |  |  |  |
| 36 | 126 | 108 | 18 |  |  |  |
| 37 | 5 | 5 |  |  |  |  |
| 38 | 4 | 4 |  |  |  |  |
| 39 | 0 | 0 |  |  |  |  |
| 40 | 0 | 0 |  |  |  |  |
| 41 | 0 |  |  |  |  |  |
| Total | 140,898 | 67,832 | 53,446 | 3,552 | 729 | 15,339 |

Appendix C. 4. Weekly stock proportions of sockeye salmon harvested in the Alaskan
District 111 traditional commercial drift gillnet fishery, 2012.

| Stock composition estimates are based on GSI. Does not inlcude Port Snettisham harvests. |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Taku harvest proportions |  |  |  |  |  |  | Total |  | U.S. | Stikine | Total | Total |
| Taku Lakes |  |  | Tatsamenie |  | Little Trapper <br> Enhanced | Taku Wild |  |  |  |  |  |  |
| SW | Other | Mainstem | Wild | Enhanced |  |  | Taku | other | Enhanced | Enhanced | Enhanced | wild |
| 25 | 0.387 | 0.551 |  | 0.000 | 0.010 | 0.938 | 0.948 | 0.042 | 0.000 | 0.010 | 0.021 | 0.979 |
| 26 | 0.411 | 0.309 |  | 0.000 | 0.000 | 0.720 | 0.720 | 0.219 | 0.000 | 0.060 | 0.061 | 0.939 |
| 27 | 0.697 | 0.212 |  | 0.004 | 0.042 | 0.909 | 0.955 | 0.026 | 0.004 | 0.015 | 0.065 | 0.935 |
| 28 | 0.427 | 0.401 |  | 0.024 | 0.053 | 0.829 | 0.905 | 0.021 | 0.063 | 0.011 | 0.150 | 0.850 |
| 29 | 0.236 | 0.398 |  | 0.041 | 0.006 | 0.634 | 0.681 | 0.085 | 0.234 | 0.000 | 0.281 | 0.719 |
| 30 | 0.050 | 0.272 |  | 0.026 | 0.002 | 0.321 | 0.349 | 0.088 | 0.563 | 0.000 | 0.591 | 0.409 |
| 31 | 0.079 | 0.310 |  | 0.040 | 0.000 | 0.389 | 0.429 | 0.139 | 0.432 | 0.000 | 0.472 | 0.528 |
| 32 | 0.036 | 0.049 |  | 0.015 | 0.000 | 0.085 | 0.100 | 0.079 | 0.821 | 0.000 | 0.836 | 0.164 |
| 33 | 0.076 | 0.222 |  | 0.040 | 0.000 | 0.298 | 0.338 | 0.097 | 0.565 | 0.000 | 0.605 | 0.395 |
| 34 | 0.076 | 0.222 |  | 0.040 | 0.000 | 0.298 | 0.338 | 0.097 | 0.565 | 0.000 | 0.605 | 0.395 |
| 35 | 0.076 | 0.222 |  | 0.040 | 0.000 | 0.298 | 0.338 | 0.097 | 0.565 | 0.000 | 0.605 | 0.395 |
| 36 | 0.076 | 0.222 |  | 0.040 | 0.000 | 0.298 | 0.338 | 0.097 | 0.565 | 0.000 | 0.605 | 0.395 |
| 37 | 0.076 | 0.222 |  | 0.040 | 0.000 | 0.298 | 0.338 | 0.097 | 0.565 | 0.000 | 0.605 | 0.395 |
| 38 | 0.076 | 0.222 |  | 0.040 | 0.000 | 0.298 | 0.338 | 0.097 | 0.565 | 0.000 | 0.605 | 0.395 |
| 39 | 0.076 | 0.222 |  | 0.040 | 0.000 | 0.298 | 0.338 | 0.097 | 0.565 | 0.000 | 0.605 | 0.395 |
| 40 | 0.076 | 0.222 |  | 0.040 | 0.000 | 0.298 | 0.338 | 0.097 | 0.565 | 0.000 | 0.605 | 0.395 |
| 41 | 0.076 | 0.222 |  | 0.040 | 0.000 | 0.298 | 0.338 | 0.097 | 0.565 | 0.000 | 0.605 | 0.395 |
| Total | 0.122 | 0.242 | 0.000 | 0.028 | 0.005 | 0.364 | 0.396 | 0.090 | 0.512 | 0.002 | 0.546 | 0.454 |
| 25 | 473 | 673 | 0 | 0 | 12 | 1,146 | 1,158 | 51 | 0 | 13 | 25 | 1,197 |
| 26 | 593 | 446 | 0 | 0 | 0 | 1,038 | 1,039 | 316 | 0 | 87 | 87 | 1,355 |
| 27 | 2,270 | 689 | 0 | 13 | 137 | 2,959 | 3,109 | 85 | 13 | 50 | 213 | 3,044 |
| 28 | 2,163 | 2,032 | 0 | 120 | 266 | 4,195 | 4,582 | 108 | 320 | 54 | 760 | 4,303 |
| 29 | 4,628 | 7,818 | 0 | 803 | 115 | 12,446 | 13,365 | 1,671 | 4,594 | 1 | 5,514 | 14,117 |
| 30 | 1,627 | 8,907 | 0 | 868 | 53 | 10,534 | 11,455 | 2,878 | 18,464 | 1 | 19,387 | 13,412 |
| 31 | 1,357 | 5,288 | 0 | 675 | 0 | 6,645 | 7,321 | 2,374 | 7,379 | 1 | 8,055 | 9,019 |
| 32 | 1,156 | 1,564 | 0 | 470 | 1 | 2,719 | 3,190 | 2,515 | 26,131 | 1 | 26,603 | 5,234 |
| 33 | 815 | 2,370 | 0 | 430 | 0 | 3,185 | 3,615 | 1,036 | 6,037 | 1 | 6,468 | 4,221 |
| 34 | 101 | 295 | 0 | 53 | 0 | 396 | 449 | 129 | 751 | 0 | 804 | 525 |
| 35 | 27 | 78 | 0 | 14 | 0 | 105 | 119 | 34 | 199 | 0 | 213 | 139 |
| 36 | 10 | 28 | 0 | 5 | 0 | 38 | 43 | 12 | 71 | 0 | 76 | 50 |
| 37 | 0 | 1 | 0 | 0 | 0 | 1 | 2 | 0 | 3 | 0 | 3 | 2 |
| 38 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 2 | 2 |
| 39 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 40 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 41 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 15,221 | 30,189 | 0 | 3,453 | 587 | 45,410 | 49,449 | 11,210 | 63,963 | 208 | 68,210 | 56,620 |

Appendix C. 5. Weekly sockeye salmon abundance estimates of above border run and harvest in the Canadian fisheries in the Taku River, 2012.

| Based on postseason mark-recapture estimate apportioned by fishwheel CPUE. |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| SW | Above <br> Border | Commercial |  | Assesment/ <br> Test | Aboriginal | Above <br> Border |
|  | Run | All | Taku |  |  | Escapement |
| 22 | 341 |  |  | 0 |  |  |
| 23 | 202 |  |  | 0 |  |  |
| 24 | 3,152 |  |  | 3 |  |  |
| 25 | 2,297 | 373 | 365 | 3 |  |  |
| 26 | 6,462 | 608 | 586 |  | 6 |  |
| 27 | 12,501 | 1,672 | 1,646 |  | 3 |  |
| 28 | 12,456 | 2,079 | 2,057 |  | 2 |  |
| 29 | 20,076 | 2,571 | 2,558 |  | 6 |  |
| 30 | 34,439 | 7,012 | 7,012 |  | 7 |  |
| 31 | 25,562 | 4,633 | 4,609 |  | 24 |  |
| 32 | 16,268 | 5,427 | 5,427 |  | 12 |  |
| 33 | 11,494 | 3,419 | 3,419 |  | 9 |  |
| 34 | 8,753 | 1,526 | 1,526 |  | 11 |  |
| 35 | 2,127 | 547 | 547 |  | 34 |  |
| 36 | 678 | 187 | 187 |  | 13 |  |
| 37 | 67 | 2 | 2 |  | 13 |  |
| 38 |  |  |  |  | 6 |  |
| Postseason | 155,590 | 30,056 | 29,939 | 6 | 169 | 125,476 |
| expansion | 156,877 | 30,056 | 29,939 | 6 | 169 | 126,762 |

Appendix C. 6. Estimates of wild and enhanced sockeye salmon stock harvested in the Canadian commercial fishery in the Taku River by week, 2012.

| Enhanced estimates based on harvest expanations of thermally marked fish. |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Little |  |  |  |  | Little |  |  |  |  |
|  | Trapper | Tats | Stikine | US | Taku | Trapper | Tats | Stikine | US | Taku |
| SW | Enhanced | Enhanced | Enhanced | Enhanced | Wild | Enhanced | Enhanced | Enhanced | Enhanced | Wild |
| 25 | 0.000 | 0.000 | 0.022 | 0.000 | 0.978 | 0 | 0 | 8 | 0 | 365 |
| 26 | 0.005 | 0.000 | 0.036 | 0.000 | 0.958 | 3 | 0 | 22 | 0 | 583 |
| 27 | 0.005 | 0.000 | 0.016 | 0.000 | 0.979 | 9 | 0 | 26 | 0 | 1,637 |
| 28 | 0.037 | 0.011 | 0.011 | 0.000 | 0.941 | 77 | 22 | 22 | 0 | 1,957 |
| 29 | 0.021 | 0.016 | 0.005 | 0.000 | 0.958 | 54 | 40 | 13 | 0 | 2,463 |
| 30 | 0.011 | 0.053 | 0.000 | 0.000 | 0.937 | 74 | 369 | 0 | 0 | 6,569 |
| 31 | 0.005 | 0.137 | 0.005 | 0.000 | 0.853 | 24 | 634 | 24 | 0 | 3,950 |
| 32 | 0.000 | 0.199 | 0.000 | 0.000 | 0.801 | 0 | 1,080 | 0 | 0 | 4,347 |
| 33 | 0.000 | 0.112 | 0.000 | 0.000 | 0.888 | 0 | 384 | 0 | 0 | 3,035 |
| 34 | 0.000 | 0.205 | 0.000 | 0.000 | 0.795 | 0 | 313 | 0 | 0 | 1,213 |
| 35 | 0.015 | 0.045 | 0.000 | 0.000 | 0.939 | 8 | 25 | 0 | 0 | 514 |
| 36 | 0.015 | 0.045 | 0.000 | 0.000 | 0.939 | 3 | 9 | 0 | 0 | 176 |
| 37 | 0.015 | 0.045 | 0.000 | 0.000 | 0.939 | 0 | 0 | 0 | 0 | 2 |
| Total | 0.008 | 0.096 | 0.004 | 0.000 | 0.892 | 253 | 2,876 | 117 | 0 | 26,811 |

Appendix C. 7. Weekly coho salmon harvest in the traditional Alaskan District 111 and subdistrict 111-32 (Taku Inlet), commercial drift gillnet fishery, 2012. Tradiontal fishery only; not include terminal common property harvest.

| SW | D111 |  |  | 111-32 |
| :---: | :---: | :---: | :---: | :---: |
|  | Total | Hatchery | Wild |  |
| 25 | 0 | 0 | 0 | 0 |
| 26 | 3 | 0 | 3 | 3 |
| 27 | 118 | 0 | 118 | 111 |
| 28 | 56 | 0 | 56 | 36 |
| 29 | 345 | 0 | 345 | 284 |
| 30 | 256 | 0 | 256 | 136 |
| 31 | 1,150 | 0 | 1,150 | 438 |
| 32 | 1,343 | 0 | 1,343 | 734 |
| 33 | 6,133 | 0 | 6,133 | 3,252 |
| 34 | 2,095 | 0 | 2,095 | 1,768 |
| 35 | 3,306 | 194 | 3,112 | 3,190 |
| 36 | 5,082 | 63 | 5,019 | 4,652 |
| 37 | 1,493 | 0 | 1,493 | 1,493 |
| 38 | 1,395 | 299 | 1,096 | 1,395 |
| 39 | 704 | 0 | 704 | 704 |
| 40 | 187 | 0 | 187 | 187 |
| 41 |  |  |  |  |
| Total | 23,666 | 556 | 23,110 | 18,383 |

Appendix C. 8. Weekly coho salmon abundance estimates of above border run and harvest in the Canadian fisheries in the Taku River, 2012.

| SW | Above border | Harvest |  |  |  | Above border Escapement |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Run | Commercial | Aboriginal | Recreational | Test |  |
| 18 |  |  |  |  |  |  |
| 19 |  |  |  |  |  |  |
| 20 |  |  |  |  |  |  |
| 21 |  |  |  |  |  |  |
| 22 |  |  |  |  |  |  |
| 23 |  |  |  |  |  |  |
| 24 |  |  |  |  |  |  |
| 25 |  |  |  |  |  |  |
| 26 |  |  |  |  |  |  |
| 27 |  | 3 |  |  |  |  |
| 28 |  | 47 |  |  |  |  |
| 29 |  | 124 |  |  |  |  |
| 30 |  | 318 |  |  |  |  |
| 31 |  | 304 |  |  |  |  |
| 32 |  | 631 | 4 |  |  |  |
| 33 |  | 1,456 | 10 |  |  |  |
| 34 | 19,932 | 3,261 | 181 |  |  |  |
| 35 |  | 2,725 | 68 |  |  |  |
| 36 | 41,609 | 2,612 | 7 |  | 654 |  |
| 37 |  | 64 | 11 |  | 646 |  |
| 38 | 61,797 | 3 | 43 |  | 500 |  |
| 39 |  |  |  |  | 400 |  |
| 40 |  |  |  |  |  |  |
| Before SW34 |  | 2,883 |  |  |  |  |
| SW34 to end |  | 8,665 |  |  |  |  |
| Postseason Estima | 61,797 | 11,548 | 324 | 0 | 2,200 | 47,725 |
| Expanded estimate | 85,033 | 11,548 | 324 |  | 2,200 | 70,961 |

Appendix C. 9. Weekly effort in the Alaskan traditional District 111 and subdistrict 11132 (Taku Inlet), commercial drift gillnet fishery, 2012.

| Traditional fishery only; not include common property. |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | D111 |  |  | D111-32 |  |  |
| SW | Start <br> Date | Boats | Days <br> Open | Boat <br> Days | Boats | Days <br> Open | Boat <br> Days |
| 19 | 6-May | 12 | 0.5 | 6 | 12 | 0.5 | 6 |
| 20 | 13-May | 20 | 0.5 | 10 | 20 | 0.5 | 10 |
| 21 | 20-May |  |  |  |  |  |  |
| 22 | 27-May |  |  |  |  |  |  |
| 23 | 3-Jun |  |  |  |  |  |  |
| 24 | 10-Jun |  |  |  |  |  |  |
| 25 | 17-Jun | 32 | 2 | 64 | 31 | 2 | 62 |
| 26 | 24-Jun | 29 | 2.0 | 58 | 29 | 2 | 58 |
| 27 | 1-Jul | 61 | 2.0 | 122 | 53 | 2 | 106 |
| 28 | 8-Jul | 82 | 2.0 | 164 | 77 | 2 | 154 |
| 29 | 15-Jul | 130 | 2.0 | 260 | 98 | 2 | 196 |
| 30 | 22-Jul | 126 | 3.0 | 378 | 75 | 2 | 150 |
| 31 | 29-Jul | 117 | 3.0 | 351 | 72 | 3 | 216 |
| 32 | 5-Aug | 98 | 3.0 | 294 | 45 | 3 | 135 |
| 33 | 12-Aug | 102 | 3.0 | 306 | 43 | 3 | 129 |
| 34 | 19-Aug | 54 | 2.0 | 108 | 34 | 2 | 68 |
| 35 | 26-Aug | 35 | 3.0 | 105 | 33 | 3 | 99 |
| 36 | 2-Sep | 32 | 3.0 | 96 | 30 | 3 | 90 |
| 37 | 9-Sep | 19 | 3.0 | 57 | 19 | 3 | 57 |
| 38 | 16-Sep | 15 | 3.0 | 45 | 15 | 3 | 45 |
| 39 | 23-Sep | 8 | 3.0 | 24 | 8 | 3 | 24 |
| 40 | 30-Sep | 5 | 3.0 | 15 | 5 | 3 | 15 |
| Total |  |  | 43.0 | 2,463 |  | 42.0 | 1,620 |

Appendix C. 10. Weekly effort in the Canadian commercial and assessment fisheries in the Taku River, 2012.

| SW | Commercial |  |  |  | Test |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Start <br> Date | Average Permits | Days <br> Fished | Permit Days | Average Permits | Days <br> Fished | Permit Days |
| 18 | 29-Apr | 3.75 | 4.00 |  |  |  |  |
| 19 | 6-May | 6.50 | 4.00 |  |  |  |  |
| 20 | 13-May | 7.33 | 3.00 |  |  |  |  |
| 21 | 20-May |  |  |  | 7.3 | 1.3 | 9.78 |
| 22 | 27-May |  |  |  | 6.7 | 1.2 | 7.78 |
| 23 | 3-Jun |  |  |  | 8.0 | 0.3 | 2.67 |
| 24 | 10-Jun |  |  |  | 5.0 | 0.5 | 2.71 |
| 25 | 17-Jun | 9.00 | 1.00 | 9.00 |  |  |  |
| 26 | 24-Jun | 6.40 | 5.00 | 32.00 |  |  |  |
| 27 | 1-Jul | 8.50 | 2.00 | 17.00 |  |  |  |
| 28 | 8-Jul | 8.00 | 2.00 | 16.00 |  |  |  |
| 29 | 15-Jul | 8.67 | 3.00 | 26.01 |  |  |  |
| 30 | 22-Jul | 8.25 | 4.00 | 33.00 |  |  |  |
| 31 | 29-Jul | 7.00 | 4.00 | 28.00 |  |  |  |
| 32 | 5-Aug | 7.25 | 4.00 | 29.00 |  |  |  |
| 33 | 12-Aug | 6.75 | 4.00 | 27.00 |  |  |  |
| 34 | 19-Aug | 7.60 | 5.00 | 38.00 |  |  |  |
| 35 | 26-Aug | 7.00 | 6.00 | 42.00 |  |  |  |
| 36 | 2-Sep | 4.14 | 7.00 | 28.98 |  |  |  |
| 37 | 9-Sep | 1.33 | 3.00 | 3.99 |  | 7 |  |
| 38 | 16-Sep | 1.00 | 1.00 |  |  | 5 |  |
| 39 |  |  |  |  |  | 5 |  |
| 40 |  |  |  |  |  | 3 |  |
| 41 |  |  |  |  |  |  |  |
| 42 |  |  |  |  |  |  |  |
| 43 |  |  |  |  |  |  |  |
| Total |  |  | 50 | 330 |  |  |  |

Appendix C. 11. Daily counts of adult sockeye salmon passing through Tatsamenie weir, 2012.

| Date | Tatsamenie |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Count | Cumulative |  |  |
|  |  | Count | Percent |  |
| 13-Aug | Weir installed |  |  |  |
| 14-Aug | 0 | 0 | 0.0 |  |
| 15-Aug | 0 | 0 | 0.0 |  |
| 16-Aug | 200 | 200 | 1.3 |  |
| 17-Aug | 1,537 | 1,737 | 11.1 |  |
| 18-Aug | 1,277 | 3,014 | 19.3 |  |
| 19-Aug | 1,143 | 4,157 | 26.6 |  |
| 20-Aug | 1,181 | 5,338 | 34.2 |  |
| 21-Aug | 950 | 6,288 | 40.3 |  |
| 22-Aug | 540 | 6,828 | 43.8 |  |
| 23-Aug | 601 | 7,429 | 47.6 |  |
| 24-Aug | 189 | 7,618 | 48.8 |  |
| 25-Aug | 849 | 8,467 | 54.3 |  |
| 26-Aug | 558 | 9,025 | 57.8 |  |
| 27-Aug | 910 | 9,935 | 63.7 |  |
| 28-Aug | 669 | 10,604 | 68.0 |  |
| 29-Aug | 348 | 10,952 | 70.2 |  |
| 30-Aug | 285 | 11,237 | 72.0 |  |
| 31-Aug | 221 | 11,458 | 73.4 |  |
| 1-Sep | 659 | 12,117 | 77.6 |  |
| 2-Sep | 450 | 12,567 | 80.5 |  |
| 3-Sep | 246 | 12,813 | 82.1 |  |
| 4-Sep | 154 | 12,967 | 83.1 |  |
| 5-Sep | 135 | 13,102 | 84.0 |  |
| 6-Sep | 342 | 13,444 | 86.2 |  |
| 7-Sep | 176 | 13,620 | 87.3 |  |
| 8-Sep | 244 | 13,864 | 88.8 |  |
| 9-Sep | 467 | 14,331 | 91.8 |  |
| 10-Sep | 66 | 14,397 | 92.3 |  |
| 11-Sep | 58 | 14,455 | 92.6 |  |
| 12-Sep | 185 | 14,640 | 93.8 |  |
| 13-Sep | 71 | 14,711 | 94.3 |  |
| 14-Sep | 223 | 14,934 | 95.7 |  |
| 15-Sep | 32 | 14,966 | 95.9 |  |
| 16-Sep | 63 | 15,029 | 96.3 |  |
| 17-Sep | 117 | 15,146 | 97.1 |  |
| 18-Sep | 38 | 15,184 | 97.3 |  |
| 19-Sep | 64 | 15,248 | 97.7 |  |
| 20-Sep | 62 | 15,310 | 98.1 |  |
| 21-Sep | 39 | 15,349 | 98.4 |  |
| 22-Sep | 126 | 15,475 | 99.2 |  |
| 23-Sep | 7 | 15,482 | 99.2 |  |
| 24-Sep | 65 | 15,547 | 99.6 |  |
| 25-Sep | 46 | 15,593 | 99.9 |  |
| 26-Sep | 2 | 15,595 | 99.9 |  |
| 27-Sep | 10 | 15,605 | 100.0 |  |
| 28-Sep | 0 | 15,605 | 100.0 |  |
| 29-Sep | 0 | 15,605 | 100.0 |  |
| 30-Sep Weir removed |  |  |  |  |
|  |  | Total | Wild | TMR |
| Holding below weir |  |  |  |  |
| Escapement to lake |  | 15,605 | 9,347 | 6,258 |
| Outlet spawners |  | <15 |  |  |
| otoltih samples |  | 399 | 239 | 160 |
| Broodstock a |  | -1,300 | -779 | -521 |
| Spawners |  | 14,305 |  |  |

a Broodstock included 513 females and 410 males from which gametes were collected,
29 females and 39 male mortalities, and 338 females and 86 males which were held and released unspawned.
The spawning success of the released fish is not known.

