PACIFIC SALMON COMMISSION JOINT TRANSBOUNDARY TECHNICAL COMMITTEE

ESTIMATES OF TRANSBOUNDARY RIVER SALMON PRODUCTION, HARVEST AND ESCAPEMENT AND A REVIEW OF JOINT
ENHANCEMENT ACTIVITIES IN 2008

## REPORT TCTR (12)-2

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## ACRONYMS

| ADF\&G | Alaska Department of Fish and Game |
| :--- | :--- |
| AF | Aboriginal Fishery |
| CAFN | Champagne Aishihik First Nation |
| 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) |
| IHN | Infectious Hematopoietic Necrosis (a virus which infects sockeye salmon) |
| LCM | Latent Class Model |
| MEF | Mid-Eye-Fork (fish length measurement) |
| POH | Post-Orbital-Hyperal (fish length measurement) |
| PSC | Pacific Salmon Commission |
| SMM | Stikine Management Model |
| SPA | Scale Pattern Analysis |
| TAC | Total Allowable Catch |
| TRTFN | Taku River Tlingit First Nation |
| TBR | Transboundary River |
| TTC | Transboundary Technical Committee |
| YSC | Yukon Salmon Committee |

## CALENDAR OF STATISTICAL WEEKS

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

## EXECUTIVE SUMMARY

Estimates of harvests and escapements of Pacific salmon returning to the transboundary Stikine, Taku, and Alsek Rivers for 2008 are presented and compared with historical patterns. Average, unless stated differently, refers to the 1998-2007 average. Relevant information pertaining to the management of appropriate U.S. and Canadian fisheries is presented and the use of inseason management models is discussed. Results from transboundary river sockeye salmon Oncorhynchus nerka enhancement projects are also reviewed.

## Stikine River

The 2008 Stikine River sockeye salmon run was estimated to be 120,200 fish, of which approximately 82,700 fish were harvested in various fisheries including test fisheries. An estimated 36,600 Stikine River fish escaped to spawn, including 10,600 fish that migrated to the Tuya River block that were not harvested. The run and harvest were below average. The Tahltan Lake sockeye salmon escapement of 10,500 was below the goal range ( 18,000 to 30,000 fish). The estimated U.S. commercial catch of Stikine River sockeye salmon in Districts 106 and 108, including the Stikine River subsistence fishery, was 45,900 fish. The Canadian inriver commercial and aboriginal fishery catch was 35,600 . The inriver test fishery harvested 1,100 sockeye salmon and there was no marine test fishery in 2008. Weekly inseason run projections from the Stikine Management Model (SMM) ranged from 169,000 to 236,000 sockeye salmon. Weekly inseason run projections using other methods ranged from 125,000 to 163,000 sockeye salmon. The final inseason model prediction was 170,000 fish, with a total allowable catch (TAC) of 101,000 fish. The final inseason run size based on other methods was 125,000 with a TAC of 52,000 fish. Based on the postseason run size estimates and TAC calculations of 42,400 Stikine River fish for each country, Canada harvested $193 \%$ and the U.S. harvested $240 \%$ of their respective TACs. Broodstock collection and otolith sampling removed 2,400 and 100 sockeye salmon respectively from the escapement to Tahltan Lake leaving a spawning escapement of 8,000 fish. The estimated spawning escapement of 16,400 mainstem Stikine River sockeye salmon was below the goal range of 20,000 to 40,000 fish for this stock group.

The 2008 Stikine River Chinook salmon (non large salmon) run is estimated at 36,000 fish, of which approximately 17,600 fish were harvested in various fisheries. An estimated 18,400 Stikine River fish escaped to spawn, above the escapement goal of 17,400 large Chinook salmon. The run and harvest were below the averages. The Little Tahltan River Chinook salmon escapement of 2,700 fish was below the 2008 escapement goal of 3,300 fish but bordered the goal range of 2,700 to 5,300 fish. The estimated U.S. commercial catch of Stikine River Chinook salmon in Districts 106 and 108 gillnet, troll, subsistence, and sport fisheries was 9,700 fish. The Canadian commercial, aboriginal, and sport fisheries catch was 8,000 fish. There were no inriver or marine test fisheries for Chinook salmon in 2008; however, 13 large Chinook salmon were harvested inriver sockeye salmon test fisheries Managers used both the m-r and model estimates to generate inseason estimates after week 22 . The inseason run projections were persistent
throughout the course of the fishery in predicting a total run size that was less than the preseason forecast of 46,000 fish. Weekly inseason run projections from the model ranged from 38000 to 43,000 Chinook salmon. The final estimate was 35,700 large Chinook salmon (both U.S. and Canada), with a total allowable catch (TAC) of 17,000 fish. The US harvested approximately $117 \%$ of their TAC, while Canada harvested approximately $91 \%$ of their TAC.