Appendix C. 12. Daily counts of adult sockeye salmon passing through Little Trapper Lake weir, 2012.

| Date | Count | Cumulative |  |
| :---: | :---: | :---: | :---: |
|  |  | Count | Percent |
| 26-Jul | Weir instal | d July 26 |  |
| 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 | 36 | 38 | 0.4 |
| 4-Aug | 135 | 173 | 1.7 |
| 5-Aug | 327 | 500 | 5.0 |
| 6-Aug | 555 | 1,055 | 10.5 |
| 7-Aug | 885 | 1,940 | 19.4 |
| 8-Aug | 1,927 | 3,867 | 38.6 |
| 9-Aug | 773 | 4,640 | 46.3 |
| 10-Aug | 778 | 5,418 | 54.1 |
| 11-Aug | 776 | 6,194 | 61.8 |
| 12-Aug | 711 | 6,905 | 68.9 |
| 13-Aug | 187 | 7,092 | 70.8 |
| 14-Aug | 503 | 7,595 | 75.8 |
| 15-Aug | 570 | 8,165 | 81.5 |
| 16-Aug | 290 | 8,455 | 84.4 |
| 17-Aug | 263 | 8,718 | 87.0 |
| 18-Aug | 313 | 9,031 | 90.2 |
| 19-Aug | 171 | 9,202 | 91.9 |
| 20-Aug | 101 | 9,303 | 92.9 |
| 21-Aug | 202 | 9,505 | 94.9 |
| 22-Aug | 64 | 9,569 | 95.5 |
| 23-Aug | 57 | 9,626 | 96.1 |
| 24-Aug | 101 | 9,727 | 97.1 |
| 25-Aug | 10 | 9,737 | 97.2 |
| 26-Aug | 87 | 9,824 | 98.1 |
| 27-Aug | 6 | 9,830 | 98.2 |
| 28-Aug | 30 | 9,860 | 98.5 |
| 29-Aug | 50 | 9,910 | 99.0 |
| 30-Aug | 32 | 9,942 | 99.3 |
| 31-Aug | 31 | 9,973 | 99.6 |
| 1-Sep | 10 | 9,983 | 99.7 |
| 2-Sep | 9 | 9,992 | 99.8 |
| 3-Sep | 4 | 9,996 | 99.8 |
| 4-Sep | 6 | 10,002 | 99.9 |
| 5-Sep | 3 | 10,005 | 99.9 |
| 6-Sep | 2 | 10,007 | 99.9 |
| 7-Sep | 6 | 10,013 | 100.0 |
| 8-Sep | 2 | 10,015 | 100.0 |
| 9-Sep | 0 | 10,015 | 100.0 |
| 10-Sep | Weir remov |  |  |


|  | Total | Wild |
| :--- | ---: | ---: |
| Holding below weir | 0 |  |
| Escapement to lake | 10,015 |  |
| Outlet spawners | 0 |  |
| otoltih samples | 0 |  |
| Broodstock | 0 |  |
| Spawners | 10,015 |  |

Appendix C. 13. Daily counts of adult sockeye salmon passing through the King Salmon Lake weir, 2012.

| Date | Count | Cumulative |  |
| :---: | :---: | :---: | :---: |
|  |  | Count | Percent |
| 7-Jul | Weir Installed |  |  |
| 8-Jul | 0 | 0 | 0.0 |
| 9-Jul | 0 | 0 | 0.0 |
| 10-Jul | 0 | 0 | 0.0 |
| 11-Jul | 0 | 0 | 0.0 |
| 12-Jul | 0 | 0 | 0.0 |
| 13-Jul | 1 | 1 | 0.0 |
| 14-Jul | 0 | 1 | 0.0 |
| 15-Jul | 0 | 1 | 0.0 |
| 16-Jul | 1 | 2 | 0.0 |
| 17-Jul | 0 | 2 | 0.0 |
| 18-Jul | 0 | 2 | 0.0 |
| 19-Jul | 0 | 2 | 0.0 |
| 20-Jul | 0 | 2 | 0.0 |
| 21-Jul | 0 | 2 | 0.0 |
| 22-Jul | 0 | 2 | 0.0 |
| 23-Jul | 113 | 115 | 2.1 |
| 24-Jul | 42 | 157 | 2.9 |
| 25-Jul | 145 | 302 | 5.6 |
| 26-Jul | 413 | 715 | 13.2 |
| 27-Jul | 366 | 1,081 | 20.0 |
| 28-Jul | 380 | 1,461 | 27.0 |
| 29-Jul | 0 | 1,461 | 27.0 |
| 30-Jul | 0 | 1,461 | 27.0 |
| 31-Jul | 0 | 1,461 | 27.0 |
| 1-Aug | 473 | 1,934 | 35.7 |
| 2-Aug | 192 | 2,126 | 39.3 |
| 3-Aug | 166 | 2,292 | 42.3 |
| 4-Aug | 281 | 2,573 | 47.5 |
| 5-Aug | 581 | 3,154 | 58.3 |
| 6-Aug | 249 | 3,403 | 62.9 |
| 7-Aug | 212 | 3,615 | 66.8 |
| 8-Aug | 194 | 3,809 | 70.4 |
| 9-Aug | 145 | 3,954 | 73.0 |
| 10-Aug | 0 | 3,954 | 73.0 |
| 11-Aug | 0 | 3,954 | 73.0 |
| 12-Aug | 0 | 3,954 | 73.0 |
| 13-Aug | 375 | 4,329 | 80.0 |
| 14-Aug | 577 | 4,906 | 90.6 |
| 15-Aug | 176 | 5,082 | 93.9 |
| 16-Aug | 38 | 5,120 | 94.6 |
| 17-Aug | 91 | 5,211 | 96.3 |
| 18-Aug | 67 | 5,278 | 97.5 |
| 19-Aug | 10 | 5,288 | 97.7 |
| 20-Aug | 23 | 5,311 | 98.1 |
| 21-Aug | 11 | 5,322 | 98.3 |
| 22-Aug | 8 | 5,330 | 98.5 |
| 23-Aug | 13 | 5,343 | 98.7 |
| 24-Aug | 22 | 5,365 | 99.1 |
| 25-Aug | 10 | 5,375 | 99.3 |
| 26-Aug | 38 | 5,413 | 100.0 |
| 27-Aug | Weir Removed |  |  |
| Total | 5,413 |  |  |
| 16-Sept | Helicopter survey | was 870 |  |

Appendix C. 14. Daily counts of adult sockeye salmon passing through the Kuthai Lake weir, 2012.


Appendix C. 15. Daily counts of large Chinook salmon carcasses at the Nakina River weir, 2012.


Appendix D. 1. All historic harvest and effort of salmon in the D111 gillnet fishery, 1960-2012.


Appendix D. 2. Annual harvest estimates of Taku River large Chinook salmon in the D111 fisheries, 2005-2012.
Estimates based on GSI for gillnet and sport, troll is CWT, PU is count by permit

| 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 | 23 | 671 | 668 | 8 | 1,370 |
| Averages |  |  |  |  |  |
| $05-11$ | 32 | 1,203 | 4,593 | 5 | 5,833 |

Appendix D. 3. Annual Chinook Salmon harvest in the Canadian fisheries in the Taku River, 1979-2012.

| Year | Commerical |  | Aboriginal |  | Test |  |  | $\begin{gathered} \hline \text { Rec } \\ \text { Large } \\ \hline \end{gathered}$ | Total All Large |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Large | nonlarge | Large | nonlarge | Large | nonlarg | released large |  |  |
| 1979 | 97 |  |  |  |  |  |  | 300 | 397 |
| 1980 | 225 |  | 85 |  |  |  |  | 300 | 610 |
| 1981 | 159 |  |  |  |  |  |  | 300 | 459 |
| 1982 | 54 |  |  |  |  |  |  | 300 | 354 |
| 1983 | 156 | 400 | 9 |  |  |  |  | 300 | 465 |
| 1984 | 294 | 221 | 0 |  |  |  |  | 300 | 594 |
| 1985 | 326 | 24 | 4 |  |  |  |  | 300 | 630 |
| 1986 | 275 | 77 | 10 |  |  |  |  | 300 | 585 |
| 1987 | 127 | 106 | 0 |  |  |  |  | 300 | 427 |
| 1988 | 555 | 186 | 27 |  | 72 |  |  | 300 | 954 |
| 1989 | 895 | 139 | 6 |  | 31 |  |  | 300 | 1,232 |
| 1990 | 1,258 | 128 | 0 |  | 48 |  |  | 300 | 1,606 |
| 1991 | 1,177 | 432 | 0 |  | 0 |  |  | 300 | 1,477 |
| 1992 | 1,445 | 147 | 121 |  | 0 |  |  | 300 | 1,866 |
| 1993 | 1,619 | 171 | 25 |  | 0 |  |  | 300 | 1,944 |
| 1994 | 2,065 | 235 | 119 |  | There was no | Canadian | ho test fishery | 300 | 2,484 |
| 1995 | 1,577 | 298 | 70 |  | There was no | Canadian | ho test fishery | 105 | 1,752 |
| 1996 | 3,331 | 144 | 63 |  | There was no | Canadian | ho test fishery | 105 | 3,499 |
| 1997 | 2,731 | 84 | 103 |  |  |  |  | 105 | 2,939 |
| 1998 | 1,107 | 227 | 60 |  | There was no | Canadian | ho test fishery | 105 | 1,272 |
| 1999 | 908 | 257 | 50 |  | 577 | 2 | 181 | 105 | 1,640 |
| 2000 | 1,576 | 87 | 50 |  | 1,312 | 87 | 439 | 105 | 3,043 |
| 2001 | 1,458 | 118 | 125 |  | 1,175 | 229 | 871 | 105 | 2,863 |
| 2002 | 1,561 | 291 | 37 |  | 1,311 | 355 | 1,132 | 105 | 3,014 |
| 2003 | 1,894 | 547 | 277 | 237 | 1,403 | 397 |  | 105 | 3,679 |
| 2004 | 2,082 | 335 | 277 | 116 | 1,489 | 294 |  | 105 | 3,953 |
| 2005 | 7,399 | 821 | 212 |  | 0 | 0 |  | 105 | 7,716 |
| 2006 | 7,377 | 207 | 222 |  | 630 | 9 |  | 105 | 8,334 |
| 2007 | 874 | 426 | 167 | 16 | 1,396 | 302 |  | 105 | 2,542 |
| 2008 | 913 | 330 | 1 |  | 1,399 | 139 |  | 105 | 2,418 |
| 2009 | 6,759 | 1,137 | 172 | 0 | 0 | 0 |  | 105 | 7,036 |
| 2010 | 5,238 | 700 | 126 | 0 | 0 | 0 |  | 105 | 5,469 |
| 2011 | 2,342 | 514 | 150 | 21 | 680 | 134 |  | 105 | 3,277 |
| 2012 | 1,930 | 479 | 67 | 14 | 863 | 114 |  | 105 | 2,965 |
| Averages |  |  |  |  |  |  |  |  |  |
| 85-11 | 2,180 | 303 | 92 |  |  |  |  | 177 | 2,876 |
| 02-11 | 3,644 | 531 | 164 | 65 | 831 | 163 | 1,132 | 105 | 4,744 |

Appendix D. 4. Taku River large Chinook salmon run size, 1979-2012.
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 18-2

| Year | Above Border MR |  | Above Border |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Spawning |  | Confidence Intervals |  | Canadian <br> Harvest ${ }^{\text {a }}$ | Run <br> Estimate | U.S. <br> Harvest | Terminal Run |
|  | Escapement | Method | Lower | Upper |  |  |  |  |
| 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 | 1,370 | 23,873 |
| Averages |  |  |  |  |  |  |  |  |
| 95-11 | 42,646 |  |  |  | 3,791 | 46,437 | 5,025 | 51,461 |
| 02-11 | 36,775 |  |  |  | 4,744 | 41,519 | 5,058 | 46,576 |

[^2]Appendix D. 5. Aerial survey index escapement counts of large (3-ocean and older) Taku River Chinook salmon, 1975-2012.

| Year | Kowatua | Tatsamenie | Dudidontu | Tseta | Nakina | Nahlin | Total Index Count without Tseta |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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 |
| $1984{ }^{\text {ab }}$ | 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 |
| Averages |  |  |  |  |  |  |  |
| 85-11 | 770 | 1,027 | 601 | 358 | 3,696 | 1,562 | 7,520 |
| 02-11 | 709 | 944 | 485 | 305 | 2,182 | 943 | 5,044 |

[^3]Appendix D. 6. 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, 1967-2012.

| Year | D111 gillnet harvest |  |  |  | PU Taku harvest |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { All } \\ \text { D111 } \end{gathered}$ | D11 without snet for stock comp |  |  | All Taku | Wild Taku | EnhancedTaku |
|  |  | harvest | Wild Taku | EnhancedTaku |  |  |  |
| 1967 | 17,735 | 15,282 |  |  | 103 |  |  |
| 1968 | 19,501 | 17,721 |  |  | 41 |  |  |
| 1969 | 41,169 | 40,053 |  |  | 122 |  |  |
| 1970 | 50,922 | 49,951 |  |  | 304 |  |  |
| 1971 | 66,181 | 62,593 |  |  | 512 |  |  |
| 1972 | 80,404 | 76,478 |  |  | 554 |  |  |
| 1973 | 85,317 | 81,149 |  |  | 1,227 |  |  |
| 1974 | 38,670 | 33,934 |  |  | 1,431 |  |  |
| 1975 | 32,513 | 32,271 |  |  | 170 |  |  |
| 1976 | 61,749 | 54,456 |  |  | 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 |  |  |
| 1986 | 73,061 | 72,713 |  |  |  |  |  |
| 1987 | 75,212 | 76,377 |  |  |  |  |  |
| 1988 | 38,923 | 38,885 |  |  |  |  |  |
| 1989 | 74,019 | 73,991 |  |  | 562 |  |  |
| 1990 | 126,884 | 126,876 |  |  | 793 |  |  |
| 1991 | 109,877 | 111,002 |  |  | 800 |  |  |
| 1992 | 135,411 | 132,669 |  |  | 1,217 |  |  |
| 1993 | 171,556 | 171,373 |  |  | 1,201 |  |  |
| 1994 | 105,861 | 105,758 |  |  | 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 |
| Averag |  |  |  |  |  |  |  |
| 95-11 | 135,619 | 126,113 | 86,891 | 2,924 | 1,087 | 1,052 | 34 |
| 02-11 | 130,056 | 115,076 | 70,070 | 2,700 | 1,019 | 982 | 37 |

Appendix D. 7. Stock proportions and harvest of sockeye salmon in the traditional Alaska District 111 commercial drift gillnet fishery, 1983-2012.

| Data based on analysis of scale patterns, otolith marks, and incidence of brain parasites 1983-2011; starting 2012 based on gsi. Does not include harvest inside Port Snettisham |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Taku Lakes |  |  | Tatsamenie |  | Little Trapper <br> Enhanced | Taku |  | Other | U.S. <br> Enhanced | Stikine <br> Enhanced |
| Week | Other | Mainstem | Wild | Enhanced |  | Wild | Total |  |  |  |
| 1983 |  |  |  |  |  | 0.755 | 0.755 | 0.245 |  |  |
| 1984 |  |  |  |  |  | 0.758 | 0.758 | 0.242 |  |  |
| 1985 |  |  |  |  |  | 0.838 | 0.838 | 0.162 |  |  |
| 1986 | 0.328 | 0.303 | 0.204 |  |  | 0.834 | 0.834 | 0.166 |  |  |
| 1987 | 0.312 | 0.376 | 0.031 |  |  | 0.720 | 0.720 | 0.280 |  |  |
| 1988 | 0.276 | 0.305 | 0.082 |  |  | 0.663 | 0.663 | 0.337 |  |  |
| $1989{ }^{\text {a }}$ | 0.077 |  | 0 |  |  | 0.849 | 0.849 | 0.152 |  |  |
| 1990 | 0.232 | 0.336 | 0.286 |  |  | 0.855 | 0.855 | 0.145 |  |  |
| 1991 | 0.337 | 0.373 | 0.232 |  |  | 0.941 | 0.941 | 0.059 |  |  |
| 1992 | 0.269 | 0.445 | 0.191 |  |  | 0.904 | 0.904 | 0.096 |  |  |
| 1993 | 0.391 | 0.308 | 0.123 |  |  | 0.822 | 0.822 | 0.178 |  |  |
| 1994 | 0.466 | 0.361 | 0.091 |  |  | 0.917 | 0.917 | 0.058 | 0.025 |  |
| 1995 | 0.260 | 0.428 | 0.153 | 0.029 | 0.010 | 0.841 | 0.880 | 0.093 | 0.026 |  |
| 1996 | 0.186 | 0.499 | 0.232 | 0.014 | 0.010 | 0.917 | 0.941 | 0.045 | 0.014 |  |
| 1997 | 0.237 | 0.282 | 0.286 | 0.011 | 0.011 | 0.805 | 0.826 | 0.053 | 0.120 |  |
| 1998 | 0.245 | 0.209 | 0.245 | 0.004 | 0.008 | 0.699 | 0.710 | 0.033 | 0.257 |  |
| 1999 | 0.436 | 0.235 | 0.119 | 0.005 | 0.003 | 0.790 | 0.797 | 0.072 | 0.131 |  |
| 2000 | 0.412 | 0.211 | 0.151 | 0.008 | 0.002 | 0.773 | 0.783 | 0.058 | 0.160 |  |
| 2001 | 0.206 | 0.268 | 0.207 | 0.031 | 0.000 | 0.682 | 0.713 | 0.046 | 0.241 |  |
| 2002 | 0.352 | 0.173 | 0.126 | 0.004 | 0.000 | 0.650 | 0.654 | 0.047 | 0.299 |  |
| 2003 | 0.328 | 0.398 | 0.033 | 0.004 | 0.000 | 0.759 | 0.763 | 0.056 | 0.181 |  |
| 2004 | 0.148 | 0.233 | 0.042 | 0.004 | 0.000 | 0.423 | 0.427 | 0.051 | 0.522 |  |
| 2005 | 0.125 | 0.456 | 0.040 | 0.008 | 0.000 | 0.621 | 0.629 | 0.145 | 0.226 |  |
| 2006 | 0.110 | 0.361 | 0.159 | 0.022 | 0.000 | 0.631 | 0.653 | 0.060 | 0.288 |  |
| 2007 | 0.124 | 0.355 | 0.089 | 0.034 | 0.000 | 0.568 | 0.603 | 0.106 | 0.291 |  |
| 2008 | 0.119 | 0.267 | 0.154 | 0.100 | 0.000 | 0.540 | 0.640 | 0.082 | 0.278 |  |
| 2009 | 0.114 | 0.343 | 0.109 | 0.004 | 0.000 | 0.566 | 0.570 | 0.140 | 0.288 | 0.002 |
| 2010 | 0.046 | 0.523 | 0.155 | 0.012 | 0.002 | 0.724 | 0.738 | 0.151 | 0.109 | 0.001 |
| 2011 | 0.118 | 0.397 | 0.135 | 0.040 | 0.016 | 0.651 | 0.707 | 0.045 | 0.246 | 0.003 |
| 2012 | 0.122 | 0.242 | 0.000 | 0.028 | 0.005 | 0.364 | 0.396 | 0.090 | 0.512 | 0.002 |
| Averages |  |  |  |  |  |  |  |  |  |  |
| 86-11 | 0.240 | 0.338 | 0.147 |  |  | 0.736 | 0.751 |  | 0.206 |  |
| 02-11 | 0.158 | 0.351 | 0.104 | 0.023 | 0.002 | 0.613 | 0.638 |  | 0.273 | 0.002 |
| 1983 |  |  |  |  |  | 23,460 | 23,460 |  |  |  |
| 1984 |  |  |  |  |  | 57,619 | 57,619 |  |  |  |
| 1985 |  |  |  |  |  | 73,367 | 73,367 |  |  |  |
| 1986 | 23,816 | 21,999 | 14,829 |  |  | 60,644 | 60,644 |  |  |  |
| 1987 | 23,851 | 28,724 | 2,388 |  |  | 54,963 | 54,963 |  |  |  |
| 1988 | 10,741 | 11,854 | 3,191 |  |  | 25,785 | 25,785 |  |  |  |
| $1989{ }^{\text {a }}$ |  |  |  |  |  | 62,804 | 62,804 |  |  |  |
| 1990 | 29,489 | 42,673 | 36,330 |  |  | 108,492 | 108,492 |  |  |  |
| 1991 | 37,359 | 41,376 | 25,736 |  |  | 104,471 | 104,471 |  |  |  |
| 1992 | 35,625 | 59,004 | 25,329 |  |  | 119,959 | 119,959 |  |  |  |
| 1993 | 66,952 | 52,820 | 21,116 |  |  | 140,888 | 140,888 |  |  |  |
| 1994 | 49,234 | 38,142 | 9,576 |  |  | 96,952 | 96,952 |  | 2,634 |  |
| 1995 | 26,893 | 44,271 | 15,765 | 3,049 | 1,017 | 86,929 | 90,994 |  | 2,727 |  |
| 1996 | 36,917 | 98,876 | 45,983 | 2,849 | 1,913 | 181,776 | 186,538 |  | 2,838 |  |
| 1997 | 22,389 | 26,621 | 27,033 | 1,003 | 1,028 | 76,043 | 78,074 |  | 11,358 |  |
| 1998 | 16,775 | 14,306 | 16,743 | 246 | 560 | 47,824 | 48,630 |  | 17,588 |  |
| 1999 | 33,780 | 18,231 | 9,194 | 358 | 241 | 61,205 | 61,804 |  | 10,155 |  |
| 2000 | 68,500 | 35,025 | 25,042 | 1,285 | 276 | 128,567 | 130,128 |  | 26,528 |  |
| 2001 | 58,736 | 76,418 | 58,937 | 8,880 | 0 | 194,091 | 202,971 |  | 68,649 |  |
| 2002 | 61,922 | 30,397 | 22,141 | 651 | 0 | 114,460 | 115,111 |  | 52,708 |  |
| 2003 | 58,280 | 70,801 | 5,876 | 767 | 0 | 134,957 | 135,724 |  | 32,196 |  |
| 2004 | 26,314 | 41,366 | 7,505 | 676 | 0 | 75,186 | 75,862 |  | 92,810 |  |
| 2005 | 8,909 | 32,591 | 2,860 | 579 | 0 | 44,360 | 44,939 |  | 16,161 |  |
| 2006 | 10,995 | 35,993 | 15,825 | 2,210 | 0 | 62,814 | 65,024 |  | 28,659 |  |
| 2007 | 13,311 | 38,084 | 9,484 | 3,684 | 0 | 60,879 | 64,563 |  | 31,213 |  |
| 2008 | 13,833 | 31,170 | 17,999 | 11,680 | 0 | 63,002 | 74,682 |  | 32,467 |  |
| 2009 | 7,050 | 21,275 | 6,796 | 240 | 0 | 35,121 | 35,361 |  | 17,888 | 148 |
| 2010 | 2,833 | 32,407 | 9,597 | 760 | 150 | 44,837 | 45,747 |  | 6,759 | 79 |
| $2011{ }^{\text {a }}$ | 11,799 | 39,743 | 13,548 | 4,047 | 1,557 | 65,090 | 70,694 |  | 24,595 | 288 |
| 2012 | 15,221 | 30,189 | 0 | 3,453 | 587 | 45,410 | 49,449 | 11,210 | 63,963 | 208 |
| Average ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |
| 86-11 | 30,252 | 39,367 | 17,953 |  |  | 86,619 | 88,531 |  | 26,552 |  |
| 02-11 | 21,525 | 37,383 | 11,163 | 2,529 | 171 | 70,070 | 72,771 |  | 33,546 | 172 |

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

Appendix D. 8. Proportion of wild Taku River sockeye salmon in the Alaskan District 111 commercial drift gillnet harvest by week, 1983-2012.

| Week |  |  |  |  |  |  |  |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 |  |
| 1983 |  | 0.996 | 0.842 | 0.819 | 0.663 | 0.527 | 0.836 | 0.534 | 0.719 | 0.759 | 0.755 |
| 1984 | 0.970 | 0.956 | 0.843 | 0.670 | 0.588 | 0.712 | 0.728 | 0.809 | 0.726 |  | 0.758 |
| 1985 | 0.999 | 0.986 | 0.928 | 0.974 | 0.868 | 0.706 | 0.737 | 0.826 | 0.801 |  | 0.838 |
| 1986 | 0.938 | 0.953 | 0.873 | 0.880 | 0.852 | 0.777 | 0.851 | 0.757 | 0.893 | 0.739 | 0.834 |
| 1987 |  | 0.982 | 0.901 | 0.884 | 0.948 | 0.414 | 0.619 | 0.689 | 0.841 | 0.731 | 0.720 |
| 1988 |  | 0.964 | 0.886 | 0.889 | 0.510 | 0.643 | 0.677 | 0.528 | 0.478 | 0.346 | 0.663 |
| 1989 | 0.943 | 0.989 | 0.979 | 0.852 | 0.835 | 0.641 | 0.681 | 0.919 | 0.676 |  | 0.848 |
| 1990 | 0.874 | 0.935 | 0.904 | 0.773 | 0.782 | 0.863 | 0.943 | 0.939 | 0.878 | 0.862 | 0.855 |
| 1991 | 0.988 | 0.979 | 0.953 | 0.979 | 0.951 | 0.933 | 0.936 | 0.890 | 0.885 | 0.875 | 0.941 |
| 1992 |  | 0.978 | 0.985 | 0.956 | 0.916 | 0.943 | 0.893 | 0.858 | 0.766 | 0.766 | 0.904 |
| 1993 |  | 0.961 | 0.901 | 0.837 | 0.856 | 0.781 | 0.790 | 0.829 | 0.738 | 0.706 | 0.822 |
| 1994 |  | 1.000 | 0.981 | 0.973 | 0.967 | 0.870 | 0.835 | 0.938 | 0.804 | 0.901 | 0.917 |
| 1995 | 0.942 | 0.889 | 0.903 | 0.858 | 0.872 | 0.868 | 0.761 | 0.759 | 0.705 | 0.740 | 0.841 |
| 1996 | 1.000 | 0.998 | 0.909 | 0.974 | 0.950 | 0.991 | 0.914 | 0.945 | 0.879 | 0.804 | 0.953 |
| 1997 | 0.992 | 0.970 | 0.910 | 0.926 | 0.951 | 0.939 | 0.939 | 0.925 | 0.872 | 0.906 | 0.938 |
| 1998 |  | 0.964 | 0.974 | 0.978 | 0.971 | 0.949 | 0.948 | 0.942 | 0.997 | 0.857 | 0.955 |
| 1999 |  | 0.966 | 0.988 | 0.953 | 0.934 | 0.917 | 0.878 | 0.833 | 0.732 | 0.665 | 0.917 |
| 2000 |  | 0.973 | 0.962 | 0.958 | 0.929 | 0.898 | 0.872 | 0.907 | 0.908 | 0.858 | 0.931 |
| 2001 | 0.995 | 0.998 | 0.948 | 0.888 | 0.908 | 0.930 | 0.961 | 0.945 | 0.858 | 0.858 | 0.936 |
| 2002 | 0.986 | 0.989 | 0.993 | 0.970 | 0.872 | 0.946 | 0.829 | 0.880 | 0.851 | 0.851 | 0.933 |
| 2003 | 1.000 | 0.987 | 0.961 | 0.994 | 0.970 | 0.929 | 0.883 | 0.795 | 0.236 | 0.236 | 0.931 |
| 2004 |  | 0.968 | 0.950 | 0.930 | 0.939 | 0.884 | 0.731 | 0.799 | 0.909 | 0.891 | 0.891 |
| 2005 | 0.973 | 0.973 | 0.953 | 0.947 | 0.932 | 0.924 | 0.881 | 0.885 | 0.786 | 0.767 | 0.905 |
| 2006 | 0.957 | 0.957 | 0.912 | 0.856 | 0.896 | 0.819 | 0.802 | 0.842 | 0.970 | 0.970 | 0.914 |
| 2007 | 1.000 | 0.992 | 0.934 | 0.807 | 0.716 | 0.821 | 0.879 | 0.824 | 0.812 | 0.786 | 0.925 |
| 2008 | 0.975 | 0.900 | 0.695 | 0.632 | 0.589 | 0.470 | 0.424 | 0.488 | 0.489 | 0.489 | 0.868 |
| 2009 | 0.902 | 0.902 | 0.715 | 0.683 | 0.552 | 0.542 | 0.528 | 0.416 | 0.382 | 0.382 | 0.566 |
| 2010 |  | 0.964 | 0.955 | 0.960 | 0.737 | 0.637 | 0.754 | 0.636 | 0.529 | 0.764 | 0.723 |
| 2011 |  | 0.988 | 0.943 | 0.797 | 0.766 | 0.699 | 0.683 | 0.606 | 0.365 | 0.228 | 0.651 |
| 2012 | 0.938 | 0.720 | 0.909 | 0.829 | 0.634 | 0.321 | 0.389 | 0.085 | 0.298 | 0.298 | 0.298 |
| Average |  |  |  |  |  |  |  |  |  |  |  |
| 83-11 |  | 0.968 | 0.917 | 0.883 | 0.835 | 0.792 | 0.800 | 0.791 | 0.741 | 0.721 | 0.849 |
| 02-11 |  | 0.962 | 0.901 | 0.858 | 0.797 | 0.767 | 0.739 | 0.717 | 0.633 | 0.637 | 0.831 |

Appendix D. 9. Annual sockeye salmon harvest estimates of wild and enhanced fish in the Canadian fisheries in the Taku River, 1979-2012.

| Year | All harvest |  |  |  |  | Wild |  |  | Enhanced |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Commercial |  | Aborginal | Test | Test released | Commercial | Aboriginal | Test | Commercial | Aboriginal | Test |
|  | All harvest | Taku |  |  |  |  |  |  |  |  |  |
| 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 |  | 159 | 376 |  | 14,988 | 143 | 337 | 1,726 | 16 | 39 |
| 2008 | 19,284 |  | 215 | 10 | 32 | 17,241 | 192 | 9 | 2,043 | 23 | 1 |
| 2009 | 10,980 |  | 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 |
| Averages |  |  |  |  |  |  |  |  |  |  |  |
| 86-11 | 24,158 |  | 188 |  |  | 23,621 | 184 |  | 812 |  |  |
| 03-11 | 21,795 |  | 158 | 252 | 130 | 20,989 | 151 | 241 | 790 | 7 | 11 |

Appendix D. 10. Annual sockeye salmon stock proportions and harvest by stock in the Canadian commercial fishery on the Taku River, 1986-2012.

| Year | Taku <br> Lakes | Mainstem | Tatsamenie |  | Little Trapper <br> Enhance | Taku |  | Stikine <br> Enhance | USEnhance | Historical 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 |
| $1989{ }^{\text {a }}$ | 0.053 | a | 0.203 |  |  | 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 |  |
| 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 |  |  |  |  |
| Averages ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |
| 86-11 | 0.419 | 0.378 | 0.166 | 0.028 | 0.006 | 0.978 | 0.033 |  |  | 0.146 |  | 0.273 |
| 03-11 | 0.407 | 0.386 | 0.166 | 0.037 | 0.002 | 0.959 | 0.039 | 0.005 |  | 0.166 | 0.031 | 0.214 |
| 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 |
| $1989{ }^{\text {a }}$ | 990 |  | 3,763 |  |  | 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 | 3,950 | 12,235 | 3,369 | 334 | 290 | 19,554 | 624 | 31 |  | 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 |  |  |  |  |
| Averages ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |
| 86-11 |  | 9,233 | 4,074 |  | 139 | 24,002 | 759 |  |  | 3,709 |  | 6,747 |
| 02-11 |  | 8,476 | 3,696 | 816 | 51 | 19,916 | 867 | 98 |  | 3,122 | 716 | 3,907 |

Appendix D. 11. Annual sockeye salmon weir counts, escapements, and samples at the Tatsamenie weir, 1984-2012.

| Ototlith samples are a proportion of the broodstock samples. |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Weir <br> Count | Actual <br> Spawners | Spawning Escapement |  | Broodstock |  |  |  |  |  |
|  |  |  |  |  | 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 | 6,082 | 2,302 | 140 | 53 | 193 | 2,033 | 770 | 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 |
| Averages |  |  |  |  |  |  |  |  |  |  |
| 02-11 | 7,140 | 5,551 | 4,338 | 1,213 | 279 | 89 | 369 | 1,178 | 411 | 1,589 |

Appendix D. 12. Annual sockeye salmon weir counts, escapements, and samples at the Little Trapper weir, 1983-2012.

| Broodstock estimate is based on commercial ratio with tats weir data |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Weir <br> Count | Actual Spawners | 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 | 5,296 | 187 | 0 |  |  |
| 1997 | 5,924 | 5,924 | 5,551 | 373 | 0 |  |  |
| 1998 | 8,717 | 8,717 | 7,698 | 1019 | 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 | 9,532 | 483 |  |  |  |
| Averages |  |  |  |  |  |  |  |
| 83-11 | 11,887 | 11,564 |  |  |  |  |  |
| 02-11 | 11,378 | 11,115 |  |  |  |  |  |

Appendix D. 13. Taku River sockeye salmon run size, 1984-2012.


Appendix D. 14. The terminal run reconstruction of Taku wild and enhanced sockeye salmon, 1984-2012.

| Year | Wild Total Run |  |  |  | Enhanced Total Run |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Canadian harvest | Escape | U.S. <br> harvest | Terminal Run | Canadian harvest | Escape | U.S. harvest | Terminal <br> Run |
| 1984 | 27,292 | 113,962 | 57,619 | 198,873 |  |  |  |  |
| 1985 | 14,411 | 109,563 | 74,287 | 198,261 |  |  |  |  |
| 1986 | 14,939 | 100,106 | 60,644 | 175,689 |  |  |  |  |
| 1987 | 13,887 | 82,136 | 54,963 | 150,986 |  |  |  |  |
| 1988 | 12,967 | 79,674 | 25,785 | 118,427 |  |  |  |  |
| 1989 | 18,805 | 95,263 | 63,366 | 177,434 |  |  |  |  |
| 1990 | 21,474 | 96,099 | 109,285 | 226,858 |  |  |  |  |
| 1991 | 25,380 | 129,493 | 105,271 | 260,143 |  |  |  |  |
| 1992 | 29,862 | 137,514 | 121,176 | 288,551 |  |  |  |  |
| 1993 | 33,523 | 108,625 | 142,089 | 284,236 |  |  |  |  |
| 1994 | 29,001 | 102,579 | 98,063 | 229,642 |  |  |  |  |
| 1995 | 31,374 | 112,048 | 87,878 | 231,300 | 1,337 | 1,691 | 4,106 | 7,134 |
| 1996 | 41,287 | 91,994 | 182,944 | 316,225 | 738 | 632 | 4,783 | 6,153 |
| 1997 | 23,685 | 70,481 | 77,067 | 171,233 | 667 | 605 | 2,060 | 3,332 |
| 1998 | 18,681 | 69,560 | 48,989 | 137,230 | 596 | 1,155 | 843 | 2,594 |
| 1999 | 20,847 | 92,473 | 62,441 | 175,761 | 304 | 82 | 617 | 1,003 |
| 2000 | 28,025 | 86,225 | 129,683 | 243,933 | 443 | 1,000 | 1,579 | 3,022 |
| 2001 | 46,231 | 140,375 | 195,496 | 382,101 | 1,886 | 3,753 | 8,938 | 14,577 |
| 2002 | 31,676 | 102,848 | 115,747 | 250,271 | 50 | 659 | 653 | 1,362 |
| 2003 | 32,755 | 159,026 | 136,165 | 327,946 | 269 | 1,340 | 777 | 2,386 |
| 2004 | 20,091 | 105,974 | 76,321 | 202,386 | 268 | 714 | 692 | 1,673 |
| 2005 | 21,840 | 119,384 | 45,496 | 186,720 | 262 | 669 | 593 | 1,524 |
| 2006 | 20,628 | 143,660 | 63,587 | 227,875 | 818 | 2,491 | 2,241 | 5,550 |
| 2007 | 15,468 | 84,691 | 61,387 | 161,545 | 1,781 | 3,072 | 3,742 | 8,596 |
| 2008 | 17,442 | 63,892 | 63,905 | 145,239 | 2,067 | 4,167 | 11,787 | 18,021 |
| 2009 | 11,152 | 71,489 | 35,984 | 118,625 | 108 | 348 | 396 | 852 |
| 2010 | 20,019 | 87,364 | 45,824 | 153,207 | 642 | 1,003 | 943 | 2,588 |
| 2011 | 22,740 | 113,022 | 66,113 | 201,875 | 1,803 | 2,362 | 5,691 | 9,856 |
| 2012 | 26,987 | 120,038 | 46,559 | 193,584 | 3,126 | 6,725 | 4,177 | 14,029 |
| Averages |  |  |  |  |  |  |  |  |
| 84-11 | 23,767 | 102,483 | 85,985 | 212,235 |  |  |  |  |
| 02-11 | 21,381 | 105,135 | 71,053 | 197,569 | 807 | 1,683 | 2,751 | 5,241 |

Appendix D. 15. Annual sockeye salmon escapement estimates of Taku River and Port Snettisham sockeye salmon stocks, 1979-2012.

| Spawners equals escapement to the weir minus fish collected for brood stock. |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Little Trapper |  | Little Tatsamenie |  | Tatsamenie |  | King Salmon <br> Weir | Kuthai Lake Weir | Nahlin River Weir | Crescent Lake |  | Speel Lake |  |
|  | Count | Escape. | Count | Escape. | Count | Escape. |  |  |  | Count | Escape. | Count | Escape. |
| 1980 |  |  |  |  |  |  |  | 1,658 |  |  |  |  |  |
| 1981 |  |  |  |  |  |  |  | 2,299 |  |  |  |  |  |
| 1982 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $1983{ }^{\text {a }}$ | 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 |
| $1985^{\text {a }}$ | 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 |
| $1987^{\text {a }}$ | 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 | 1,578 |  | na | na | 7,813 |  |
| 2005 | 16,009 | 16,009 |  |  | 3,372 | 2,445 | 1,046 | 6,004 |  | na | na | 7,538 |  |
| 2006 | 25,265 | 24,557 |  |  | 22,475 | 19,820 | 2,177 | 1,015 |  | na | na | 4,163 |  |
| 2007 | 7,153 | 6,340 |  |  | 11,187 | 8,384 | 5 | 204 |  | na | na | 3,099 |  |
| 2008 | 3,831 | 2,791 |  |  | 8,976 | 6,176 | 888 | 1,547 |  | na | na | 1,763 |  |
| 2009 | 5,552 | 5,443 |  |  | 2,032 | 1,292 | 55 | 1,442 |  | na | na | 3,689 | 3,689 |
| 2010 | 3,347 | 3,387 |  |  | 3,513 | 2,113 | 2,977 | 1,626 |  | na | na | 5,570 | 5,570 |
| 2011 | 3,809 | 3,809 |  |  | 7,880 | 6,580 | 2,899 | 811 |  | na | na | 4,777 | 4,777 |
| 2012 | 10,015 | 10,015 |  |  | 15,605 | 14,305 | 5,413 | 182 |  | na | na | 5,681 | 5,681 |
| Averages |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 83-11 | 11,887 | 11,564 |  |  | 7,892 | 5,872 | 1,882 | 3,696 |  |  |  | 7,911 |  |
| 02-11 | 11,378 | 11,115 |  |  | 7,140 | 5,551 | 1,882 | 2,969 |  |  |  | 5,044 |  |

Appendix D. 16. Historical Taku River coho salmon harvested in D111 terminal fisheries, 1992-2012.

| Sportfish estimate is based on all landings made in Juneau (not just D11) |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | D11 Gillnet |  | Juneau Sport Fish |  | PU | Total |
|  | Harvest | SE | Harvest | SE |  |  |
| 1992 | 74,226 | 23,030 | 431 | 380 | 88 | 74,745 |
| 1993 | 32,456 | 8,515 | 3,222 | 3,048 | 25 | 35,703 |
| 1994 | 82,181 | 14,117 | 19,018 | 8,674 | 93 | \#\#\#\#\#\# |
| 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 |
| 02-11 | 23,260 |  | 5,678 |  | 139 | 29,076 |


| Appe <br> Year | Historical coh 1987-2012. |  |  | in the CAboriginal | adianTest | Test released |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |
|  | Total | Before SW34 | After SW33 |  |  |  |
| 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 |  |
| Averages |  |  |  |  |  |  |
| 83-12 | 5,317 |  |  | 167 |  |  |
| 02-13 | 5,930 |  |  | 248 | 2,397 |  |

Appendix D. 18. Historic Taku River coho salmon terminal run size, 1987-2012.
The run estimates do not include spawningescapements below the U.S./Canada border. Estimates are expanded if mark-recapture activities terminate prior to run completion.

| Year | Above Border M-R |  |  |  | Expanded <br> Estimate | Canadian Harvest | Escape. | U.S. <br> Harvest | Terminal Run | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Run | End | Expansion |  |  |  |  |  |  | xploitation |
|  | Estimate | Date | Method | Factor |  |  |  |  |  | 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 | 50,557 | 5-Sep | District 111-32 CPUE | 1.79 | 90,394 | 5,541 | 84,853 | 74,745 | 165,139 | 0.486 |
| 1993 | 62,076 | 11-Sep | District 111-32 CPUE | 1.84 | 114,091 | 4,634 | 109,457 | 35,703 | 149,794 | 0.269 |
| 1994 | 98,643 | 24-Sep | District 111-32 CPUE | 1.13 | 111,036 | 14,693 | 96,343 | 101,292 | 212,328 | 0.546 |
| 1995 | 61,738 | 30-Sep | District 111-32 CPUE | 1.12 | 69,448 | 13,738 | 55,710 | 59,240 | 128,688 | 0.567 |
| 1996 | 44,172 | 28-Sep | District 111-32 CPUE | 1.12 | 49,687 | 5,052 | 44,635 | 17,019 | 66,706 | 0.331 |
| 1997 | 35,035 | 27-Sep | District 111-32 CPUE | 1.00 | 35,035 | 2,690 | 32,345 | 6,479 | 41,514 | 0.221 |
| 1998 | 49,290 | 26-Sep | District 111-32 CPUE | 1.35 | 66,472 | 5,090 | 61,382 | 17,042 | 83,514 | 0.265 |
| 1999 | 59,052 | 3-Oct | Troll CPUE | 1.12 | 66,343 | 5,575 | 60,768 | 9,009 | 75,352 | 0.194 |
| 2000 | 70,147 | 2-Oct | no expansion | 1.00 | 70,147 | 5,447 | 64,700 | 11,520 | 81,667 | 0.208 |
| 2001 | 107,493 | 5-Oct | no expansion | 1.00 | 107,493 | 3,099 | 104,394 | 11,739 | 119,232 | 0.124 |
| 2002 | 223,162 | 7-Oct | no expansion | 1.00 | 223,162 | 3,802 | 219,360 | 33,238 | 256,400 | 0.144 |
| 2003 | 186,755 | 8-Oct | no expansion | 1.00 | 186,755 | 3,643 | 183,112 | 25,139 | 211,894 | 0.136 |
| 2004 | 139,011 | 8-Oct | no expansion | 1.00 | 139,011 | 9,684 | 129,327 | 25,898 | 164,909 | 0.216 |
| 2005 | 143,817 | 8-Oct | no expansion | 1.00 | 143,817 | 8,259 | 135,558 | 21,718 | 165,535 | 0.181 |
| 2006 | 134,053 | 8-Oct | no expansion | 1.00 | 134,053 | 11,669 | 122,384 | 36,170 | 170,223 | 0.281 |
| 2007 | 82,319 | 8-Oct | no expansion | 1.00 | 82,319 | 8,073 | 74,246 | 16,617 | 98,936 | 0.250 |
| 2008 | 99,199 | 8-Oct | no expansion | 1.00 | 99,199 | 3,973 | 95,226 | 24,390 | 123,589 | 0.229 |
| 2009 | 113,716 | 8-Oct | no expansion | 1.00 | 113,716 | 9,766 | 103,950 | 42,946 | 156,662 | 0.336 |
| 2010 | 141,238 | 8-Oct | no expansion | 1.00 | 141,238 | 14,408 | 126,830 | 55,254 | 196,492 | 0.355 |
| 2011 | 83,349 | 9-Oct | no expansion | 1.00 | 83,349 | 12,478 | 70,871 | 9,393 | 92,742 | 0.236 |
| 2012 | 61,797 | $15-\mathrm{Sep}$ | CYI run timing | 1.37 | 84,847 | 14,072 | 70,775 | 11,554 | 96,401 | 0.266 |
| Averages |  |  |  |  |  |  |  |  |  |  |
| 87-11 | 93,652 |  |  | 1.12 | 100,059 | 6,985 | 93,074 | 31,728 | 138,066 | 0.28 |
| 02-11 | 134,662 |  |  | 1.00 | 134,662 | 8,576 | 126,086 | 29,076 | 163,738 | 0.24 |

Appendix D. 19. Escapement counts of Taku River coho salmon. Counts are for age-. 1 fish and do not include jacks, 1984-2012.

| Year | Yehring Creek |  | Sockeye Creek Aerial | Johnson Creek Ar/Foot | Fish Creek Aerial | Flannigan Slough Aerial | Tatsamení River Weir | Hacket River Weir | Dudidontu River Aerial | Upper Nahlin River |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Weir | Aerial |  |  |  |  |  |  |  | Aerial | Weir |
| 1984 |  | 2,900 | 275 | 235 | 700 | 1,480 |  |  |  |  |  |
| 1985 |  | 560 | 740 | 150 | 1,000 | 2,320 | 201 | 1,031 |  |  |  |
| 1986 | 2,116 ${ }^{\text {a }}$ | 1,200 | 174 | 70 | 53 | 1,095 | 344 | 2,723 | 108 | 318 |  |
| 1987 | $1,627^{\text {a }}$ | 565 | 980 | 150 | 250 | 2,100 | 173 | 1,715 | 276 | 165 |  |
| 1988 | 1,423 | 658 | 585 | 500 | 1,215 | 1,308 | $663{ }^{\text {a }}$ | 1,260 | 367 | 694 | 1,322 |
| 1989 | 1,570 | 600 | 400 | 400 | 235 | 1,670 | $712^{\text {a }}$ |  | 115 | 322 |  |
| 1990 | 2,522 | 220 | 193 |  | 425 | 414 | $669{ }^{\text {a }}$ |  | 25 | 256 |  |
| 1991 |  | 475 | 399 | 120 | 1,378 | 1,348 | 1,101 |  | 458 | 176 |  |
| 1992 |  | 1,267 | 594 | 654 | 478 | 1,288 | 730 |  |  |  | 970 ${ }^{\text {a }}$ |
| 1993 |  | 250 | 130 | 90 | 380 | 70 | 88 |  |  |  | 326 |
| 1994 |  | 500 | 60 | 450 | 200 | 50 | 168 |  |  |  | 2,112 |
| 1995 |  | 70 | 230 | 170 | 132 | 421 | 62 |  |  |  |  |
| 1996 |  | 35 | 28 | 50 | 250 | 278 | 21 |  |  |  |  |
| 1997 |  | 500 | 10 | 550 | 600 |  |  |  |  |  |  |
| 1998 |  | 280 |  | 300 | 450 |  |  |  |  |  |  |
| 1999 |  | 1,050 |  |  | 400 |  |  |  |  |  |  |
| 2000 |  | 450 |  | 500 | 1,800 |  |  |  |  |  |  |
| Surveys Discontinued |  |  |  |  |  |  |  |  |  |  |  |

${ }^{a}$ Weir count combined with spawning ground count. Tatsamenie 88-90, Yehring 86-87, Nahlin 92. Bold--Incomplete count or minial estimates

Appendix D. 20. Historical effort in the Alaskan District 111 and Subdistrict 111-32 (Taku Inlet) commercial drift gillnet fishery, 1960-2012.

| Days open are for the entire district and include openings to harvest spawner chinook salmon, 1960-1975. <br> Traditioanl fishery; not inlcude common property fishery |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | D111 |  | D111-32 |  |  |
| Year | Boat Days | Days <br> Open | Boat Days | Days <br> Open | PU |
| 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 | 2,600 | 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 |
| Averages |  |  |  |  |  |
| 60-11 | 2,999 | 48 | 2,253 | 45 |  |
| 02-11 | 3,285 | 61 | 2,414 | 57 | 124 |

Appendix D. 21. Historical effort in the Canadian commercial fishery in the Taku River, 1979-2012.

|  | 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 |
| Averages |  |  |
| $79-11$ | 339 | 43 |
| $02-11$ | 379 | 59 |
|  |  |  |
|  |  |  |

Appendix D. 22. Canyon Island fish wheel salmon counts and periods of operation on the Taku River, 1984-2012.

| Year | Period of Operation | Catch |  |  |  |  |  |  | Steelhead |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Chinook | Sockeye | Coho | Pink | Chum | Pink |  |  |
|  |  |  |  |  |  |  | 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 |
| Averages |  |  |  |  |  |  |  |  |  |
| 84-11 |  | 981 | 5,208 | 2,331 | 14,981 | 457 | 13,042 | 16,919 | 81 |
| 02-11 |  | 1,015 | 4,912 | 2,557 | 12,018 | 295 | 9,887 | 14,147 | 83 |

Appendix E. 1. Weekly salmon harvest and effort in the lower Alsek River fisheries, 2012.