The 2008 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 and 108 were 116,000 and 34,000 fish, respectively. Alaskan hatchery fish comprised approximately $42 \%$ of the coho salmon harvest from the two districts. The aerial survey count of 1,100 fish from four index sites combined was below average. The cumulative CPUE observed in the coho salmon test fishery, however, was slight above average.

## Taku River

The estimated 2008 Taku River sockeye salmon run is 163,300 fish, including an estimated catch of 95,200 fish and an above-border spawning escapement of 68,100 sockeye salmon. Because a normal test fishery was not conducted during weeks $34-42$ for second event sampling, the above border sockeye salmon contribution for this time period was estimated from Canyon Island fish wheel CPUE data. The run size was below average, but the escapement was close to the goal range of 71,000 to 80,000 fish. An estimated 74,700 Taku River sockeye salmon were harvested in the District 111 commercial fishery, below average, and an estimated 1,000 sockeye salmon were harvested in the U.S. inriver personal use fishery. The Canadian inriver commercial and aboriginal fishery harvest included 19,300 and 200 sockeye salmon, respectively, and were both below average. The U.S. harvested an estimated $86 \%$ of the total TAC and Canada harvested an estimated $22 \%$ of the TAC.

The harvest of large Chinook salmon in the Canadian commercial fishery in the Taku River was 2,300 fish, including 1,400 fish harvested in the stock assessment fishery (weeks 18-24). Preseason and then inseason estimates of Chinook salmon abundance did not allow for a directed Chinook salmon fishery this season. The Canadian aboriginal fishery in the Taku River harvested 1 large Chinook salmon which is below average. The recreational fishery harvested approximately 105 large fish. District 111 mixed stock gillnet fishery harvest of 1,700 large Chinook salmon was also below average. Approximately $42 \%$ of the harvest was estimated to be of Alaska hatchery origin. The above border spawning escapement estimated from the mark-recapture program is 27,400 fish.

The estimated above border run of Taku River coho salmon in 2008 is 99,200 fish, which is below average. The Canadian inriver commercial and test fishery harvest included 3,800 coho salmon; below average. After upriver Canadian harvest and test fishery catches are subtracted from the inriver run, the above-border-spawning escapement is estimated at 95,400 coho salmon, which exceeds the minimum escapement goal of 38,000 fish. The U.S. harvest of 37,300 coho salmon in the District 111 mixed stock
fishery was above average. Alaskan hatcheries contributed an estimated $7 \%$ of the District 111 harvest.

The harvest of 90,200 pink salmon in District 111 was below average. No pink salmon were reported retained in the Canadian commercial inriver fishery in 2008. Although spawning escapement is not know the Canyon Island fish wheel catch of 4,700 fish was below average.

The harvest of 768,700 summer run chum salmon in the District 111 fishery was a record while the harvest of 5,400 fall run fish was above average. There was non-retention of chum salmon in the Canadian inriver fishery in 2008. Although spawning escapement is not known the Canyon Island fish wheel catch of 350 chum salmon was above average.

## Alsek River

The Alsek River sockeye salmon harvest of 2,800 fish in the U.S. commercial fishery was the lowest on record. The Canadian inriver harvest was zero sockeye salmon for Klukshu River and catches are not reported for Village Creek. The Klukshu River weir count of 2,700 sockeye salmon was the lowest on record and below the goal range of 7,500 to 15,000 fish. The count of 43 early run sockeye salmon (count through August 15 ) was also a record low. The late run count of 2,700 was the second lowest on record.

The Chinook salmon run to the Alsek River was below average. The U.S. Dry Bay catch of 130 large Chinook salmon was below average. The Canadian recreational fishery catch of 7 fish is below average and the aboriginal fishery catch was 0 . The 470 Chinook salmon counted through the Klukshu River weir was also the lowest on record and below the 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 catch of 2,700 coho salmon was below average. 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 wais over; however, it does provide an annual index. The count of 4,300 coho salmon was above average.