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


| 23 | 23 | 11 | 0 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 24 | 83 | 7 | 0 |  |  |  |  |  |
| 25 | 145 | 72 | 0 |  |  |  |  |  |
| Total | 251 | 90 | 0 |  |  |  |  |  |
| Commercial Fishery |  |  |  |  |  |  |  |  |
| 23 | 59 | 110 | 0 | 0 | 0 | 9 | 1.0 | 9.0 |
| 24 | 123 | 1,508 | 0 | 0 | 0 | 13 | 2.0 | 26.0 |
| 25 | 234 | 2,393 | 0 | 0 | 0 | 12 | 2.0 | 24.0 |
| 26 | 52 | 2,563 | 0 | 0 | 0 | 12 | 2.0 | 24.0 |
| 27 | 32 | 4,163 | 4 | 0 | 0 | 13 | 2.0 | 26.0 |
| 28 | 9 | 4,755 | 0 | 0 | 0 | 13 | 2.0 | 26.0 |
| 29 | 1 | 979 | 1 | 0 | 0 | 11 | 1.0 | 11.0 |
| 30 | 0 | 1,082 | 0 | 0 | 0 | 10 | 1.0 | 10.0 |
| 31 | 0 | 210 | 0 | 0 | 0 | 4 | 1.0 | 4.0 |
| 32-35 | 0 | 451 | 164 | 0 | 0 | 7 | 10.0 | 19.0 |
| 36 | 0 | 3 | 367 | 0 | 1 | 3 | 3.0 | 9.0 |
| 37 | 0 | 0 | 0 | 0 | 0 | 0 | 3.0 | 0.0 |
| 38 | 0 | 0 | 0 | 0 | 0 | 0 | 3.0 | 0.0 |
| 39 | 0 | 0 | 0 | 0 | 0 | 0 | 3.0 | 0.0 |
| 40 | 0 | 0 | 0 | 0 | 0 | 0 | 3.0 | 0.0 |
| Total | 510 | 18,217 | 536 | 0 | 1 |  | 39 | 188 |

Weeks 32-35 were combined for confidentiality.

Appendix E. 2. Weekly salmon harvest and effort in the Canadian Aboriginal and sport fisheries in the Alsek River, 2012.

| Aboriginal includes estimates of sport catch (kept and released) in Takhanne and Blanchard rivers; estimates based on salmon catch card information. |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Chinook |  |  | Total harvest | Sockeye |  |  | $\begin{gathered} \text { Total } \\ \text { harvest } \\ \hline \end{gathered}$ | Coho |  | Total harvest |
|  | Recreational |  | Aboriginal |  | Recreational |  | Aboriginal |  | Recreational |  |  |
| SW | Kept | Released |  |  | Kept | Released |  |  | Kept | Released Aboriginal |  |
| 24 | 0 | 0 |  |  | 0 | 0 |  |  | 0 | 0 |  |
| 25 | 0 | 0 |  |  | 0 | 0 |  |  | 0 | 0 |  |
| 26 | 0 | 0 |  |  | 0 | 0 |  |  | 0 | 0 |  |
| 27 | 5 | 8 |  |  | 0 | 22 |  |  | 0 | 0 |  |
| 28 | 35 | 58 | Weekly |  | 0 | 52 | Weekly |  | 0 | 0 Weekly |  |
| 29 | 38 | 52 | Data |  | 0 | 20 | Data |  | 0 | 0 Data |  |
| 30 | 7 | 62 | Not |  | 0 | 10 | Not |  | 0 | 0 Not |  |
| 31 | 0 | 112 | Available |  | 0 | 30 | Available |  | 0 | 0 Available |  |
| 32 | 0 | 2 |  |  | 0 | 5 |  |  | 0 | 0 |  |
| 33 | 0 | 18 |  |  | 7 | 18 |  |  | 0 | 0 |  |
| 34 | 0 | 3 |  |  | 25 | 0 |  |  | 0 | 0 |  |
| 35 | 0 | 0 |  |  | 20 | 0 |  |  | 0 | 0 |  |
| 36 | 0 | 0 |  |  | 0 | 0 |  |  | 0 | 0 |  |
| 37 | 0 | 0 |  |  | 0 | 0 |  |  | 0 | 0 |  |
| 38 | 0 | 0 |  |  | 0 | 0 |  |  | 0 | 0 |  |
| 39 | 0 | 0 |  |  | 0 | 0 |  |  | 0 | 0 |  |
| 40 | 0 | 0 |  |  | 0 | 0 |  |  | 0 | 2 |  |
| 41 | 0 | 0 |  |  | 0 | 0 |  |  | 0 | 0 |  |
| 42 | 0 | 0 |  |  | 0 | 0 |  |  | 0 | 0 |  |
| 43 | 0 | 0 |  |  | 0 | 0 |  |  | 0 | 0 |  |
| 44 | 0 | 0 |  |  | 0 | 0 |  |  | 0 | 0 |  |
| 45 | 0 | 0 |  |  | 0 | 0 |  |  | 0 | 0 |  |
| 46 | 0 | 0 |  |  | 0 | 0 |  |  | 0 | 0 |  |
| Total | 85 | 315 | 0 | 85 | 52 | 157 | 1,734 | 1,786 | 0 | 20 | 0 |
| Village Creek food fish |  |  | NA |  |  |  | NA |  |  | NA |  |
| Harvest at Klukshu River weir |  |  | 0 |  |  |  | 214 |  |  | 0 |  |
| Food fish above Klukshu Weir |  |  |  |  |  |  | 304 |  |  | 0 |  |

Appendix E. 3. Daily counts of salmon passing through Klukshu River weir, 2012.

| Date | Chinook |  |  | Sockeye |  |  | Coho |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Daily | Cumulative |  | Daily | Cumulative |  | Daily | Cumulative |  |
|  |  | Daily | Prop. |  | Daily | Prop. |  | Daily | Prop. |
| 10-Jun | 0 | 0 | 0.000 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 11-Jun | 0 | 0 | 0.000 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 12-Jun | 0 | 0 | 0.000 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 13-Jun | 0 | 0 | 0.000 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 14-Jun | 0 | 0 | 0.000 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 15-Jun | 0 | 0 | 0.000 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 16-Jun | 0 | 0 | 0.000 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 17-Jun | 0 | 0 | 0.000 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 18-Jun | 0 | 0 | 0.000 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 19-Jun | 0 | 0 | 0.000 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 20-Jun | 0 | 0 | 0.000 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 21-Jun | 1 | 1 | 0.001 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 22-Jun | 0 | 1 | 0.001 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 23-Jun | 0 | 1 | 0.001 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 24-Jun | 0 | 1 | 0.001 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 25-Jun | 0 | 1 | 0.001 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 26-Jun | 0 | 1 | 0.001 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 27-Jun | 0 | 1 | 0.001 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 28-Jun | 0 | 1 | 0.001 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 29-Jun | 0 | 1 | 0.001 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 30-Jun | 0 | 1 | 0.001 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 1-Jul | 0 | 1 | 0.001 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 2-Jul | 0 | 1 | 0.001 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 3-Jul | 0 | 1 | 0.001 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 4-Jul | 0 | 1 | 0.001 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 5-Jul | 0 | 1 | 0.001 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 6-Jul | 0 | 1 | 0.001 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 7-Jul | 0 | 1 | 0.001 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 8-Jul | 0 | 1 | 0.001 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 9-Jul | 0 | 1 | 0.001 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 10-Jul | 0 | 1 | 0.001 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 11-Jul | 0 | 1 | 0.001 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 12-Jul | 0 | 1 | 0.001 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 13-Jul | 0 | 1 | 0.001 | 1 | 1 | 0.000 | 0 | 0 | 0.000 |
| 14-Jul | 7 | 8 | 0.012 | 58 | 59 | 0.003 | 0 | 0 | 0.000 |
| 15-Jul | 7 | 15 | 0.022 | 59 | 118 | 0.007 | 0 | 0 | 0.000 |
| 16-Jul | 5 | 20 | 0.030 | 88 | 206 | 0.012 | 0 | 0 | 0.000 |
| 17-Jul | 8 | 28 | 0.042 | 2 | 208 | 0.012 | 0 | 0 | 0.000 |
| 18-Jul | 8 | 36 | 0.054 | 9 | 217 | 0.012 | 0 | 0 | 0.000 |
| 19-Jul | 12 | 48 | 0.072 | 20 | 237 | 0.014 | 0 | 0 | 0.000 |
| 20-Jul | 33 | 81 | 0.121 | 6 | 243 | 0.014 | 0 | 0 | 0.000 |
| 21-Jul | 19 | 100 | 0.150 | 7 | 250 | 0.014 | 0 | 0 | 0.000 |
| 22-Jul | 78 | 178 | 0.267 | 117 | 367 | 0.021 | 0 | 0 | 0.000 |
| 23-Jul | 39 | 217 | 0.325 | 17 | 384 | 0.022 | 0 | 0 | 0.000 |
| 24-Jul | 40 | 257 | 0.385 | 22 | 406 | 0.023 | 0 | 0 | 0.000 |
| 25-Jul | 11 | 268 | 0.402 | 15 | 421 | 0.024 | 0 | 0 | 0.000 |
| 26-Jul | 36 | 304 | 0.456 | 130 | 551 | 0.032 | 0 | 0 | 0.000 |
| 27-Jul | 5 | 309 | 0.463 | 4 | 555 | 0.032 | 0 | 0 | 0.000 |
| 28-Jul | 10 | 319 | 0.478 | 21 | 576 | 0.033 | 0 | 0 | 0.000 |
| 29-Jul | 6 | 325 | 0.487 | 8 | 584 | 0.033 | 0 | 0 | 0.000 |
| 30-Jul | 50 | 375 | 0.562 | 117 | 701 | 0.040 | 0 | 0 | 0.000 |
| 31-Jul | 53 | 428 | 0.642 | 118 | 819 | 0.047 | 0 | 0 | 0.000 |
| 1-Aug | 38 | 466 | 0.699 | 80 | 899 | 0.051 | 0 | 0 | 0.000 |
| 2-Aug | 5 | 471 | 0.706 | 37 | 936 | 0.054 | 0 | 0 | 0.000 |
| 3-Aug | 4 | 475 | 0.712 | 13 | 949 | 0.054 | 0 | 0 | 0.000 |
| 4-Aug | 28 | 503 | 0.754 | 296 | 1,245 | 0.071 | 0 | 0 | 0.000 |

- Continued -

Appendix E.3. Page 2 of 2.

| Date | Chinook |  |  | Sockeye |  |  | Coho |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Daily | Cumulative |  | Daily | Cumulative |  | Daily | Cumulative |  |
|  |  | Daily | Prop. |  | Daily | Prop. |  | Daily | Prop. |
| 5-Aug | 18 | 521 | 0.781 | 170 | 1,415 | 0.081 | 0 | 0 | 0.000 |
| 6-Aug | 28 | 549 | 0.823 | 269 | 1,684 | 0.096 | 0 | 0 | 0.000 |
| 7-Aug | 21 | 570 | 0.855 | 372 | 2,056 | 0.118 | 0 | 0 | 0.000 |
| 8-Aug | 13 | 583 | 0.874 | 159 | 2,215 | 0.127 | 0 | 0 | 0.000 |
| 9-Aug | 14 | 597 | 0.895 | 434 | 2,649 | 0.152 | 0 | 0 | 0.000 |
| 10-Aug | 7 | 604 | 0.906 | 68 | 2,717 | 0.155 | 0 | 0 | 0.000 |
| 11-Aug | 26 | 630 | 0.945 | 1,140 | 3,857 | 0.221 | 0 | 0 | 0.000 |
| 12-Aug | 7 | 637 | 0.955 | 489 | 4,346 | 0.249 | 0 | 0 | 0.000 |
| 13-Aug | 7 | 644 | 0.966 | 319 | 4,665 | 0.267 | 0 | 0 | 0.000 |
| 14-Aug | 3 | 647 | 0.970 | 355 | 5,020 | 0.287 | 0 | 0 | 0.000 |
| 15-Aug | 12 | 659 | 0.988 | 949 | 5,969 | 0.341 | 0 | 0 | 0.000 |
| 16-Aug | 2 | 661 | 0.991 | 281 | 6,250 | 0.358 | 0 | 0 | 0.000 |
| 17-Aug | 2 | 663 | 0.994 | 560 | 6,810 | 0.390 | 0 | 0 | 0.000 |
| 18-Aug | 1 | 664 | 0.996 | 128 | 6,938 | 0.397 | 0 | 0 | 0.000 |
| 19-Aug | 0 | 664 | 0.996 | 693 | 7,631 | 0.437 | 0 | 0 | 0.000 |
| 20-Aug | 0 | 664 | 0.996 | 486 | 8,117 | 0.464 | 0 | 0 | 0.000 |
| 21-Aug | 0 | 664 | 0.996 | 711 | 8,828 | 0.505 | 0 | 0 | 0.000 |
| 22-Aug | 0 | 664 | 0.996 | 680 | 9,508 | 0.544 | 0 | 0 | 0.000 |
| 23-Aug | 1 | 665 | 0.997 | 770 | 10,278 | 0.588 | 0 | 0 | 0.000 |
| 24-Aug | 0 | 665 | 0.997 | 571 | 10,849 | 0.621 | 0 | 0 | 0.000 |
| 25-Aug | 0 | 665 | 0.997 | 239 | 11,088 | 0.634 | 0 | 0 | 0.000 |
| 26-Aug | 0 | 665 | 0.997 | 864 | 11,952 | 0.684 | 0 | 0 | 0.000 |
| 27-Aug | 0 | 665 | 0.997 | 362 | 12,314 | 0.704 | 0 | 0 | 0.000 |
| 28-Aug | 1 | 666 | 0.999 | 1,079 | 13,393 | 0.766 | 0 | 0 | 0.000 |
| 29-Aug | 0 | 666 | 0.999 | 144 | 13,537 | 0.774 | 0 | 0 | 0.000 |
| 30-Aug | 0 | 666 | 0.999 | 204 | 13,741 | 0.786 | 0 | 0 | 0.000 |
| 31-Aug | 1 | 667 | 1.000 | 562 | 14,303 | 0.818 | 0 | 0 | 0.000 |
| 1-Sep | 0 | 667 | 1.000 | 160 | 14,463 | 0.827 | 0 | 0 | 0.000 |
| 2-Sep | 0 | 667 | 1.000 | 635 | 15,098 | 0.864 | 0 | 0 | 0.000 |
| 3-Sep | 0 | 667 | 1.000 | 55 | 15,153 | 0.867 | 0 | 0 | 0.000 |
| 4-Sep | 0 | 667 | 1.000 | 273 | 15,426 | 0.882 | 0 | 0 | 0.000 |
| 5-Sep | 0 | 667 | 1.000 | 224 | 15,650 | 0.895 | 0 | 0 | 0.000 |
| 6-Sep | 0 | 667 | 1.000 | 86 | 15,736 | 0.900 | 0 | 0 | 0.000 |
| 7-Sep | 0 | 667 | 1.000 | 12 | 15,748 | 0.901 | 0 | 0 | 0.000 |
| 8-Sep | 0 | 667 | 1.000 | 23 | 15,771 | 0.902 | 0 | 0 | 0.000 |
| 9-Sep | 0 | 667 | 1.000 | 68 | 15,839 | 0.906 | 0 | 0 | 0.000 |
| 10-Sep | 0 | 667 | 1.000 | 40 | 15,879 | 0.908 | 0 | 0 | 0.000 |
| 11-Sep | 0 | 667 | 1.000 | 7 | 15,886 | 0.909 | 0 | 0 | 0.000 |
| 12-Sep | 0 | 667 | 1.000 | 148 | 16,034 | 0.917 | 0 | 0 | 0.000 |
| 13-Sep | 0 | 667 | 1.000 | 21 | 16,055 | 0.918 | 0 | 0 | 0.000 |
| 14-Sep | 0 | 667 | 1.000 | 39 | 16,094 | 0.921 | 0 | 0 | 0.000 |
| 15-Sep | 0 | 667 | 1.000 | 48 | 16,142 | 0.923 | 0 | 0 | 0.000 |
| 16-Sep | 0 | 667 | 1.000 | 20 | 16,162 | 0.924 | 0 | 0 | 0.000 |
| 17-Sep | 0 | 667 | 1.000 | 338 | 16,500 | 0.944 | 0 | 0 | 0.000 |
| 18-Sep | 0 | 667 | 1.000 | 7 | 16,507 | 0.944 | 0 | 0 | 0.000 |
| 19-Sep | 0 | 667 | 1.000 | 49 | 16,556 | 0.947 | 1 | 1 | 0.001 |
| 20-Sep | 0 | 667 | 1.000 | 375 | 16,931 | 0.968 | 9 | 10 | 0.008 |
| 21-Sep | 0 | 667 | 1.000 | 306 | 17,237 | 0.986 | 14 | 24 | 0.019 |
| 22-Sep | 0 | 667 | 1.000 | 45 | 17,282 | 0.989 | 4 | 28 | 0.022 |
| 23-Sep | 0 | 667 | 1.000 | 3 | 17,285 | 0.989 | 0 | 28 | 0.022 |
| 24-Sep | 0 | 667 | 1.000 | 4 | 17,289 | 0.989 | 0 | 28 | 0.022 |
| 25-Sep | 0 | 667 | 1.000 | 4 | 17,293 | 0.989 | 2 | 30 | 0.024 |
| 26-Sep | 0 | 667 | 1.000 | 0 | 17,293 | 0.989 | 0 | 30 | 0.024 |
| 27-Sep | 0 | 667 | 1.000 | 5 | 17,298 | 0.989 | 0 | 30 | 0.024 |
| 28-Sep | 0 | 667 | 1.000 | 7 | 17,305 | 0.990 | 0 | 30 | 0.024 |
| 29-Sep | 0 | 667 | 1.000 | 8 | 17,313 | 0.990 | 0 | 30 | 0.024 |
| 30-Sep | 0 | 667 | 1.000 | 2 | 17,315 | 0.990 | 1 | 31 | 0.024 |
| 1-Oct | 0 | 667 | 1.000 | 0 | 17,315 | 0.990 | 0 | 31 | 0.024 |
| 2-Oct | 0 | 667 | 1.000 | 2 | 17,317 | 0.991 | 0 | 31 | 0.024 |
| 3-Oct | 0 | 667 | 1.000 | 15 | 17,332 | 0.991 | 541 | 572 | 0.450 |
| 4-Oct | 0 | 667 | 1.000 | 150 | 17,482 | 1.000 | 700 | 1,272 | 1.000 |
| 5-Oct |  | 667 | 1.000 |  | 17,482 | 1.000 |  | 1,272 | 1.000 |
| 6-Oct |  | 667 | 1.000 |  | 17,482 | 1.000 |  | 1,272 | 1.000 |
| 7-Oct |  | 667 | 1.000 |  | 17,482 | 1.000 |  | 1,272 | 1.000 |
| Total Co |  | 667 |  |  | 17,482 |  |  | 1,272 |  |
| Adjustm |  | 693 |  |  | 17,694 |  |  | 0 |  |
| Harvest |  | 0 |  |  | 214 |  |  | 0 |  |
| Harvest | e weir | 0 |  |  | 304 |  |  | 0 |  |
| Total Es | ment | 693 | 0 | 0 | 17,176 | 0 | 0 | 0 | 0 |

Appendix E. 4. Salmon harvest and effort in the U.S. Commercial fishery in the Alsek River, 1960 to 2012.

| Year | Chinook | Sockeye | Coho | Pink | Chum | Effort |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  | Boat Days | Days Open |
| 1960 |  |  |  |  |  |  |  |
| 1961 | 2,120 | 23,339 | 7,679 | 84 | 86 | 1,436 | 80.0 |
| 1962 |  |  |  |  |  |  |  |
| 1963 | 131 | 6,055 | 7,164 | 42 | 34 | 692 | 68.0 |
| 1964 | 591 | 14,127 | 9,760 | 144 | 367 | 592 | 68.0 |
| 1965 | 719 | 28,487 | 9,638 | 10 | 72 | 1,016 | 72.0 |
| 1966 | 934 | 29,091 | 2,688 | 22 | 240 | 500 | 64.0 |
| 1967 | 225 | 11,108 | 10,090 | 107 | 30 | 600 | 68.0 |
| 1968 | 215 | 26,918 | 10,586 | 82 | 240 | 664 | 68.0 |
| 1969 | 685 | 29,259 | 2,493 | 38 | 61 | 807 | 61.0 |
| 1970 | 1,128 | 22,654 | 2,188 | 6 | 26 | 670 | 52.3 |
| 1971 | 1,222 | 25,314 | 4,730 | 3 | 120 | 794 | 60.5 |
| 1972 | 1,827 | 18,717 | 7,296 | 37 | 280 | 640 | 65.0 |
| 1973 | 1,757 | 26,523 | 4,395 | 26 | 283 | 894 | 52.0 |
| 1974 | 1,162 | 16,747 | 7,046 | 13 | 107 | 699 | 46.0 |
| 1975 | 1,379 | 13,842 | 2,230 | 16 | 261 | 738 | 58.0 |
| 1976 | 512 | 19,741 | 4,883 | 0 | 368 | 550 | 58.5 |
| 1977 | 1,402 | 40,780 | 11,817 | 689 | 483 | 882 | 57.0 |
| 1978 | 2,441 | 50,580 | 13,913 | 59 | 233 | 929 | 57.0 |
| 1979 | 2,525 | 41,449 | 6,158 | 142 | 263 | 1,110 | 51.0 |
| 1980 | 1,382 | 25,522 | 7,863 | 21 | 1,005 | 773 | 42.0 |
| 1981 | 779 | 23,641 | 10,232 | 65 | 816 | 588 | 40.0 |
| 1982 | 532 | 27,443 | 6,534 | 6 | 358 | 552 | 33.0 |
| 1983 | 94 | 18,293 | 5,253 | 20 | 432 | 487 | 38.0 |
| 1984 | 60 | 14,326 | 7,868 | 24 | 1,610 | 429 | 33.0 |
| 1985 | 213 | 5,792 | 5,490 | 3 | 427 | 277 | 33.0 |
| 1986 | 481 | 24,791 | 1,344 | 13 | 462 | 517 | 34.0 |
| 1987 | 347 | 11,393 | 2,517 | 0 | 1,924 | 388 | 40.5 |
| 1988 | 223 | 6,286 | 4,986 | 7 | 908 | 324 | 34.0 |
| 1989 | 228 | 13,513 | 5,972 | 2 | 1,031 | 378 | 38.0 |
| 1990 | 78 | 17,013 | 1,437 | 0 | 495 | 374 | 38.0 |
| 1991 | 103 | 17,542 | 5,956 | 0 | 105 | 530 | 49.0 |
| 1992 | 301 | 19,298 | 3,116 | 1 | 120 | 372 | 46.0 |
| 1993 | 300 | 20,043 | 1,215 | 0 | 49 | 372 | 40.0 |
| 1994 | 805 | 19,639 | 4,182 | 0 | 32 | 403 | 61.0 |
| 1995 | 670 | 33,112 | 14,184 | 13 | 347 | 879 | 53.5 |
| 1996 | 772 | 15,182 | 5,514 | 0 | 165 | 419 | 51.0 |
| 1997 | 568 | 25,879 | 11,427 | 0 | 34 | 611 | 59.0 |
| 1998 | 550 | 15,007 | 4,925 | 1 | 145 | 358 | 41.0 |
| 1999 | 482 | 11,441 | 5,660 | 0 | 112 | 319 | 44.0 |
| 2000 | 677 | 9,522 | 5,103 | 5 | 130 | 307 | 37.0 |
| 2001 | 541 | 13,995 | 2,909 | 8 | 17 | 234 | 50.0 |
| 2002 | 700 | 16,918 | 9,525 | 0 | 1 | 270 | 73.0 |
| 2003 | 937 | 39,698 | 47 | 0 | 0 | 271 | 60.0 |
| 2004 | 656 | 18,030 | 2,475 | 0 | 2 | 280 | 76.5 |
| 2005 | 286 | 7,572 | 1,196 | 0 | 0 | 171 | 41.0 |
| 2006 | 530 | 9,842 | 701 | 2 | 3 | 248 | 45.0 |
| 2007 | 400 | 19,795 | 134 | 0 | 0 | 199 | 47.0 |
| 2008 | 128 | 2,815 | 2,668 | 0 | 0 | 177 | 34.0 |
| 2009 | 602 | 12,906 | 3,454 | 0 | 20 | 200 | 44.0 |
| 2010 | 273 | 12,668 | 1,884 | 0 | 9 | 192 | 37.0 |
| 2011 | 546 | 24,169 | 1,614 | 0 | 11 | 235 | 46.0 |
| 2012 | 510 | 18,217 | 536 | 0 | 1 | 188 | 27.0 |
| Averages |  |  |  |  |  |  |  |
| 61-11 | 724 | 19,956 | 5,443 | 34 | 286 | 527 | 51 |
| 02-11 | 506 | 16,441 | 2,370 | 0 | 5 | 224 | 50 |