## Enhancement

Eggs and milt were collected from the year 2008 sockeye salmon escapements at Tahltan, Tatsamenie and Little Trapper lakes. A total of 3.4 million eggs were collected at Tahltan Lake, 4.9 million at Tatsamenie Lake and 0.1 million at Trapper Lake (the Trapper eggs were planted in Tunjony Creek).

Outplants of 2007 brood-year sockeye salmon fry in May and June 2008 included, 1.4 million fry into Tahltan Lake, 0.8 million fry into Tuya Lake, 3.9 million fry into Tatsamenie Lake and 0.4 million fry into Trapper Lake. Green-egg to planted-fry survivals were $70 \%, 83 \%, 89 \%$ and $39 \%$ for the Tahltan, Tuya, Tatsamenie and Trapper outplants, respectively. Survival to emergence was below average this year primarily due
to loss of eggs and fry to the IHN virus; however there was some reduced survival due to egg shipment delays due to weather.

The egg incubation and thermal-marking program was continued at Snettisham Hatchery in 2008. Snettisham hatchery is operated by DIPAC (Douglas Island Pink and Chum, Inc.), a private aquaculture organization in Juneau. A co-operative 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 the weekly contribution of fish from US/Canada TBR fry planting programs to the District 106, 108, and 111 gillnet fisheries and to Canadian commercial fisheries in the Stikine and Taku Rivers. Contribution estimates of planted fish to Alaskan harvest were 26,000 planted Stikine River fish to District 106 and 108, and 11,800 planted Taku River fish to District 111. Estimates of contributions to Canadian fisheries included 21,000 planted fish to Stikine River fisheries and 1,900 planted fish to the Taku River fisheries.

## INTRODUCTION

This report presents estimates of the 2008 catch and escapement data for Pacific salmon runs to the transboundary Stikine, Taku, and Alsek Rivers and discusses management actions taken during the season. Catch and effort data are presented by management week (U.S. statistical week), hereafter referred to as 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 Transboundary Technical Committee (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 total allowable catch TAC estimates for the various species and rivers.

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

## STIKINE RIVER

Stikine River salmon are harvested by U.S. commercial gillnet fisheries in Alaskan Districts 106 and 108, by Canadian commercial gillnet fisheries located in the lower and upper Stikine River, and by a Canadian aboriginal fishery 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 catches were reported in this fishery in 1995 through 2000, approximately 30 sockeye salmon were harvested in 2001, and the personal use fishery on the Stikine River was not open in 2002 and 2003. A subsistence fishery was opened in 2004. Additional catches of unknown quantity are taken in U.S. troll and seine fisheries and in sport fisheries near Wrangell and Petersburg. In 1996, the spring experimental troll area in the District 110 portion of Frederick Sound was expanded to target hatchery Chinook salmon; four previous areas were combined into one large area that also included previously unopened waters. This area was the same in 2003. In 1993 the 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.


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

## Harvest Regulations and the Joint Management Model

Negotiations between Canada and the United States to replace expired portions of Annex IV, Chapter 1 of the Pacific Salmon Treaty resulted in the following arrangements for Stikine River salmon which are expected to be in place through 2008. Highlights of the most recent round (germane to the 2008 season) of the PSC negotiations held in Portland, Oregon in February 2005 included: an agreement for new directed fisheries for Stikine River Chinook salmon stocks; an agreement on a US subsistence fishery on Chinook and coho salmon stocks within the US section of the Stikine River; and, an agreement to ensure the US pass 1,000 additional coho salmon to the Canadian fishery. Details of the February 2005 agreement including harvest sharing provisions have been incorporated into the Transboundary Annex (Annex IV) of the Pacific Salmon Treaty and can be found at: http://www.psc.org/pubs/treaty.pdf.

As in most previous years, the Transboundary Technical Committee (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 nascent Chinook salmon model is referred to as the Stikine Chinook salmon Management Model (SCMM) and served as the principal management tool governing weekly fishing regimes for the new directed Stikine River Chinook salmon, although the SCMM was complemented inseason with a concurrent markcapture study. The sockeye salmon model is referred to as the Stikine Management Model (SMM). The SCMM was complemented inseason with a concurrent mark-capture study.