Appendix E. 5. Salmon harvest in the U.S. Chinook salmon test fishery in the Alsek River, 2005-2012.

| Year | Chinook | Sockeye |
| :--- | :---: | :---: |
| 2005 | 423 | 222 |
| 2006 | 135 | 224 |
| 2007 | 347 | 367 |
| 2008 | 465 | 55 |
| -- |  |  |
| 2011 | 421 | 157 |
| 2012 | 251 | 90 |

Appendix E. 6. Salmon harvest in the U.S. subsistence and personal use fisheries in the Alsek River, 1976-2012.

| Year | Chinook | Sockeye | Coho |
| :---: | :---: | :---: | :---: |
| 1976 | 13 | 51 | 5 |
| 1977 | 18 | 113 | 0 |
| 1978 |  |  |  |
| 1979 | 80 | 35 | 70 |
| 1980 | 57 | 41 | 62 |
| 1981 | 32 | 50 | 74 |
| 1982 | 87 | 75 | 50 |
| 1983 | 31 | 25 | 50 |
| 1984 |  |  |  |
| 1985 | 16 | 95 | 0 |
| 1986 | 22 | 241 | 45 |
| 1987 | 27 | 173 | 31 |
| 1988 | 13 | 148 | 9 |
| 1989 | 20 | 131 | 34 |
| 1990 | 85 | 144 | 12 |
| 1991 | 38 | 104 | 0 |
| 1992 | 15 | 37 | 44 |
| 1993 | 38 | 96 | 28 |
| 1994 | 60 | 47 | 20 |
| 1995 | 51 | 167 | 53 |
| 1996 | 60 | 67 | 28 |
| 1997 | 38 | 273 | 26 |
| 1998 | 63 | 158 | 42 |
| 1999 | 44 | 152 | 21 |
| 2000 | 73 | 146 | 31 |
| 2001 | 19 | 72 | 45 |
| 2002 | 60 | 232 | 35 |
| 2003 | 24 | 176 | 27 |
| 2004 | 51 | 224 | 21 |
| 2005 | 31 | 63 | 62 |
| 2006 | 47 | 272 | 23 |
| 2007 | 79 | 298 | 27 |
| 2008 | 34 | 200 | 28 |
| 2009 | 57 | 245 | 17 |
| 2010 | 70 | 259 | 0 |
| 2011 | 42 | 175 | 18 |
| 2012 | 50 | 167 | 22 |
| Averages |  |  |  |
| 76-11 | 44 | 141 | 30 |
| 02-11 | 50 | 214 | 26 |

Appendix E. 7. Salmon catches in the Canadian Aboriginal and recreational fisheries in the Alsek River, 1976 to 2012.

| Year | Chinook |  |  | Sockeye |  |  | Coho |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Aboriginal | Recreational | Total | Aboriginal | Recreational | Total | Aboriginal | Recreational | Total |
| 1976 | 150 | 200 | 350 | 4,000 | 600 | 4,600 | 0 | 100 | 100 |
| 1977 | 350 | 300 | 650 | 10,000 | 500 | 10,500 | 0 | 200 | 200 |
| 1978 | 350 | 300 | 650 | 8,000 | 500 | 8,500 | 0 | 200 | 200 |
| 1979 | 1,300 | 650 | 1,950 | 7,000 | 750 | 7,750 | 0 | 100 | 100 |
| 1980 | 150 | 200 | 350 | 800 | 600 | 1,400 | 0 | 200 | 200 |
| 1981 | 150 | 315 | 465 | 2,000 | 808 | 2,808 | 0 | 109 | 109 |
| 1982 | 400 | 224 | 624 | 5,000 | 755 | 5,755 | 0 | 109 | 109 |
| 1983 | 300 | 312 | 612 | 2,550 | 732 | 3,282 | 0 | 16 | 16 |
| 1984 | 100 | 475 | 575 | 2,600 | 289 | 2,889 | 0 | 20 | 20 |
| 1985 | 175 | 250 | 425 | 1,361 | 100 | 1,461 | 50 | 100 | 150 |
| 1986 | 102 | 165 | 267 | 1,914 | 307 | 2,221 | 0 | 9 | 9 |
| 1987 | 125 | 367 | 492 | 1,158 | 383 | 1,541 | 0 | 49 | 49 |
| 1988 | 43 | 249 | 292 | 1,604 | 322 | 1,926 | 0 | 192 | 192 |
| 1989 | 234 | 272 | 506 | 1,851 | 319 | 2,170 | 0 | 227 | 227 |
| 1990 | 202 | 555 | 757 | 2,314 | 392 | 2,706 | 0 | 75 | 75 |
| 1991 | 509 | 388 | 897 | 2,111 | 303 | 2,414 | 0 | 227 | 227 |
| 1992 | 148 | 103 | 251 | 2,592 | 582 | 3,174 | 0 | 213 | 213 |
| 1993 | 152 | 171 | 323 | 2,361 | 329 | 2,690 | 0 | 37 | 37 |
| 1994 | 289 | 197 | 486 | 1,745 | 261 | 2,006 | 8 | 69 | 77 |
| 1995 | 580 | 1,044 | 1,624 | 1,745 | 682 | 2,427 | 83 | 527 | 610 |
| 1996 | 448 | 650 | 1,098 | 1,204 | 157 | 1,361 | 56 | 9 | 65 |
| 1997 | 232 | 298 | 530 | 484 | 36 | 520 | 5 | 0 | 5 |
| 1998 | 171 | 175 | 346 | 567 | 18 | 585 | 72 | 40 | 112 |
| 1999 | 238 | 174 | 412 | 554 | 0 | 554 | 0 | 28 | 28 |
| 2000 | 65 | 77 | 142 | 745 | 0 | 745 | 51 | 1 | 52 |
| 2001 | 120 | 157 | 277 | 1,173 | 4 | 1,177 | 5 | 94 | 99 |
| 2002 | 120 | 197 | 317 | 2,194 | 61 | 2,255 | 6 | 283 | 289 |
| 2003 | 90 | 138 | 228 | 2,734 | 61 | 2,795 | 0 | 192 | 192 |
| 2004 | 139 | 46 | 185 | 1,875 | 247 | 2,122 | 0 | 127 | 127 |
| 2005 | 58 | 56 | 114 | 581 | 13 | 594 | 20 | 51 | 71 |
| 2006 | 2 | 17 | 19 | 1,321 | 6 | 1,327 | 0 | 0 | 0 |
| 2007 | 1 | 40 | 41 | 1,330 | 10 | 1,340 | 1 | 0 | 1 |
| 2008 | 0 | 7 | 7 | 0 | 0 | 0 | 26 | 8 | 34 |
| 2009 | 105 | 20 | 125 | 715 | 2 | 717 | 3 | 0 | 3 |
| 2010 | 197 | 97 | 294 | 1,704 | 12 | 1,716 | 4 | 3 | 7 |
| 2011 | 119 | 95 | 214 | 2,053 | 57 | 2,110 | 9 | 20 | 29 |
| 2012 | 0 | 85 | 85 | 1,734 | 52 | 1,786 | 0 | 0 | 0 |
| Averages |  |  |  |  |  |  |  |  |  |
| 76-11 | 220 | 249 | 469 | 2,276 | 283 | 2,559 | 11 | 101 | 112 |
| 02-11 | 83 | 71 | 154 | 1,451 | 47 | 1,498 | 7 | 68 | 75 |

## Appendix E. 8. Annual Klukshu River weir counts of Chinook, sockeye, and coho

 salmon, 1976 to 2012.The escapement count equals the weir count minus the aboriginal fishery harvest above the weir and brood stock taken. The remainder of the food fishery harvest occurred below the weir, at Village Creek, and Blanchard and Takhanne Rivers. Jack Chinook salmon are included in Chinook counts.
Coho counts are partial counts; weir is removed prior to the end of the run.

| Year | Chinook |  | Sockeye |  |  |  | Coho a |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Count | Escape | Early (to August 16) | Late | Total | Escape. | Count | Escape |
| 1976 | 1,278 | 1,153 | 181 | 11,510 | 11,691 | 7,941 | 1,572 |  |
| 1977 | 3,144 | 2,894 | 8,931 | 17,860 | 26,791 | 15,441 | 2,758 |  |
| 1978 | 2,976 | 2,676 | 2,508 | 24,359 | 26,867 | 19,017 | 30 |  |
| 1979 | 4,404 | 2,454 | 977 | 11,334 | 12,311 | 7,051 | 175 |  |
| 1980 | 2,637 | 2,487 | 1,008 | 10,742 | 11,750 | 10,850 | 704 |  |
| 1981 | 2,113 | 1,963 | 997 | 19,351 | 20,348 | 18,448 | 1,170 |  |
| 1982 | 2,369 | 1,969 | 7,758 | 25,941 | 33,699 | 28,899 | 189 |  |
| 1983 | 2,537 | 2,237 | 6,047 | 14,445 | 20,492 | 18,017 | 303 |  |
| 1984 | 1,672 | 1,572 | 2,769 | 9,958 | 12,727 | 10,227 | 1,402 |  |
| 1985 | 1,458 | 1,283 | 539 | 18,081 | 18,620 | 17,259 | 350 |  |
| 1986 | 2,709 | 2,607 | 416 | 24,434 | 24,850 | 22,936 | 71 |  |
| 1987 | 2,616 | 2,491 | 3,269 | 7,235 | 10,504 | 9,346 | 202 |  |
| 1988 | 2,037 | 1,994 | 585 | 8,756 | 9,341 | 7,737 | 2,774 |  |
| 1989 | 2,456 | 2,289 | 3,400 | 20,142 | 23,542 | 21,636 | 2,219 |  |
| 1990 | 1,915 | 1,742 | 1,316 | 24,679 | 25,995 | 24,607 | 315 |  |
| 1991 | 2,489 | 2,248 | 1,924 | 17,053 | 18,977 | 17,645 | 8,540 | 8,478 |
| 1992 | 1,367 | 1,242 | 11,339 | 8,428 | 19,767 | 18,269 | 1,145 | 1,145 |
| 1993 | 3,302 | 3,220 | 5,369 | 11,371 | 16,740 | 14,921 | 788 | 788 |
| 1994 | 3,727 | 3,628 | 3,247 | 11,791 | 15,038 | 13,892 | 1,232 | 1,232 |
| 1995 | 5,678 | 5,394 | 2,289 | 18,407 | 20,696 | 19,817 | 3,614 | 3,564 |
| 1996 | 3,599 | 3,382 | 1,502 | 6,818 | 8,320 | 7,891 | 3,465 | 3,465 |
| 1997 | 2,989 | 2,829 | 6,565 | 4,931 | 11,496 | 11,303 | 307 | 302 |
| 1998 | 1,364 | 1,347 | 597 | 12,994 | 13,591 | 13,580 | 1,961 | 1,961 |
| 1999 | 2,193 | 2,168 | 371 | 5,010 | 5,381 | 5,101 | 2,531 | 2,531 |
| 2000 | 1,365 | 1,321 | 237 | 5,314 | 5,551 | 5,422 | 4,832 | 4,791 |
| 2001 | 1,825 | 1,738 | 908 | 9,382 | 10,290 | 9,329 | 748 | 746 |
| 2002 | 2,240 | 2,134 | 11,904 | 13,807 | 25,711 | 23,587 | 9,921 | 9,921 |
| 2003 | 1,737 | 1,661 | 3,084 | 31,278 | 34,362 | 32,120 | 3,689 | 3,689 |
| 2004 | 2,525 | 2,445 | 3,464 | 11,884 | 15,348 | 13,721 | 750 | 750 |
| 2005 | 1,070 | 963 | 994 | 2,379 | 3,373 | 3,167 | 683 | 663 |
| 2006 | 568 | 566 | 247 | 13,208 | 13,455 | 12,890 | 420 | 420 |
| 2007 | 677 | 676 | 2,725 | 6,231 | 8,956 | 8,310 | 300 | 299 |
| 2008 | 466 | 466 | 43 | 2,698 | 2,741 | 2,741 | 4,275 | 4,249 |
| 2009 | 1,571 | 1,518 | 1,247 | 4,465 | 5,712 | 5,509 | 424 | 421 |
| 2010 | 2,356 | 2,257 | 5,073 | 13,887 | 18,960 | 18,546 | 2,365 | 2,361 |
| 2011 | 1,670 | 1,609 | 5,635 | 15,754 | 21,389 | 20,769 | 2,119 | 2,110 |
| 2012 | 693 | 693 | 5,969 | 11,725 | 17,694 | 17,176 | 1,272 | 1,272 |
| Averages |  |  |  |  |  |  |  |  |
| 76-11 | 2,253 | 2,073 | 3,041 | 13,220 | 16,261 | 14,387 | 1,898 |  |
| 02-11 | 1,488 | 1,430 | 3,442 | 11,559 | 15,001 | 14,136 | 2,495 | 2,488 |

Appendix E. 9. Alsek River sockeye salmon escapement 2000 to 2012.

| The 2000-2004 estimates are based on a mark-recapture study; starting in 2005 estimates based on GSI analysis and the expansion of the Klukshu River weir count. |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Inriver Run Estimate | CI |  | Canadian | Spawning | U.S. | Total | Percent |
|  |  | Lower | Upper | Harvest | Escapement | Harvest | Run | Klukshu |
| 2000 | 37,887 | 23,410 | 52,365 | 745 | 37,142 | 9,668 | 47,555 | 14.7\% |
| 2001 | 31,164 | 23,143 | 39,185 | 1,177 | 29,987 | 14,067 | 45,231 | 33.0\% |
| 2002 | 95,427 | 55,893 | 134,961 | 2,255 | 93,172 | 17,150 | 112,577 | 26.9\% |
| 2003 | 103,507 | 74,350 | 132,664 | 2,795 | 100,712 | 39,874 | 143,381 | 33.2\% |
| 2004 | 83,703 | 39,566 | 127,841 | 2,122 | 81,581 | 18,254 | 101,957 | 18.3\% |
| 2005 | 57,817 | 21,907 | 93,727 | 594 | 57,223 | 7,857 | 65,674 | 5.8\% |
| 2006 | 48,901 | 41,234 | 56,569 | 1,327 | 47,574 | 10,338 | 59,239 | 27.5\% |
| 2011 | 86,009 | 72,970 | 99,049 | 2,110 | 83,899 | 24,501 | 110,510 | 26.6\% |
| 2012 | 78,384 | 64,311 | 92,456 | 1,786 | 76,598 | 18,474 | 96,858 | 24.2\% |
| Averages |  |  |  |  |  |  |  |  |
| 00-06, 11 | 69,200 |  |  | 1,657 | 67,543 | 17,798 | 86,998 | 23.4\% |

Appendix E. 10. Alsek River sockeye salmon counts from U.S. and Canadian aerial surveys and from the electronic counter at Village Creek, 1985-2012.

| Year | U.S. Aerial Surveys |  |  |  | Canada Aerial Surveysa |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |
|  | Basin | Cabin | Muddy | Tanis | Tatshensh | katah | illage Creek |
|  | Creek | Creek | Creek | River | River | Lake | 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 | 30 |  |  | 800 |  |  | NA |
| 2000 | 25 |  |  | 180 |  |  | 1,860 |
| 2001 |  |  |  | 700 |  |  | 1,897 |
| 2002 | No surveys |  |  |  |  |  | 2,765 |
| 2003 | No surveys |  |  |  |  |  | 2,778 |
| 2004 | No surveys |  |  |  |  |  | 1,968 |
| 2005 | No surveys |  |  |  |  |  | 1,408 |
| 2006 | No surveys |  |  |  |  |  | 979 |
| 2007 | No surveys |  |  |  |  |  | 10,254 |
| 2008 | No surveys |  |  |  |  | 1,000 | NA |
| 2009 | No surveys |  |  |  |  | 4,500 | 887 |
| 2010 | No surveys |  |  |  |  | 2,500 | 2,305 |
| 2011 | No surveys |  |  |  |  | 150 | 355 |
| 2012 | No surveys |  |  |  |  | 2,038 | 1,372 |
| Averages |  |  |  |  |  |  |  |
| 86-11 |  |  |  |  |  |  | 2,851 |
| 02-11 |  |  |  |  |  |  | 2,633 |

${ }^{\text {a }}$ Includes several streams from Lo-Fog to Goat Creek.
Bold are incomplete counts

Appendix E. 11. Aerial survey index counts of Alsek River Chinook salmon escapements, 1984 to 2012.

| Year | Blanchard <br> River | Takhanne <br> River | Goat <br> Creek |
| :--- | :---: | :---: | :---: |
| 1984 | 304 | 158 | 28 |
| 1985 | 232 | 184 |  |
| 1986 | 556 | 358 | 142 |
| 1987 | 624 | 395 | 85 |
| 1988 | 437 | 169 | 54 |
| 1989 | a | 158 | 34 |
| 1990 | a | 325 | 32 |
| 1991 | 121 | 86 | 63 |
| 1992 | 86 | 77 | 16 |
| 1993 | 326 | 351 | 50 |
| 1994 | 349 | 342 | 67 |
| 1995 | 338 | 260 | b |
| 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 |  |  |
| Aver |  |  |  |
|  |  |  |  |
|  |  |  |  |

Averages
84-08 245 43

[^4]
## Appendix E. 12. Alsek River run of large Chinook salmon, 1997-2004. Estimates are based on a mark-recapture study and include the percent of Chinook salmon.

| Estimates are based on a mark-recapture study and include the percent of Chinook salmon spawning in the Klukshu River; the program was discontinued in 2005. |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Inriver Run <br> Past <br> Dry Bay |  |  | U.S. Harvest |  | Total Inriver Run | Canadian Harvest |  | Escapement |
|  |  | CI |  |  | Bay |  |  |  |  |
|  |  | Lower | Upper | Commercial | Subsistence |  | Aboriginal | Sport |  |
| 1997 | 15,250 | 9,081 | 21,418 | 568 | 38 | 15,856 | 232 | 298 | 14,720 |
| 1998 | 4,967 | 3,027 | 9,765 | 550 | 63 | 5,580 | 171 | 175 | 4,621 |
| 1999 | 11,969 | 8,243 | 22,035 | 482 | 44 | 12,495 | 238 | 174 | 11,557 |
| 2000 | 8,432 | 6,805 | 14,308 | 677 | 73 | 9,182 | 65 | 77 | 8,290 |
| 2001 | 11,246 | 9,146 | 14,303 | 541 | 19 | 11,806 | 120 | 157 | 10,969 |
| 2002 | 8,807 | 8,345 | 10,790 | 700 | 60 | 9,567 | 120 | 197 | 8,490 |
| 2003 | 5,105 | 4,302 | 6,310 | 937 | 24 | 6,066 | 90 | 138 | 4,877 |
| 2004 | 7,565 |  |  | 656 | 38 | 8,259 | 139 | 46 | 7,380 |

Klukshu weir count of large Chinook salmon as a percent of the Alsek escapement of large Chinook salmon

|  | Weir Count |  | Percent <br> Year |
| :--- | :---: | :---: | :---: |
|  | All | Large | Klukshu |
| 1997 | 2,989 | 2,864 | $19.5 \%$ |
| 1998 | 1,364 | 1,184 | $25.6 \%$ |
| 1999 | 2,193 | 1,663 | $14.4 \%$ |
| 2000 | 1,365 | 1,218 | $14.7 \%$ |
| 2001 | 1,825 | 1,538 | $14.0 \%$ |
| 2002 | 2,240 | 2,067 | $24.3 \%$ |
| 2003 | 1,737 | 1,313 | $26.9 \%$ |
| 2004 | 2,525 | 2,376 | $32.2 \%$ |

Appendix E. 13. Alsek River Chinook salmon escapement, 2007, 2011-2012.

| Year | Combined U.S.Tributary Counts |  |
| :--- | :---: | :--- |
| 1985 | 450 |  |
| 1986 | 1,100 |  |
| 1987 | 100 |  |
| 1988 | 1,900 |  |
| 1989 | 1,990 |  |
| 1990 | 1,600 |  |
| 1991 | 500 | a |
| 1992 | 1,010 | a |
| 1993 | 800 | a |
| 1994 | 975 |  |
| 1995 | 1,050 |  |
| 1996 | 1,550 |  |
| 1997 | No surveys due to poor weather conditions |  |
| 1998 | 500 |  |
| 1999 | No surveys due to poor weather conditions |  |
| 2000 | 620 |  |

${ }^{a}$ Few systems surveyed.

Appendix E. 14. Aerial survey counts of coho salmon from U.S. lower Alsek River tributaries, 1985-2000.

|  | Chinook | Sockeye | Coho |
| :--- | :---: | :---: | :---: |
| Escapement Index $^{\text {a }}$ |  |  |  |
| Klukshu Weir Count $^{\text {Klukshu Escapement }}$ | 693 | 17,694 | 1,272 |
|  | 693 | 17,176 | 1,272 |
| Harvest $^{\mathrm{b}}$ |  |  |  |
| U.S. Commercial | 510 | 18,217 | 536 |
| U.S. Subsistence | 50 | 167 | 22 |
| U.S. Test | 251 | 90 |  |
| Canadian Aboriginal | 0 | 1,734 | 0 |
| Canadian Recreational | 85 | 52 | 0 |
| Total | 896 | 20,260 | 558 |

[^5]Appendix F. 1. Tahltan Lake egg collection, fry plants, and survivals, 1989-2012.
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 Planted | Percent <br> Fertilized | Survival |  | Thermal <br> Mark <br> Pattern |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Fertilized |  |  | Green |  |
|  | Target | Collected |  |  |  | gg to Fry | Egg to Fry |  |
| $1989{ }^{\text {a }}$ | 3.000 | 2.955 |  | 2.955 | 1.042 | 0.704 | 0.501 | 0.353 | 1:1.4 |
| 1990 | 5.000 | 4.511 | 4.511 | 3.585 | 0.824 | 0.964 | 0.795 | 1:1.3 |
| 1991 | 5.000 | 4.246 | 1.514 | 1.415 | 0.949 | 0.984 | 0.935 | 1:1.4 |
| 1992 | 5.400 | 4.901 | 2.154 | 1.947 | 0.919 | 0.983 | 0.904 | 1:1.4+2.3 |
| 1993 | 6.000 | 6.140 | 0.969 | 0.904 | 0.946 | 0.986 | 0.933 | 1:1.6+2.5n |
| 1994 | 6.000 | 4.183 | 1.418 | 1.143 | 0.929 | 0.868 | 0.806 | 1:1.6 |
| 1995 | 6.000 | 6.891 | 3.008 | 2.296 | 0.906 | 0.843 | 0.763 | 1:1.7 |
| 1996 | 6.000 | 6.402 | 3.169 | 2.248 | 0.923 | 0.769 | 0.709 | 1:1.6 |
| 1997 | 6.000 | 3.221 | 2.700 | 1.900 | 0.812 | 0.867 | 0.704 | 2:1.6 |
| 1998 | 6.000 | 4.022 | 1.998 | 1.671 | 0.911 | 0.918 | 0.836 | 1:1.7 |
| 1999 | 6.000 | 3.826 | 2.773 | 2.228 | 0.901 | 0.892 | 0.804 | 2:1.6 |
| 2000 | 6.000 | 2.388 | 2.388 | 1.873 | 0.920 | 0.852 | 0.784 | 1:1.7 |
| 2001 | 6.000 | 3.306 | 3.306 | 2.533 | 0.829 | 0.924 | 0.766 | 2:1.6 |
| 2002 | 6.000 | 4.050 | 2.780 | 2.623 | 0.926 | 1.018 | 0.943 | 1:1.7 |
| 2003 | 6.000 | 5.391 | 2.661 | 2.226 | 0.899 | 0.931 | 0.836 | 1.6\&1:1.5+2.4 |
| 2004 | 6.000 | 5.701 | 1.966 | 1.226 | 0.803 | 0.777 | 0.624 | 1:1.6+2.6 |
| 2005 | 6.000 | 4.552 | 1.809 | 1.280 | 0.800 | 0.885 | 0.708 | 1:1.4+2.2 |
| 2006 | 6.000 | 4.364 | 2.954 | 2.466 | 0.910 | 0.917 | 0.835 | 1:1.3n,2.2 |
| 2007 | 6.000 | 4.060 | 2.209 | 1.540 | 0.756 | 0.922 | 0.697 | 1,2n,3H |
| 2008 | 6.000 | 3.386 | 2.398 | 1.395 | 0.850 | 0.684 | 0.582 | 1,4H |
| 2009 | 6.000 | 4.469 | 2.609 | 1.830 | 0.774 | 0.906 | 0.701 | 5,2H |
| 2010 | 6.000 | 6.000 | 3.097 | 1.230 | 0.824 | 0.482 | 0.397 | 4,3H |
| 2011 | 6.000 | 6.481 | 3.383 | 2.130 | 0.854 | 0.737 | 0.630 | 3,2n,2H |
| 2012 | 5.000 | 5.597 | 3.674 | 1.349 | 0.664 | 0.553 | 0.367 | 1,4H |
| Averages |  |  |  |  |  |  |  |  |
| 89-11 | 5.757 | 4.585 | 2.553 | 1.858 | 0.864 | 0.853 | 0.741 |  |
| 02-11 | 6.000 | 4.845 | 2.587 | 1.795 | 0.840 | 0.826 | 0.695 |  |

Appendix F. 2. Tuya Lake fry plants and survivals, 1991-2012.

| Numbers for eggs and fry are millions. |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Egg Take |  |  | Survival |  |  | Thermal <br> Mark <br> Pattern |
|  | Designated | Fry | Percent Fertilized Green Fertilized Igg to Fry gg to Fry |  |  |  |
| Brood Year | Tuya | Planted |  |  |  |  |
| 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 Lie |  |  |  |  |  |
| 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 | 2,1,3H |
| 2008 | 0.988 | 0.832 | 0.856 | 0.984 | 0.842 | 6 H |
| 2009 | 1.860 | 0.976 | 0.794 | 0.661 | 0.525 | 3,4H |
| 2010 | 2.852 | 1.240 | 0.819 | 0.531 | 0.435 | 3n,3H |
| 2011 | 3.098 | 1.600 | 0.865 | 0.597 | 0.516 | 6H |
| Averages |  |  |  |  |  |  |
| 91-11 | 2.456 | 1.835 | 0.891 | 0.845 | 0.756 |  |
| 02-11 | 2.254 | 1.629 | 0.876 | 0.841 | 0.742 |  |

Appendix F. 3. Tatsamenie Lake egg collection, fry plants, and survivals, 1989-2012.

| Numbers for eggs and fry are millions. |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Brood Year | Egg Take |  |  | Planted | Percent <br> Fertilized | Survival |  | Thermal Mark <br> Pattern(s) |  |
|  |  |  |  | tilized |  | Green |  |  |
|  | Target | Collected ${ }^{\text {a }}$ | Transport |  |  | to Fry | to Fry |  |  |
| 1990 | 2.500 | 0.985 | 0.673 |  | 0.673 | 0.775 | 0.684 | 0.683 | 1:1.3 | 22-Jun |
| 1991 | 1.500 | 1.360 | 1.232 | 1.232 | 0.927 | 0.906 | 0.906 | 2:1.4 | 26-Jun |
| 1992 | 1.750 | 1.486 | 0.909 | 0.909 | 0.858 | 0.612 | 0.612 | 1:1.5 | 14-Jul |
| 1993 | 2.500 | 1.144 | 0.521 | 0.521 | 0.619 | 0.455 | 0.455 | 2:1.5 | 14-Jul |
| 1994 | 2.500 | 1.229 | 0.898 | 0.898 | 0.801 | 0.731 | 0.730 | 1:1.5 | 21-Jul |
| 1995 | 2.500 | 2.407 | 1.724 | 1.724 | 0.843 | 0.716 | 0.716 | 1:1.5 | 25-Jun |
| 1996 | 5.000 | 4.934 | 3.941 | 3.941 | 0.849 | 0.800 | 0.799 | 1:1.5\&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 | 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 | 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 | 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 | 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 | 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 | 2n3\&2,3n,1\&1,3n,2\&3,2n,1 | 6-Jun |
| 2008 | 5.000 | 4.902 | 3.874 | 3.871 | 0.892 | 0.900 | 0.790 | 3,2H \& 3,3H | 3-Jun |
| 2009 | 5.000 | 1.224 | 0.717 | 0.716 | 0.852 | 0.586 | 0.585 | 6,2H \& 3n,2H | 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 | 3n,5H\&6,2H | 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 |
| Averages |  |  |  |  |  |  |  |  |  |
| 90-11 | 3.548 | 2.484 | 1.821 | 1.783 | 0.874 | 0.748 | 0.716 |  | 17-Jun |
| 02-11 | 4.200 | 2.640 | 1.990 | 1.906 | 0.899 | 0.776 | 0.726 |  | 30-May |

Multiple Release Treatments

| Treatment 1 |  |  |  |  | Treatment 2 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Brood | Mark | Treatment | Number Released | Last | Mark | Treatment | Number <br> Released | Last |
|  |  |  |  |  |  |  |  | Date |
| Year |  |  |  | Released |  |  |  | Released |
| 1996 | 1:1.5 | onshore | 3.441 | 27-Jun | 1:1.5,2.3 | onshore | 0.500 | 27-Jun |
| 1997 | 2:1.5 | onshore | 3.202 | 29-Jun | 2:1.5,2.3 | fed at lake | 0.394 | 9-Jul |
| 1998 | 1:1.4+2.5 | unfed | 0.751 | 9-Jun | 1:1.4+2.3 | fed at lake | 1.018 | 30-Jun |
| 1999 | 2:1.5 | fed at lake | 0.350 | 4-Jul |  |  |  |  |
| 2000 | 1.1.5+2.3 | fed early | 1.265 | 15-Jun | 1.1.5 | fed late | 1.054 | 26-Jun |
| 2001 | 2:1.5 | unfed early | 0.727 | 30-May | 2:1.5,2.3 | fed | 1.432 | 25-Jun |
| 2002 | 1:1.4 | direct release early | 0.911 | 27-May | 1:1.4+2.3 | fed - IHN loss | 0.000 | none |
| 2003 | 1.1.5+2.3 | unfed early south | 1.005 | 27-May | 1.1.5 | unfed early north | 1.136 | 24-May |
| 2004 | 1:1.4+2.5N | unfed early south | 0.367 | 20-May | 1:1.4+2/3,3.3 | unfed early north | 0.261 | 20-May |
| 2005 | 1:1.4+2.3 | unfed early south | 0.775 | 8-Jun | 1:1.4+2.5 | unfed early north | 0.696 | 8-Jun |
| 2006 | 1:1.2,2.1,3.2 | unfed early south | 1.808 | 7-Jun | 1:1.2,2.2,3.3 | 1:1.2,2.2,3.1 early north | 1.897 | 13-Jun |
| 2007 | 1,3n,2 | unfed early midlake | 0.971 | 6-Jun | 2n3 | 2,3n1 early north | 1.150 | 5-Jun |
| 2007 | 3,2n,1 | extended rearing ${ }^{\text {c }}$ | 0.400 | 8-Jun |  |  |  |  |
| 2008 | 3,2H | unfed early north | 0.115 | 3-Jun | 3,3H | extended rearing | 0.115 | 26-Jul |
| 2009 | 6,2H | unfed early north | 0.506 | 22-May | 3n,2H | extended rearing | 0.210 | 12-Aug |
| 2010 | 2,1,2H | unfed early north | 1.398 | 29-May | 2,2,3H | extended rearing | 0.198 | 14-Aug |
| 2011 | 3n,5H | unfed early north | 1.649 | 29-May | 6,2H | extended rearing | 0.242 | 21-Aug |
| 2012 | 3n,2H | unfed early north | 1.419 | 1-Jun | 3,3H | extended rearing | 0.216 | 9-Aug |
| Averages |  |  |  |  |  |  |  |  |
| 98-11 |  |  | 1.155 | 6-Jun |  |  | 0.687 | 1-Jul |
| 02-11 |  |  | 0.901 | 31-May |  |  | 0.591 | 2-Jul |

[^6]Appendix F.4. Trapper and King Salmon lakes egg collection, fry plants, and survivals, 1990-2012.
Numbers for eggs and fry are millions.

| Brood Year | Lake | Egg Take |  |  | $\begin{array}{r} \text { Fry } \\ \text { Planted } \\ \hline \end{array}$ | Percent <br> Fertilized | Survival |  | Thermal <br> Mark Pattern | Last <br> Date <br> Released |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | Fertilized |  | Green |  |  |
|  |  | Target | Collected ${ }^{\text {a }}$ 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 | 6H | 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 |

Appendix G. 1. Annual stock proportion estimates (mean) of large Chinook salmon harvested in the Alaskan District 108 commercial drift gillnet, 2012. CI05 is the lower credibility interval and CI95 is the upper credibility interval.

| Year | Sample Size | Statistic | 5 Reporting Groups |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Taku | Andrew | Stikine | SSEAK | Other |
| 2005 | 254 | Mean | 0.310 | 0.068 | 0.577 | 0.033 | 0.012 |
|  |  | SD | 0.051 | 0.022 | 0.055 | 0.015 | 0.007 |
|  |  | CI05 | 0.227 | 0.035 | 0.486 | 0.011 | 0.003 |
|  |  | CI95 | 0.396 | 0.107 | 0.666 | 0.060 | 0.025 |
| 2006 | 350 | Mean | 0.286 | 0.308 | 0.357 | 0.044 | 0.006 |
|  |  | SD | 0.042 | 0.034 | 0.046 | 0.017 | 0.004 |
|  |  | CI05 | 0.217 | 0.254 | 0.281 | 0.018 | 0.001 |
|  |  | CI95 | 0.357 | 0.365 | 0.432 | 0.074 | 0.015 |
| 2007 | 292 | Mean | 0.187 | 0.463 | 0.302 | 0.041 | 0.007 |
|  |  | SD | 0.037 | 0.036 | 0.042 | 0.014 | 0.006 |
|  |  | CI05 | 0.129 | 0.404 | 0.234 | 0.020 | 0.001 |
|  |  | CI95 | 0.249 | 0.522 | 0.373 | 0.066 | 0.019 |
| 2008 | 293 | Mean | 0.211 | 0.522 | 0.175 | 0.082 | 0.009 |
|  |  | SD | 0.033 | 0.035 | 0.036 | 0.020 | 0.007 |
|  |  | CI05 | 0.158 | 0.464 | 0.120 | 0.051 | 0.001 |
|  |  | CI95 | 0.266 | 0.580 | 0.238 | 0.118 | 0.022 |
| 2009 | 177 | Mean | 0.014 | 0.738 | 0.114 | 0.126 | 0.008 |
|  |  | SD | 0.020 | 0.040 | 0.033 | 0.029 | 0.007 |
|  |  | CI05 | 0.000 | 0.671 | 0.063 | 0.082 | 0.000 |
|  |  | CI95 | 0.057 | 0.801 | 0.171 | 0.176 | 0.022 |
| 2010 | 72 | Mean | 0.093 | 0.648 | 0.122 | 0.110 | 0.028 |
|  |  | SD | 0.050 | 0.070 | 0.065 | 0.043 | 0.022 |
|  |  | CI05 | 0.020 | 0.531 | 0.026 | 0.047 | 0.002 |
|  |  | CI95 | 0.182 | 0.760 | 0.237 | 0.187 | 0.070 |
| 2011 | 70 | Mean | 0.202 | 0.529 | 0.144 | 0.056 | 0.069 |
|  |  | SD | 0.064 | 0.071 | 0.059 | 0.035 | 0.032 |
|  |  | CI05 | 0.101 | 0.411 | 0.060 | 0.010 | 0.024 |
|  |  | CI95 | 0.311 | 0.644 | 0.251 | 0.123 | 0.129 |
| 2012 | 202 | Mean | 0.019 | 0.627 | 0.229 | 0.124 | 0.001 |
|  |  | SD | 0.025 | 0.042 | 0.041 | 0.033 | 0.002 |
|  |  | CI05 | 0.000 | 0.557 | 0.161 | 0.074 | 0.000 |
|  |  | CI95 | 0.071 | 0.696 | 0.297 | 0.181 | 0.005 |

Appendix G. 2. Annual estimates of large Chinook salmon harvested in the Alaskan
District 108 commercial drift gillnet, 2012.
CI05 is the lower credibility interval and CI95 is the upper credibility interval.

|  |  | 5 Reporting Groups |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Sample Size | Statistic | Taku | Andrew | Stikine | SSEAK | Other |
| 2010 | 72 | Estimate | 103 | 717 | 135 | 122 | 31 |
|  |  | SD | 55 | 77 | 72 | 48 | 24 |
|  |  | CI05 | 22 | 587 | 28 | 52 | 2 |
|  |  | CI95 | 202 | 842 | 263 | 207 | 78 |
| 2011 | 70 | Estimate | 566 | 1,480 | 404 | 158 | 192 |
|  |  | SD | 180 | 198 | 165 | 99 | 91 |
|  |  | CI05 | 283 | 1,152 | 167 | 27 | 67 |
|  |  | CI95 | 870 | 1,803 | 702 | 344 | 361 |
| 2012 | 202 | Estimate | 90 | 3,064 | 1,119 | 607 | 4 |
|  |  | SD | 121 | 205 | 201 | 159 | 12 |
|  |  | CIO5 | 0 | 2,722 | 788 | 364 | 0 |
|  |  | CI95 | 345 | 3,397 | 1,450 | 885 | 23 |

Appendix G. 3. Annual stock proportion estimates (mean) of large Chinook salmon harvested in the Alaskan District 108 sport fisheries, 2012.
CI05 is the lower credibility interval and CI95 is the upper credibility interval.

| Year | Sample Size | Statistic | 5 Reporting Groups |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Taku | Andrew | Stikine | SSEAK | Other |
| 2005 | 226 | Mean | 0.220 | 0.134 | 0.518 | 0.082 | 0.045 |
|  |  | SD | 0.052 | 0.032 | 0.059 | 0.025 | 0.015 |
|  |  | CI05 | 0.136 | 0.084 | 0.421 | 0.043 | 0.024 |
|  |  | C195 | 0.308 | 0.190 | 0.615 | 0.125 | 0.072 |
| 2006 | 201 | Mean | 0.156 | 0.177 | 0.561 | 0.086 | 0.019 |
|  |  | SD | 0.043 | 0.038 | 0.055 | 0.028 | 0.011 |
|  |  | CI05 | 0.089 | 0.118 | 0.471 | 0.045 | 0.005 |
|  |  | CI95 | 0.230 | 0.241 | 0.651 | 0.135 | 0.041 |
| 2007 | 200 | Mean | 0.221 | 0.296 | 0.383 | 0.053 | 0.048 |
|  |  | SD | 0.047 | 0.040 | 0.054 | 0.021 | 0.017 |
|  |  | CI05 | 0.145 | 0.232 | 0.295 | 0.023 | 0.024 |
|  |  | CI95 | 0.301 | 0.362 | 0.473 | 0.090 | 0.079 |
| 2008 | 200 | Mean | 0.284 | 0.251 | 0.330 | 0.089 | 0.046 |
|  |  | SD | 0.048 | 0.039 | 0.055 | 0.029 | 0.015 |
|  |  | CI05 | 0.206 | 0.189 | 0.242 | 0.047 | 0.024 |
|  |  | CI95 | 0.365 | 0.316 | 0.422 | 0.142 | 0.074 |
| 2009 | 190 | Mean | 0.321 | 0.166 | 0.195 | 0.094 | 0.222 |
|  |  | SD | 0.047 | 0.033 | 0.046 | 0.035 | 0.035 |
|  |  | CI05 | 0.245 | 0.114 | 0.122 | 0.048 | 0.166 |
|  |  | CI95 | 0.400 | 0.224 | 0.275 | 0.164 | 0.280 |
| 2010 | 201 | Mean | 0.206 | 0.257 | 0.340 | 0.116 | 0.080 |
|  |  | SD | 0.044 | 0.038 | 0.053 | 0.030 | 0.020 |
|  |  | CI05 | 0.136 | 0.197 | 0.254 | 0.070 | 0.050 |
|  |  | C195 | 0.281 | 0.321 | 0.429 | 0.168 | 0.115 |
| 2011 | 199 | Mean | 0.237 | 0.099 | 0.272 | 0.133 | 0.259 |
|  |  | SD | 0.047 | 0.028 | 0.061 | 0.037 | 0.037 |
|  |  | CI05 | 0.162 | 0.055 | 0.176 | 0.075 | 0.201 |
|  |  | C195 | 0.317 | 0.148 | 0.377 | 0.197 | 0.322 |
| 2012 | 201 | Mean | 0.165 | 0.326 | 0.259 | 0.119 | 0.132 |
|  |  | SD | 0.043 | 0.042 | 0.053 | 0.031 | 0.032 |
|  |  | CI05 | 0.095 | 0.258 | 0.176 | 0.071 | 0.083 |
|  |  | CI95 | 0.237 | 0.396 | 0.350 | 0.174 | 0.189 |

Appendix G. 4. Annual estimates of large Chinook salmon harvested in the Alaskan District 108 sport fisheries, 2012.
CI05 is the lower credibility interval and CI95 is the upper credibility interval.

|  |  |  | 5 Reporting Groups |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Sample Size | Statistic | Taku | Andrew | Stikine | SSEAK | Other |
| 2010 | 72 | Estimate | 221 | 275 | 364 | 125 | 86 |
|  |  | SD | 47 | 41 | 57 | 32 | 21 |
|  |  | CI05 | 146 | 211 | 272 | 76 | 54 |
|  |  | CI95 | 301 | 344 | 460 | 180 | 124 |
| 2011 | 70 | Estimate | 303 | 126 | 348 | 170 | 331 |
|  |  | SD | 60 | 36 | 78 | 48 | 47 |
|  |  | CI05 | 207 | 71 | 225 | 96 | 257 |
|  |  | CI95 | 405 | 189 | 482 | 252 | 412 |
| 2012 | 202 | Estimate | 237 | 468 | 372 | 171 | 189 |
|  |  | SD | 62 | 61 | 76 | 45 | 46 |
|  |  | CI05 | 136 | 370 | 253 | 102 | 120 |
|  |  | CI95 | 341 | 569 | 503 | 250 | 272 |

Appendix G. 5. Annual stock proportion estimates (mean) of large Chinook salmon harvested in the Alaskan District 111 commercial drift gillnet, 2012. CI05 is the lower credibility interval and CI95 is the upper credibility interval.

| Year | Sample Size | Statistic | 5 Reporting Groups |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Taku | Andrew | Stikine | SSEAK | Other |
| 2005 | 247 | Mean | 0.914 | 0.073 | 0.005 | 0.000 | 0.008 |
|  |  | SD | 0.023 | 0.020 | 0.011 | 0.001 | 0.006 |
|  |  | CI05 | 0.874 | 0.043 | 0.000 | 0.000 | 0.001 |
|  |  | CI95 | 0.947 | 0.109 | 0.028 | 0.000 | 0.020 |
| 2006 | 209 | Mean | 0.878 | 0.085 | 0.027 | 0.010 | 0.000 |
|  |  | SD | 0.026 | 0.023 | 0.015 | 0.008 | 0.002 |
|  |  | CI05 | 0.833 | 0.051 | 0.005 | 0.001 | 0.000 |
|  |  | CI95 | 0.918 | 0.125 | 0.055 | 0.025 | 0.002 |
| 2007 | 96 | Mean | 0.491 | 0.490 | 0.001 | 0.015 | 0.003 |
|  |  | SD | 0.054 | 0.054 | 0.007 | 0.015 | 0.007 |
|  |  | CI05 | 0.402 | 0.402 | 0.000 | 0.000 | 0.000 |
|  |  | CI95 | 0.580 | 0.579 | 0.005 | 0.045 | 0.016 |
| 2008 | 104 | Mean | 0.482 | 0.360 | 0.001 | 0.071 | 0.086 |
|  |  | SD | 0.053 | 0.051 | 0.007 | 0.028 | 0.028 |
|  |  | CI05 | 0.395 | 0.278 | 0.000 | 0.030 | 0.046 |
|  |  | CI95 | 0.569 | 0.446 | 0.001 | 0.121 | 0.136 |
| 2009 | 257 | Mean | 0.809 | 0.185 | 0.004 | 0.001 | 0.001 |
|  |  | SD | 0.031 | 0.027 | 0.015 | 0.006 | 0.003 |
|  |  | CI05 | 0.755 | 0.143 | 0.000 | 0.000 | 0.000 |
|  |  | CI95 | 0.854 | 0.231 | 0.034 | 0.011 | 0.005 |
| 2010 | 152 | Mean | 0.537 | 0.448 | 0.002 | 0.000 | 0.013 |
|  |  | SD | 0.043 | 0.042 | 0.008 | 0.001 | 0.009 |
|  |  | CI05 | 0.466 | 0.378 | 0.000 | 0.000 | 0.002 |
|  |  | CI95 | 0.607 | 0.518 | 0.011 | 0.000 | 0.031 |
| 2011 | 70 | Mean | 0.808 | 0.162 | 0.001 | 0.001 | 0.028 |
|  |  | SD | 0.052 | 0.049 | 0.007 | 0.004 | 0.020 |
|  |  | CI05 | 0.717 | 0.089 | 0.000 | 0.000 | 0.005 |
|  |  | CI95 | 0.887 | 0.249 | 0.003 | 0.001 | 0.066 |
| 2012 | 206 | Mean | 0.873 | 0.120 | 0.003 | 0.001 | 0.003 |
|  |  | SD | 0.029 | 0.026 | 0.011 | 0.002 | 0.006 |
|  |  | CI05 | 0.823 | 0.079 | 0.000 | 0.000 | 0.000 |
|  |  | CI95 | 0.917 | 0.166 | 0.026 | 0.003 | 0.015 |

Appendix G. 6. Annual estimates of large Chinook salmon harvested in the Alaskan
District 111 commercial drift gillnet, 2012.
CI05 is the lower credibility interval and CI95 is the upper credibility interval.

|  |  |  | 5 Reporting Groups |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Sample Size | Statistic | Taku | Andrew | Stikine | SSEAK | Other |
| 2010 | 72 | Estimate | 524 | 436 | 2 | 0 | 13 |
|  |  | SD | 42 | 41 | 7 | 1 | 9 |
|  |  | CI05 | 454 | 369 | 0 | 0 | 2 |
|  |  | CI95 | 592 | 505 | 11 | 0 | 31 |
| 2011 | 70 | Estimate | 518 | 104 | 1 | 0 | 18 |
|  |  | SD | 33 | 31 | 4 | 3 | 13 |
|  |  | CI05 | 459 | 57 | 0 | 0 | 3 |
|  |  | CI95 | 568 | 160 | 2 | 1 | 43 |
| 2012 | 202 | Estimate | 665 | 91 | 2 | 0 | 3 |
|  |  | SD | 22 | 20 | 8 | 1 | 4 |
|  |  | CI05 | 627 | 60 | 0 | 0 | 0 |
|  |  | CI95 | 699 | 126 | 19 | 3 | 11 |

Appendix G. 7. Annual stock proportion estimates (mean) of large Chinook salmon harvested in the Alaskan District 111 sport fisheries, 2012.
CI05 is the lower credibility interval and CI95 is the upper credibility interval.
5 Reporting Groups

| Year | Sample Size | Statistic | Taku | Andrew | Stikine | SSEAK | Other |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2005 | 264 | Mean | 0.563 | 0.376 | 0.015 | 0.028 | 0.018 |
|  |  | SD | 0.041 | 0.034 | 0.029 | 0.016 | 0.009 |
|  |  | CI05 | 0.491 | 0.320 | 0.000 | 0.009 | 0.006 |
|  |  | CI95 | 0.626 | 0.433 | 0.081 | 0.059 | 0.035 |
| 2006 | 269 | Mean | 0.600 | 0.312 | 0.052 | 0.008 | 0.027 |
|  |  | SD | 0.036 | 0.031 | 0.022 | 0.008 | 0.010 |
|  |  | CI05 | 0.540 | 0.262 | 0.020 | 0.000 | 0.013 |
|  |  | CI95 | 0.659 | 0.365 | 0.092 | 0.025 | 0.045 |
| 2007 | 237 | Mean | 0.424 | 0.523 | 0.027 | 0.000 | 0.025 |
|  |  | SD | 0.043 | 0.035 | 0.032 | 0.003 | 0.011 |
|  |  | CI05 | 0.352 | 0.466 | 0.000 | 0.000 | 0.010 |
|  |  | CI95 | 0.493 | 0.581 | 0.089 | 0.000 | 0.044 |
| 2008 | 218 | Mean | 0.224 | 0.763 | 0.002 | 0.000 | 0.010 |
|  |  | SD | 0.031 | 0.032 | 0.006 | 0.001 | 0.007 |
|  |  | CI05 | 0.174 | 0.709 | 0.000 | 0.000 | 0.002 |
|  |  | CI95 | 0.278 | 0.814 | 0.016 | 0.000 | 0.024 |
| 2009 | 239 | Mean | 0.254 | 0.726 | 0.001 | 0.000 | 0.018 |
|  |  | SD | 0.031 | 0.031 | 0.006 | 0.001 | 0.009 |
|  |  | CI05 | 0.205 | 0.674 | 0.000 | 0.000 | 0.006 |
|  |  | CI95 | 0.306 | 0.776 | 0.002 | 0.000 | 0.035 |
| 2010 | 200 | Mean | 0.453 | 0.501 | 0.001 | 0.000 | 0.045 |
|  |  | SD | 0.038 | 0.038 | 0.004 | 0.001 | 0.015 |
|  |  | CI05 | 0.390 | 0.439 | 0.000 | 0.000 | 0.024 |
|  |  | CI95 | 0.515 | 0.564 | 0.000 | 0.000 | 0.072 |
| 2011 | 200 | Mean | 0.435 | 0.500 | 0.019 | 0.019 | 0.027 |
|  |  | SD | 0.046 | 0.040 | 0.030 | 0.013 | 0.014 |
|  |  | CI05 | 0.358 | 0.435 | 0.000 | 0.000 | 0.008 |
|  |  | CI95 | 0.509 | 0.566 | 0.082 | 0.043 | 0.053 |
| 2012 | 200 | Mean | 0.493 | 0.480 | 0.001 | 0.004 | 0.021 |
|  |  | SD | 0.040 | 0.040 | 0.007 | 0.011 | 0.011 |
|  |  | CI05 | 0.427 | 0.414 | 0.000 | 0.000 | 0.007 |
|  |  | CI95 | 0.558 | 0.547 | 0.006 | 0.030 | 0.042 |

Appendix G. 8. Annual estimates of large Chinook salmon harvested in the Alaskan District 111 sport fisheries, 2012.
CI05 is the lower credibility interval and CI95 is the upper credibility interval.

|  |  | 5 Reporting Groups |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Sample Size | Statistic | Taku | Andrew | Stikine | SSEAK | Other |
| 2010 | 72 | Estimate | 983 | 1,089 | 1 | 0 | 99 |
|  |  | SD | 83 | 83 | 8 | 2 | 32 |
|  |  | CI05 | 848 | 953 | 0 | 0 | 52 |
|  |  | CI95 | 1,120 | 1,225 | 1 | 0 | 157 |
| 2011 | 70 | Estimate | 549 | 631 | 24 | 23 | 34 |
|  |  | SD | 58 | 50 | 38 | 17 | 17 |
|  |  | CI05 | 452 | 548 | 0 | 0 | 10 |
|  |  | CI95 | 642 | 713 | 103 | 55 | 67 |
|  |  | Estimate | 670 | 653 | 2 | 6 | 29 |
|  |  | SD | 54 | 55 | 9 | 15 | 15 |
|  | 202 | CI05 | 581 | 562 | 0 | 0 | 9 |
|  |  | CI95 | 758 | 743 | 8 | 40 | 57 |


| Appendix G. 9. Weekly stock proportion estimates (mean) of sockeye salmon harvested in the Alaskan Subdistrict 106-41/42 (Sumner Strait) commercial drift gillnet fishery, 2012. |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CI05 is the lower credibility interval and CI95 is the upper credibility interval. |  |  |  |  |  |  |  |  |  |  |
| SW | Sample Sizes |  |  |  | Statistic | 5 Reporting Groups |  |  |  |  |
|  | Total | Genotyped | Aged (not genotyped) | Otolith Marked (not genotyped) |  | Enhance <br> Tahltan | Enhance <br> Tuya | Stikine/Taku |  |  |
|  |  |  |  |  |  |  |  | Other | Mainstem | Tahltan |
| 25 | 380 | 61 | 169 | 150 | Mean | 0.118 | 0.276 | 0.319 | 0.074 | 0.213 |
|  |  |  |  |  | SD | 0.017 | 0.023 | 0.039 | 0.025 | 0.035 |
|  |  |  |  |  | CI05 | 0.092 | 0.239 | 0.255 | 0.036 | 0.157 |
|  |  |  |  |  | C195 | 0.146 | 0.314 | 0.384 | 0.119 | 0.273 |
|  |  |  |  |  | $\mathrm{P}=0$ | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 26 | 398 | 65 | 172 | 161 | Mean | 0.073 | 0.331 | 0.365 | 0.146 | 0.085 |
|  |  |  |  |  | SD | 0.013 | 0.024 | 0.038 | 0.033 | 0.025 |
|  |  |  |  |  | CI05 | 0.053 | 0.293 | 0.304 | 0.094 | 0.049 |
|  |  |  |  |  | CI95 | 0.095 | 0.370 | 0.428 | 0.202 | 0.129 |
|  |  |  |  |  | $\mathrm{P}=0$ | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 27 | 516 | 164 | 242 | 110 | Mean | 0.017 | 0.176 | 0.636 | 0.137 | 0.034 |
|  |  |  |  |  | SD | 0.006 | 0.017 | 0.028 | 0.023 | 0.013 |
|  |  |  |  |  | CI05 | 0.009 | 0.149 | 0.589 | 0.101 | 0.016 |
|  |  |  |  |  | CI95 | 0.028 | 0.204 | 0.681 | 0.176 | 0.057 |
|  |  |  |  |  | $\mathrm{P}=0$ | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 28 | 260 | 174 | 52 | 34 | Mean | 0.015 | 0.069 | 0.800 | 0.106 | 0.010 |
|  |  |  |  |  | SD | 0.008 | 0.016 | 0.029 | 0.025 | 0.007 |
|  |  |  |  |  | CI05 | 0.005 | 0.045 | 0.750 | 0.068 | 0.002 |
|  |  |  |  |  | CI95 | 0.030 | 0.096 | 0.846 | 0.149 | 0.024 |
|  |  |  |  |  | $\mathrm{P}=0$ | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 29 | 277 | 178 | 67 | 32 | Mean | 0.007 | 0.018 | 0.868 | 0.097 | 0.010 |
|  |  |  |  |  | SD | 0.005 | 0.008 | 0.024 | 0.022 | 0.007 |
|  |  |  |  |  | CI05 | 0.001 | 0.007 | 0.827 | 0.063 | 0.002 |
|  |  |  |  |  | CI95 | 0.017 | 0.033 | 0.906 | 0.134 | 0.023 |
|  |  |  |  |  | $\mathrm{P}=0$ | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 30 | 516 | 207 | 265 | 44 | Mean | 0.002 | 0.002 | 0.945 | 0.047 | 0.005 |
|  |  |  |  |  | SD | 0.002 | 0.002 | 0.018 | 0.017 | 0.004 |
|  |  |  |  |  | CI05 | 0.000 | 0.000 | 0.914 | 0.020 | 0.000 |
|  |  |  |  |  | CI95 | 0.006 | 0.006 | 0.972 | 0.077 | 0.013 |
|  |  |  |  |  | $\mathrm{P}=0$ | 0.000 | 0.000 | 0.000 | 0.000 | 0.002 |
| 31 | 488 | 201 | 247 | 40 | Mean | 0.000 | 0.002 | 0.964 | 0.034 | 0.000 |
|  |  |  |  |  | SD | 0.000 | 0.002 | 0.012 | 0.012 | 0.000 |
|  |  |  |  |  | CI05 | 0.000 | 0.000 | 0.943 | 0.016 | 0.000 |
|  |  |  |  |  | CI95 | 0.000 | 0.006 | 0.982 | 0.055 | 0.000 |
|  |  |  |  |  | $\mathrm{P}=0$ | 0.940 | 0.000 | 0.000 | 0.000 | 0.935 |
| 32 | 238 | 151 | 58 | 29 | Mean | 0.000 | 0.000 | 0.995 | 0.005 | 0.000 |
|  |  |  |  |  | SD | 0.000 | 0.000 | 0.008 | 0.008 | 0.001 |
|  |  |  |  |  | CI05 | 0.000 | 0.000 | 0.977 | 0.000 | 0.000 |
|  |  |  |  |  | CI95 | 0.000 | 0.000 | 1.000 | 0.023 | 0.000 |
|  |  |  |  |  | $\mathrm{P}=0$ | 0.936 | 0.934 | 0.000 | 0.188 | 0.933 |
| 33 | 27 | 19 | 8 | 0 | Mean | 0.000 | 0.000 | 0.992 | 0.007 | 0.000 |
|  |  |  |  |  | SD | 0.003 | 0.003 | 0.020 | 0.019 | 0.004 |
|  |  |  |  |  | CI05 | 0.000 | 0.000 | 0.955 | 0.000 | 0.000 |
|  |  |  |  |  | CI95 | 0.000 | 0.000 | 1.000 | 0.041 | 0.000 |
|  |  |  |  |  | $\mathrm{P}=0$ | 0.920 | 0.919 | 0.000 | 0.226 | 0.917 |

Appendix G. 10. Weekly stock proportion estimates (mean) of sockeye salmon harvested in the Alaskan Subdistrict 106-41/42 (Sumner Strait) commercial drift gillnet fishery, 2012.

| Estin CI05 | tes reported re is the lower cr | epresent dibility int | ly SW with <br> rval and CI | GSI estimat <br> 5 is the upp | $\begin{aligned} & \text { es--will } \\ & \text { eer cred } \end{aligned}$ | t sum to sea <br> ity interval. | on total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | 5 R | porting | roups |  |
|  |  |  | Enhanced | Enhanced |  | Stikine/Taku |  |
| SW | Sample Sizes | Statistic | Tahltan | Tuya | Other | Mainstem | Tahltan |
| 25 | 380 | Mean | 357 | 832 | 963 | 224 | 644 |
|  |  | SD | 50 | 69 | 118 | 76 | 106 |
|  |  | CI05 | 278 | 721 | 771 | 110 | 475 |
|  |  | CI95 | 442 | 947 | 1,158 | 360 | 825 |
| 26 | 398 | Mean | 277 | 1,262 | 1,393 | 556 | 326 |
|  |  | SD | 49 | 90 | 143 | 125 | 94 |
|  |  | CI05 | 201 | 1,117 | 1,161 | 357 | 186 |
|  |  | CI95 | 363 | 1,412 | 1,632 | 769 | 492 |
| 27 | 516 | Mean | 84 | 849 | 3,065 | 660 | 164 |
|  |  | SD | 28 | 81 | 135 | 109 | 60 |
|  |  | CI05 | 44 | 720 | 2,839 | 488 | 78 |
|  |  | CI95 | 134 | 985 | 3,283 | 846 | 274 |
| 28 | 260 | Mean | 48 | 215 | 2,498 | 331 | 31 |
|  |  | SD | 24 | 49 | 92 | 77 | 22 |
|  |  | CI05 | 17 | 142 | 2,342 | 213 | 6 |
|  |  | CI95 | 92 | 301 | 2,643 | 465 | 74 |
| 29 | 277 | Mean | 48 | 120 | 5,780 | 642 | 66 |
|  |  | SD | 34 | 53 | 160 | 144 | 46 |
|  |  | CI05 | 9 | 48 | 5,504 | 421 | 12 |
|  |  | CI95 | 114 | 218 | 6,028 | 895 | 156 |
| 30 | 516 | Mean | 10 | 10 | 4,972 | 245 | 24 |
|  |  | SD | 10 | 10 | 94 | 91 | 24 |
|  |  | CI05 | 1 | 1 | 4,807 | 108 | 1 |
|  |  | CI95 | 31 | 31 | 5,115 | 404 | 71 |
| 31 | 488 | Mean | 0 | 3 | 1,475 | 51 | 0 |
|  |  | SD | 0 | 3 | 19 | 18 | 1 |
|  |  | CI05 | 0 | 0 | 1,441 | 25 | 0 |
|  |  | CI95 | 0 | 9 | 1,501 | 84 | 0 |
| 32 | 238 | Mean | 0 | 0 | 984 | 5 | 0 |
|  |  | SD | 0 | 0 | 8 | 8 | 1 |
|  |  | CI05 | 0 | 0 | 966 | 0 | 0 |
|  |  | CI95 | 0 | 0 | 989 | 22 | 0 |
| 33 | 27 | Mean | 0 | 0 | 311 | 2 | 0 |
|  |  | SD | 1 | 1 | 6 | 6 | 1 |
|  |  | CI05 | 0 | 0 | 300 | 0 | 0 |
|  |  | CI95 | 0 | 0 | 314 | 13 | 0 |

Appendix G. 11. Weekly stock proportion estimates (mean) of sockeye salmon harvested in the Alaskan Subdistrict 106-30 (Clarence Strait) commercial drift gillnet fishery, 2012.

| CI05 is the lower credibility interval and CI95 is the upper credibility interval. |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| SW | Sample Sizes |  |  |  | Statistic | 5 Reporting Groups |  |  |  |  |
|  | Total | Genotyped | Aged (not genotyped) | Otolith Marked <br> (not genotyped) |  | Enhanced Tahltan | Enhanced Tuya | Stikine/Taku |  |  |
|  |  |  |  |  |  |  |  | Other | Mainstem | Tahltan |
| 25 | 336 | 75 | 249 | 12 | Mean | 0.012 | 0.024 | 0.936 | 0.028 | 0.000 |
|  |  |  |  |  | SD | 0.006 | 0.008 | 0.029 | 0.028 | 0.001 |
|  |  |  |  |  | CI05 | 0.004 | 0.012 | 0.878 | 0.000 | 0.000 |
|  |  |  |  |  | CI95 | 0.023 | 0.039 | 0.971 | 0.084 | 0.000 |
|  |  |  |  |  | $\mathrm{P}=0$ | 0.000 | 0.000 | 0.000 | 0.037 | 0.929 |
| 26 | 73 | 20 | 53 | 0 | Mean | 0.000 | 0.000 | 0.993 | 0.007 | 0.000 |
|  |  |  |  |  | SD | 0.001 | 0.001 | 0.018 | 0.018 | 0.004 |
|  |  |  |  |  | CI05 | 0.000 | 0.000 | 0.960 | 0.000 | 0.000 |
|  |  |  |  |  | CI95 | 0.000 | 0.000 | 1.000 | 0.038 | 0.000 |
|  |  |  |  |  | $\mathrm{P}=0$ | 0.927 | 0.926 | 0.000 | 0.222 | 0.917 |
| 27 | 512 | 122 | 382 | 8 | Mean | 0.004 | 0.006 | 0.962 | 0.028 | 0.000 |
|  |  |  |  |  | SD | 0.003 | 0.003 | 0.017 | 0.016 | 0.001 |
|  |  |  |  |  | CI05 | 0.001 | 0.002 | 0.932 | 0.006 | 0.000 |
|  |  |  |  |  | CI95 | 0.009 | 0.012 | 0.985 | 0.058 | 0.000 |
|  |  |  |  |  | $\mathrm{P}=0$ | 0.000 | 0.000 | 0.000 | 0.003 | 0.932 |
| 28 | 488 | 112 | 363 | 13 | Mean | 0.000 | 0.004 | 0.946 | 0.049 | 0.000 |
|  |  |  |  |  | SD | 0.000 | 0.003 | 0.033 | 0.033 | $0.001$ |
|  |  |  |  |  | CI05 | 0.000 | 0.001 | 0.888 | 0.000 | 0.000 |
|  |  |  |  |  | CI95 | 0.000 | 0.010 | 0.996 | 0.107 | 0.000 |
|  |  |  |  |  | $\mathrm{P}=0$ | 0.941 | 0.000 | 0.000 | 0.025 | 0.929 |
| 29 | 498 | 108 | 367 | 23 | Mean | 0.002 | 0.002 | 0.923 | 0.073 | 0.000 |
|  |  |  |  |  | SD | 0.002 | 0.002 | 0.025 | 0.025 | 0.001 |
|  |  |  |  |  | CI05 | 0.000 | 0.000 | 0.879 | 0.035 | 0.000 |
|  |  |  |  |  | CI95 | 0.006 | 0.006 | 0.961 | 0.116 | 0.000 |
|  |  |  |  |  | $\mathrm{P}=0$ | 0.000 | 0.000 | 0.000 | 0.000 | 0.932 |
| 30 | 504 | 101 | 330 | 73 | Mean | 0.000 | 0.000 | 0.983 | 0.017 | 0.000 |
|  |  |  |  |  | SD | $0.000$ | 0.000 | 0.023 | 0.023 | 0.001 |
|  |  |  |  |  | CI05 | 0.000 | 0.000 | 0.934 | 0.000 | 0.000 |
|  |  |  |  |  | CI95 | 0.000 | 0.000 | 1.000 | 0.066 | 0.000 |
|  |  |  |  |  | $\mathrm{P}=0$ | 0.940 | 0.942 | 0.000 | 0.153 | 0.931 |
| 31 | 500 | 109 | 305 | 86 | Mean | 0.000 | 0.000 | 0.988 | 0.012 | 0.000 |
|  |  |  |  |  | SD | 0.000 | 0.000 | 0.011 | 0.011 | 0.001 |
|  |  |  |  |  | CI05 | 0.000 | 0.000 | 0.967 | 0.000 | 0.000 |
|  |  |  |  |  | CI95 | 0.000 | 0.000 | 1.000 | 0.033 | 0.000 |
|  |  |  |  |  | $\mathrm{P}=0$ | 0.941 | 0.942 | 0.000 | 0.031 | 0.932 |
| 32 | 232 | 72 | 85 | 75 | Mean | 0.000 | 0.000 | 0.937 | 0.062 | 0.000 |
|  |  |  |  |  | SD | 0.000 | 0.000 | 0.024 | 0.024 | 0.001 |
|  |  |  |  |  | CI05 | 0.000 | 0.000 | 0.894 | 0.026 | 0.000 |
|  |  |  |  |  | CI95 | 0.000 | 0.000 | 0.974 | 0.106 | 0.000 |
|  |  |  |  |  | $\mathrm{P}=0$ | 0.935 | 0.936 | 0.000 | 0.000 | 0.928 |
| 33 | 174 | 68 | 68 | 38 | Mean | 0.000 | 0.000 | 0.998 | 0.002 | 0.000 |
|  |  |  |  |  | SD | 0.001 | 0.001 | 0.006 | 0.006 | 0.001 |
|  |  |  |  |  | CI05 | 0.000 | 0.000 | 0.987 | 0.000 | 0.000 |
|  |  |  |  |  | CI95 | 0.000 | 0.000 | 1.000 | 0.013 | 0.000 |
|  |  |  |  |  | $\mathrm{P}=0$ | 0.933 | 0.934 | 0.000 | 0.254 | 0.930 |
| 34 | 77 | 21 | 32 | 24 | Mean | 0.026 | 0.000 | 0.963 | 0.011 | 0.000 |
|  |  |  |  |  | SD | 0.018 | 0.001 | 0.033 | 0.028 | 0.002 |
|  |  |  |  |  | CI05 | 0.005 | 0.000 | 0.900 | 0.000 | 0.000 |
|  |  |  |  |  | CI95 | 0.060 | 0.000 | 0.994 | 0.066 | 0.000 |
|  |  |  |  |  | $\mathrm{P}=0$ | 0.000 | 0.928 | 0.000 | 0.216 | 0.921 |

Appendix G. 12. Weekly estimates of sockeye salmon harvested in the Alaskan Subdistrict 106-30 (Clarence Strait) commercial drift gillnet fishery, 2012.

| Estin $\mathrm{CI} 05$ | tes reported re the lower cre | epresent o dibility int | y SW with val and CI | GSI estimat 95 is the upp | es--will <br> er cred | ot sum to sea ility interval. | on total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | 5 Re | porting | Groups |  |
|  |  |  | Enhanced | Enhanced |  | Stikine/Taku |  |
| SW | Sample Sizes | Statistic | Tahltan | Tuya | Other | Mainstem | Tahltan |
| 25 | 336 | Mean | 8 | 15 | 595 | 18 | 0 |
|  |  | SD | 4 | 5 | 19 | 18 | 1 |
|  |  | CI05 | 3 | 8 | 559 | 0 | 0 |
|  |  | CI95 | 15 | 25 | 618 | 54 | 0 |
| 26 | 73 | Mean | 0 | 0 | 173 | 1 | 0 |
|  |  | SD | 0 | 0 | 3 | 3 | 1 |
|  |  | CI05 | 0 | 0 | 167 | 0 | 0 |
|  |  | CI95 | 0 | 0 | 174 | 7 | 0 |
| 27 | 512 | Mean | 10 | 15 | 2,425 | 70 | 0 |
|  |  | SD | 7 | 8 | 42 | 41 | 1 |
|  |  | CI05 | 2 | 4 | 2,348 | 16 | 0 |
|  |  | CI95 | 23 | 31 | 2,483 | 146 | 0 |
| 28 | 488 | Mean | 0 | 11 | 2,501 | 131 | 0 |
|  |  | SD | 0 | 8 | 87 | 86 | 2 |
|  |  | CI05 | 0 | 2 | 2,348 | 0 | 0 |
|  |  | CI95 | 0 | 26 | 2,632 | 284 | 0 |
| 29 | 498 | Mean | 5 | 5 | 2,328 | 183 | 0 |
|  |  | SD | 5 | 5 | 63 | 63 | 2 |
|  |  | CI05 | 0 | 0 | 2,218 | 89 | 0 |
|  |  | CI95 | 15 | 15 | 2,423 | 293 | 0 |
| 30 | 504 | Mean | 0 | 0 | 4,206 | 72 | 0 |
|  |  | SD | 1 | 1 | 100 | 100 | 3 |
|  |  | CI05 | 0 | 0 | 3,994 | 0 | 0 |
|  |  | CI95 | 0 | 0 | 4,278 | 283 | 0 |
| 31 | 500 | Mean | 0 | 0 | 1,261 | 15 | 0 |
|  |  | SD | 0 | 0 | 14 | 14 | 1 |
|  |  | CI05 | 0 | 0 | 1,233 | 0 | 0 |
|  |  | CI95 | 0 | 0 | 1,276 | 43 | 0 |
| 32 | 232 | Mean | 0 | 0 | 683 | 46 | 0 |
|  |  | SD | 0 | 0 | 18 | 18 | 1 |
|  |  | CI05 | 0 | 0 | 652 | 19 | 0 |
|  |  | CI95 | 0 | 0 | 710 | 77 | 0 |
| 33 | 174 | Mean | 0 | 0 | 657 | 2 | 0 |
|  |  | SD | 0 | 0 | 4 | 4 | 1 |
|  |  | CI05 | 0 | 0 | 650 | 0 | 0 |
|  |  | CI95 | 0 | 0 | 659 | 8 | 0 |
| 34 | 77 | Mean | 5 | 0 | 179 | 2 | 0 |
|  |  | SD | 3 | 0 | 6 | 5 | 0 |
|  |  | CI05 | 1 | 0 | 167 | 0 | 0 |
|  |  | CI95 | 11 | 0 | 185 | 12 | 0 |

Appendix G. 13. Weekly stock proportion estimates (mean) of sockeye salmon harvested in the Alaskan District 108 commercial drift gillnet fishery, 2012.

| SW | Sample Sizes |  |  |  | Statistic | 5 Reporting Groups |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total | Genotyped | Aged <br> (not genotyped) | Otolith Marked (not genotyped) |  | Enhanced Tahltan | Enhanced Tuya | Other | Stikine/Taku <br> Mainstem | Tahltan |
| 25 | 419 | 212 | 1 | 206 | Mean | 0.184 | 0.340 | 0.067 | 0.166 | 0.242 |
|  |  |  |  |  | SD | 0.021 | 0.026 | 0.014 | 0.021 | 0.022 |
|  |  |  |  |  | CI05 | 0.151 | 0.298 | 0.046 | 0.133 | 0.206 |
|  |  |  |  |  | CI95 | 0.220 | 0.384 | 0.093 | 0.203 | 0.279 |
|  |  |  |  |  | $\mathrm{P}=0$ | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 26 | 419 | 194 | 0 | 225 | Mean | 0.125 | 0.429 | 0.069 | 0.170 | 0.207 |
|  |  |  |  |  | SD | 0.017 | 0.026 | 0.015 | 0.020 | 0.022 |
|  |  |  |  |  | CI05 | 0.098 | 0.386 | 0.046 | 0.138 | 0.173 |
|  |  |  |  |  | CI95 | 0.155 | 0.472 | 0.095 | 0.205 | 0.244 |
|  |  |  |  |  | $\mathrm{P}=0$ | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 27 | 445 | 259 | 2 | 184 | Mean | 0.068 | 0.341 | 0.082 | 0.361 | 0.148 |
|  |  |  |  |  | SD | 0.012 | 0.022 | 0.014 | 0.023 | 0.017 |
|  |  |  |  |  | CI05 | 0.049 | 0.306 | 0.060 | 0.323 | 0.121 |
|  |  |  |  |  | CI95 | 0.088 | 0.377 | 0.106 | 0.400 | 0.176 |
|  |  |  |  |  | $\mathrm{P}=0$ | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 28 | 338 | 280 | 0 | 58 | Mean | 0.026 | 0.152 | 0.080 | 0.661 | 0.081 |
|  |  |  |  |  | SD | 0.009 | 0.019 | 0.015 | 0.026 | 0.015 |
|  |  |  |  |  | CI05 | 0.014 | 0.122 | 0.057 | 0.618 | 0.058 |
|  |  |  |  |  | CI95 | 0.042 | 0.184 | 0.106 | 0.703 | 0.106 |
|  |  |  |  |  | $\mathrm{P}=0$ | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 29 | 417 | 382 | 2 | 33 | Mean | 0.006 | 0.038 | 0.283 | 0.650 | 0.022 |
|  |  |  |  |  | SD | 0.004 | 0.010 | 0.022 | 0.023 | 0.007 |
|  |  |  |  |  | CI05 | 0.002 | 0.024 | 0.247 | 0.613 | 0.012 |
|  |  |  |  |  | CI95 | 0.013 | 0.055 | 0.320 | 0.688 | 0.035 |
|  |  |  |  |  | $\mathrm{P}=0$ | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 30 | 299 | 284 | 2 | 13 | Mean | 0.010 | 0.024 | 0.182 | 0.771 | 0.013 |
|  |  |  |  |  | SD | 0.008 | 0.010 | 0.029 | 0.030 | 0.008 |
|  |  |  |  |  | CI05 | 0.002 | 0.011 | 0.136 | 0.721 | 0.003 |
|  |  |  |  |  | CI95 | 0.026 | 0.042 | 0.231 | 0.819 | 0.029 |
|  |  |  |  |  | $\mathrm{P}=0$ | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 31 | 77 | 69 | 0 | 8 | Mean | 0.000 | 0.000 | 0.572 | 0.427 | 0.000 |
|  |  |  |  |  | SD | 0.002 | 0.002 | 0.057 | 0.057 | 0.002 |
|  |  |  |  |  | CI05 | 0.000 | 0.000 | 0.479 | 0.334 | 0.000 |
|  |  |  |  |  | CI95 | 0.000 | 0.000 | 0.665 | 0.521 | 0.000 |
|  |  |  |  |  | $\mathrm{P}=0$ | 0.858 | 0.858 | 0.000 | 0.000 | 0.859 |
| 32 | 73 | 65 | 0 | 8 | Mean | 0.000 | 0.014 | 0.246 | 0.740 | 0.000 |
|  |  |  |  |  | SD | 0.001 | 0.013 | 0.051 | 0.052 | 0.001 |
|  |  |  |  |  | CI05 | 0.000 | 0.001 | 0.167 | 0.651 | 0.000 |
|  |  |  |  |  | CI95 | 0.000 | 0.040 | 0.334 | 0.821 | 0.000 |
|  |  |  |  |  | $\mathrm{P}=0$ | 0.927 | 0.000 | 0.000 | 0.000 | 0.927 |
| 33 | 36 | 33 | 0 | 3 | Mean | 0.000 | 0.000 | 0.483 | 0.515 | 0.000 |
|  |  |  |  |  | SD | 0.003 | 0.003 | 0.074 | 0.074 | 0.003 |
|  |  |  |  |  | CIO5 | 0.000 | 0.000 | 0.355 | 0.399 | 0.000 |
|  |  |  |  |  | CI95 | 0.001 | 0.001 | 0.600 | 0.643 | 0.001 |
|  |  |  |  |  | $P=0$ | 0.851 | 0.850 | 0.000 | 0.000 | 0.852 |

Appendix G. 14. Weekly estimates of sockeye salmon harvested in the Alaskan District 108 commercial drift gillnet fishery, 2012.
Estimates reported represent only SW with GSI estimates--will not sum to season total CI05 is the lower credibility interval and CI95 is the upper credibility interval.

| SW | Sample Sizes | Statistic | 5 Reporting Groups |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Enhanced | Enhanced |  | Stikine/Taku |  |
|  |  |  | Tahltan | Tuya | Other | Mainstem | Tahltan |
| 25 | 419 | Mean | 586 | 1,083 | 214 | 529 | 769 |
|  |  | SD | 66 | 83 | 46 | 68 | 71 |
|  |  | CI05 | 481 | 949 | 145 | 422 | 655 |
|  |  | CI95 | 699 | 1,221 | 295 | 645 | 889 |
| 26 | 419 | Mean | 346 | 1,186 | 190 | 470 | 572 |
|  |  | SD | 48 | 73 | 42 | 56 | 59 |
|  |  | CI05 | 271 | 1,066 | 126 | 380 | 478 |
|  |  | CI95 | 428 | 1,305 | 263 | 566 | 673 |
| 27 | 445 | Mean | 283 | 1,425 | 342 | 1,509 | 617 |
|  |  | SD | 50 | 91 | 59 | 97 | 70 |
|  |  | CI05 | 206 | 1,277 | 250 | 1,351 | 505 |
|  |  | CI95 | 369 | 1,576 | 443 | 1,670 | 736 |
| 28 | 338 | Mean | 102 | 588 | 309 | 2,555 | 312 |
|  |  | SD | 34 | 73 | 59 | 99 | 57 |
|  |  | CI05 | 54 | 472 | 219 | 2,391 | 223 |
|  |  | C195 | 163 | 711 | 411 | 2,716 | 411 |
| 29 | 417 | Mean | 22 | 131 | 975 | 2,239 | 76 |
|  |  | SD | 13 | 33 | 76 | 79 | 25 |
|  |  | CI05 | 6 | 81 | 851 | 2,109 | 40 |
|  |  | CI95 | 46 | 189 | 1,101 | 2,368 | 122 |
| 30 | 299 | Mean | 32 | 73 | 567 | 2,401 | 41 |
|  |  | SD | 25 | 31 | 90 | 93 | 26 |
|  |  | CI05 | 5 | 33 | 422 | 2,247 | 10 |
|  |  | CI95 | 81 | 130 | 720 | 2,553 | 91 |
| 31 | 77 | Mean | 0 | 0 | 487 | 363 | 0 |
|  |  | SD | 1 | 1 | 48 | 48 | 1 |
|  |  | CI05 | 0 | 0 | 407 | 284 | 0 |
|  |  | CI95 | 0 | 0 | 566 | 443 | 0 |
| 32 | 73 | Mean | 0 | 4 | 76 | 227 | 0 |
|  |  | SD | 0 | 4 | 16 | 16 | 0 |
|  |  | CI05 | 0 | 0 | 51 | 200 | 0 |
|  |  | CI95 | 0 | 12 | 103 | 252 | 0 |
| 33 | 36 | Mean | 0 | 0 | 83 | 88 | 0 |
|  |  | SD | 1 | 1 | 13 | 13 | 1 |
|  |  | CI05 | 0 | 0 | 61 | 68 | 0 |
|  |  | CI95 | 0 | 0 | 103 | 110 | 0 |

Appendix G. 15. Weekly stock proportion estimates (mean) of sockeye salmon harvested in the Alaskan District 111 traditional commercial drift gillnet fishery
by week, 2012.

| CI05 is the lower credibility interval and CI95 is the upper credibility interval. |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Sample Sizes |  |  |  |  | 8 Reporting Groups |  |  |  |  |  |  |  |
| SW | Total | Genotyped | Aged (not genotyped) | Otolith Marked (not genotyped) | Statistic | Enhanced Snettisham | Enhanced Stikine | Enhanced <br> Tatsamenie | Enhanced <br> Trapper | Other | Snettisham | Stikine/Taku <br> Mainstem | Taku <br> Lakes |
| 25 | 98 | 54 | 42 | 2 | Mean | 0.000 | 0.010 | 0.000 | 0.010 | 0.039 | 0.003 | 0.551 | 0.387 |
|  |  |  |  |  | SD | 0.001 | 0.010 | 0.001 | 0.010 | 0.028 | 0.012 | 0.060 | 0.057 |
|  |  |  |  |  | CIO5 | 0.000 | 0.001 | 0.000 | 0.001 | 0.006 | 0.000 | 0.450 | 0.295 |
|  |  |  |  |  | CI95 | 0.000 | 0.030 | 0.000 | 0.030 | 0.094 | 0.020 | 0.648 | 0.483 |
|  |  |  |  |  | $P=0$ | 0.930 | 0.000 | 0.929 | 0.000 | 0.000 | 0.783 | 0.000 | 0.000 |
| 26 | 49 | 25 | 21 | 3 | Mean | 0.000 | 0.060 | 0.000 | 0.000 | 0.219 | 0.001 | 0.309 | 0.411 |
|  |  |  |  |  | SD | 0.002 | 0.033 | 0.002 | 0.002 | 0.083 | 0.005 | 0.091 | 0.085 |
|  |  |  |  |  | CIO5 | 0.000 | 0.017 | 0.000 | 0.000 | 0.098 | 0.000 | 0.164 | 0.274 |
|  |  |  |  |  | CI95 | $0.000$ | 0.123 | $0.000$ | 0.000 | 0.370 | 0.001 | 0.462 | 0.555 |
|  |  |  |  |  | $P=0$ | 0.924 | 0.000 | 0.924 | 0.924 | 0.000 | 0.846 | 0.000 | 0.000 |
| 27 | 260 | 112 | 131 | 17 | Mean | 0.004 | 0.015 | 0.004 | 0.042 | 0.026 | 0.000 | 0.212 | 0.697 |
|  |  |  |  |  | SD | 0.004 | 0.008 | 0.004 | 0.012 | 0.016 | 0.002 | 0.040 | 0.042 |
|  |  |  |  |  | CI05 | 0.000 | 0.005 | 0.000 | 0.024 | 0.006 | 0.000 | 0.149 | 0.626 |
|  |  |  |  |  | CI95 | 0.012 | 0.030 | 0.012 | 0.064 | 0.056 | 0.000 | 0.279 | 0.765 |
|  |  |  |  |  | $\mathrm{P}=0$ | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.860 | 0.000 | 0.000 |
| 28 | 379 | 152 | 170 | 57 | Mean | 0.063 | 0.011 | 0.024 | 0.053 | 0.017 | 0.004 | 0.401 | 0.427 |
|  |  |  |  |  | SD | 0.012 | 0.005 | 0.008 | 0.011 | 0.010 | 0.008 | 0.035 | 0.035 |
|  |  |  |  |  | CI05 | 0.044 | 0.004 | 0.012 | 0.035 | 0.005 | 0.000 | 0.344 | 0.371 |
|  |  |  |  |  | CI95 | 0.085 | 0.020 | 0.038 | 0.073 | 0.037 | 0.021 | 0.459 | 0.485 |
|  |  |  |  |  | $\mathrm{P}=0$ | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.585 | 0.000 | 0.000 |
| 29 | 341 | 140 | 104 | 97 | Mean | 0.234 | 0.000 | 0.041 | 0.006 | 0.035 | 0.050 | 0.398 | 0.236 |
|  |  |  |  |  | SD | 0.023 | 0.000 | 0.011 | 0.004 | 0.015 | 0.019 | 0.035 | 0.030 |
|  |  |  |  |  | CI05 | 0.197 | 0.000 | 0.025 | 0.001 | 0.014 | 0.023 | 0.340 | 0.187 |
|  |  |  |  |  | C195 | 0.273 | 0.000 | 0.060 | 0.014 | 0.061 | 0.085 | 0.456 | 0.287 |
|  |  |  |  |  | $\mathrm{P}=0$ | 0.000 | 0.881 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 30 | 768 | 155 | 136 | 477 | Mean | 0.563 | 0.000 | 0.026 | 0.002 | 0.047 | 0.040 | 0.272 | 0.050 |
|  |  |  |  |  | SD | 0.018 | 0.000 | 0.006 | 0.002 | 0.010 | 0.012 | 0.022 | 0.013 |
|  |  |  |  |  | CI05 | 0.533 | 0.000 | 0.017 | 0.000 | 0.032 | 0.022 | 0.236 | 0.030 |
|  |  |  |  |  | CI95 | 0.593 | 0.000 | 0.037 | 0.005 | 0.066 | 0.062 | 0.307 | 0.071 |
|  |  |  |  |  | $\mathrm{P}=0$ | 0.000 | 0.796 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 31 | 684 | 189 | 150 | 345 | Mean | 0.432 | 0.000 | 0.040 | 0.000 | 0.099 | 0.040 | 0.310 | 0.079 |
|  |  |  |  |  | SD | 0.018 | 0.000 | 0.008 | 0.000 | 0.015 | 0.011 | 0.022 | 0.014 |
|  |  |  |  |  | CI05 | 0.402 | 0.000 | 0.028 | 0.000 | 0.076 | 0.024 | 0.274 | 0.058 |
|  |  |  |  |  | CI95 | 0.463 | 0.000 | 0.053 | 0.000 | 0.124 | 0.060 | 0.346 | 0.103 |
|  |  |  |  |  | $\mathrm{P}=0$ | 0.000 | 0.793 | 0.000 | 0.889 | 0.000 | 0.000 | 0.000 | 0.000 |
| 32 | 670 | 69 | 99 | 502 | Mean | 0.821 | 0.000 | 0.015 | 0.000 | 0.046 | 0.033 | 0.049 | 0.036 |
|  |  |  |  |  | SD | 0.013 | 0.000 | 0.004 | 0.000 | 0.012 | 0.011 | 0.007 | 0.008 |
|  |  |  |  |  | CI05 | 0.799 | 0.000 | 0.010 | 0.000 | 0.027 | 0.017 | 0.038 | 0.025 |
|  |  |  |  |  | CI95 | 0.841 | 0.000 | 0.021 | 0.000 | 0.067 | 0.052 | 0.062 | 0.051 |
|  |  |  |  |  | $\mathrm{P}=0$ | 0.000 | 0.796 | 0.000 | 0.892 | 0.000 | 0.000 | 0.000 | 0.000 |
| 33 | 471 | 73 | 111 | 287 | Mean | 0.565 | 0.000 | 0.040 | 0.000 | 0.059 | 0.038 | 0.222 | 0.076 |
|  |  |  |  |  | SD | 0.021 | 0.000 | 0.009 | 0.000 | 0.017 | 0.014 | 0.024 | 0.017 |
|  |  |  |  |  | CI05 | 0.530 | 0.000 | 0.027 | 0.000 | 0.034 | 0.018 | 0.184 | 0.049 |
|  |  |  |  |  | CI95 | 0.599 | 0.000 | 0.055 | 0.000 | 0.088 | 0.062 | 0.262 | 0.106 |
|  |  |  |  |  | $\mathrm{P}=0$ | 0.000 | 0.782 | 0.000 | 0.885 | 0.000 | 0.000 | 0.000 | 0.000 |

## Appendix G. 16. Weekly estimates of sockeye salmon harvested in the Alaskan District

 111 traditional commercial drift gillnet fishery by week, 2012.| Estimates reported represent only SW with GSI estimates--will not sum to season total CI05 is the lower credibility interval and CI95 is the upper credibility interval. |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| SW | Sample Sizes | Statistic | 8 Reporting Groups |  |  |  |  |  |  |  |
|  |  |  | Enhanced Snettisham | Enhanced Stikine | Enhanced <br> Tatsamenie | Enhanced Trapper | Other | Snettisham | Stikine/Taku <br> Mainstem | Taku <br> Lakes |
| 25 | 98 | Mean | 0 | 13 | 0 | 12 | 47 | 4 | 673 | 473 |
|  |  | SD | 1 | 12 | 1 | 12 | 35 | 14 | 74 | 70 |
|  |  | CI05 | 0 | 1 | 0 | 1 | 7 | 0 | 550 | 361 |
|  |  | CI95 | 0 | 37 | 0 | 37 | 115 | 25 | 791 | 590 |
| 26 | 49 | Mean | 0 | 87 | 0 | 0 | 315 | 1 | 446 | 593 |
|  |  | SD | 2 | 48 | 3 | 2 | 120 | 7 | 131 | 123 |
|  |  | CI05 | 0 | 25 | 0 | 0 | 141 | 0 | 236 | 395 |
|  |  | CI95 | 0 | 177 | 0 | 0 | 533 | 1 | 666 | 800 |
| 27 | 260 | Mean | 13 | 50 | 13 | 137 | 84 | 1 | 689 | 2,270 |
|  |  | SD | 12 | 25 | 13 | 40 | 51 | 5 | 129 | 137 |
|  |  | CI05 | 1 | 17 | 1 | 78 | 20 | 0 | 484 | 2,039 |
|  |  | CI95 | 38 | 97 | 38 | 210 | 182 | 1 | 909 | 2,491 |
| 28 | 379 | Mean | 320 | 54 | 120 | 266 | 88 | 19 | 2,032 | 2,163 |
|  |  | SD | 63 | 27 | 40 | 58 | 51 | 39 | 177 | 175 |
|  |  | CI05 | 223 | 19 | 63 | 178 | 23 | 0 | 1,741 | 1,879 |
|  |  | CI95 | 430 | 104 | 192 | 368 | 186 | 104 | 2,324 | 2,453 |
| 29 | 341 | Mean | 4,594 | 1 | 803 | 115 | 679 | 991 | 7,818 | 4,628 |
|  |  | SD | 449 | 7 | 210 | 81 | 287 | 373 | 693 | 592 |
|  |  | CI05 | 3,873 | 0 | 490 | 21 | 266 | 445 | 6,682 | 3,679 |
|  |  | CI95 | 5,351 | 1 | 1,176 | 273 | 1,198 | 1,660 | 8,959 | 5,626 |
| 30 | 768 | Mean | 18,464 | 1 | 868 | 53 | 1,554 | 1,324 | 8,907 | 1,627 |
|  |  | SD | 593 | 8 | 204 | 53 | 340 | 399 | 715 | 411 |
|  |  | CI05 | 17,489 | 0 | 561 | 3 | 1,041 | 731 | 7,733 | 999 |
|  |  | CI95 | 19,441 | 5 | 1,229 | 158 | 2,151 | 2,034 | 10,085 | 2,344 |
| 31 | 684 | Mean | 7,379 | 1 | 675 | 0 | 1,685 | 689 | 5,288 | 1,357 |
|  |  | SD | 315 | 4 | 133 | 3 | 254 | 188 | 375 | 233 |
|  |  | CI05 | 6,863 | 0 | 470 | 0 | 1,291 | 411 | 4,673 | 994 |
|  |  | CI95 | 7,902 | 3 | 906 | 1 | 2,124 | 1,024 | 5,905 | 1,758 |
| 32 | 670 | Mean | 26,131 | 1 | 470 | 1 | 1,468 | 1,047 | 1,564 | 1,156 |
|  |  | SD | 412 | 9 | 112 | 6 | 387 | 337 | 237 | 261 |
|  |  | CI05 | 25,429 | 0 | 308 | 0 | 868 | 547 | 1,198 | 780 |
|  |  | CI95 | 26,782 | 5 | 670 | 1 | 2,140 | 1,650 | 1,965 | 1,628 |
| 33 | 471 | Mean | 6,037 | 1 | 430 | 0 | 632 | 404 | 2,370 | 815 |
|  |  | SD | 226 | 4 | 91 | 3 | 178 | 146 | 253 | 186 |
|  |  | CI05 | 5,663 | 0 | 290 | 0 | 363 | 190 | 1,964 | 526 |
|  |  | CI95 | 6,407 | 3 | 590 | 1 | 945 | 665 | 2,797 | 1,137 |


[^0]:    ${ }^{\text {a }}$ Thermal mark contribution from pooled brood stock and weir sample otolith results.

[^1]:    ${ }^{\text {a }}$ 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]:    ${ }^{\text {a }}$ In years when sample size data is available (1999-present in the commercial and test fisheries, and 2003-2004 in the Aboriginal fishery) it was used to determine the number of large fish in the Canadian harvest. In years when sample data is not available, the average \% large in the commercial fishery from 1999-2004 ( $75 \%$ ) was applied to all harvest except the recreational harvest which is assumed to be $100 \%$ large.

[^3]:    ${ }^{\text {a }}$ Partial survey. Tseta 84
    ${ }^{\mathrm{b}}$ Extrapolated results. Nahlin 84
    ${ }^{\text {c }}$ Stopped flying index area 4 on the Nakina after 2009.

[^4]:    ${ }^{a}$ Not surveyed due to poor visibility. 89,90 Blanchard
    ${ }^{\mathrm{b}}$ Late survey date which missed the peak of spawning.

[^5]:    ${ }^{\text {a }}$ Klukshu River salmon stocks represent an assumed large and variable portion of the total Alsek River salmon escapement.
    ${ }^{\mathrm{b}}$ U.S. harvest estimate differs from Joint Interception Committee estimate because no estimates are made for harvest other than the listed fisheries.

[^6]:    ${ }^{a}$ Eggs not transported but placed in inlake incubator; $2000=244,000,2001=865,000,2002196,000,2003=190,000$.
    ${ }^{\mathrm{b}}$ Survival rates are for hatchery eggs and hatchery fry plants and do not inlcude the lake incubators.
    ${ }^{\text {c }}$ All died to IHNV