## Chinook Salmon

The SCMM model is based on the linear regression (correlation) between weekly cumulative CPUE of large Chinook salmon at the tagging site and total run size based on mark-recapture studies conducted in 1996-2006 (2007 correlation not used due to abnormal fishing conditions). Most of the CPUE and run size data sets are significantly correlated. Inseason model estimates were available commencing in week 23 (Table 1). Mark-recapture estimates based on the cumulative ratio of tagged-to-untagged fish observed in the inriver commercial fishery were also generated commencing in week 24. In order to honor 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 Canadian guideline harvests were derived from historical run timing data from the 2005 and 2006 inriver commercial fisheries and the 2000-03 inriver test fisheries. The U.S. guidelines were derived from historical run timing in District 108 (1969-73, 2005-2007) and historical CPUE from the Kakwan Point tagging site, delayed one week (1996-04) and the 2001-2003 average CPUE form the Canadian Chinook salmon test fishery delayed one week.

The preseason Chinook salmon forecast was used during weeks 19-22. After week 22, inseason forecasts of total run size and TAC were used to assist in determining weekly fishing plans (Table 1). After week 24, mark-capture estimates were generated to complement the SCMM estimate; the average run size generated from the mark-recapture
estimates and the SCMM were used to project inseason run size in some weeks. The weekly inputs to the model included: the catch and effort data from Kakwan Point, the District 108 sport, troll, and gillnet catch. The Canadian sport and gillnet catches were also added to the model. Weekly guideline quotas were established in District 108 and Canada based on the historical run timing curves mentioned above.

Table 1. River large Chinook salmon run size based on a model (SCMM) and markrecapture estimates, weekly TAC, and weekly catch estimates from the District 108 gillnet, sport, and troll fisheries and the Canadian gillnet and sport fisheries, 2008.

| Stat Week | Start <br> Date | Total Run |  | TAC |  | Estimated Harvest |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Estimate | Method | Total | Weekly | Weekly | Cumulative |
| Canada Estimates ${ }^{\text {a }}$ |  |  |  |  |  |  |  |
| 18 | 03-May | 46,100 | preseason |  |  |  |  |
| 19 | 10-May | 46,100 | preseason | 11,900 | 215 | 99 | 99 |
| 20 | 17-May | 46,100 | preseason | 11,900 | 547 | 393 | 492 |
| 21 | 24-May | 46,100 | preseason | 11,900 | 469 | 531 | 1,023 |
| 22 | 31-May | 46,100 | preseason | 11,900 | 1,119 | 470 | 1,493 |
| 23 | 7-Jun | 42,000 | model | 10,600 | 1,059 | 1457 | 2,950 |
| 24 | 14-Jun | 42,000 | model | 10,600 | 1,541 | 1892 | 4,842 |
| 25 | 21-Jun | 38,000 | avg m-r/mod | 9,400 | 1,466 | 1168 | 6,010 |
| 26 | 28-Jun | 38,000 | avg m-r/mod | 9,400 | 892 | 782 | 6,792 |
| 27 | 5-Jul | 38,000 | avg m-r/mod | 9,400 | 460 | 430 | 7,222 |
| 28 | 12-Jul | 38,000 | avg m-r/mod | 9,400 | 393 | 359 | 7,581 |
| 29 | 19-Jul | 38,000 | avg m-r/mod | 9,400 | 73 | 140 | 7,721 |
| 30 | 26-Jul | 38,000 | avg m-r/mod | 9,400 | 53 | 106 | 7,827 |
| 31 | 2-Aug | 38,000 | avg m-r/mod | 9,400 | 48 | 16 | 7,843 |
| 32 | 9-Aug | 38,000 | avg m-r/mod | 9,400 | 23 | 56 | 7,899 |
| Postsea | Final | 35,999 | m-r (strat.) | 8,690 |  |  | 7,932 |
| U.S. Estimates ${ }^{\text {a }}$ |  |  |  |  |  |  |  |
| 19 | 10-May | 46,100 | preseason | 12,040 | 708 | 630 | 689 |
| 20 | 17-May | 46,100 | preseason | 12,040 | 871 | 1,104 | 1,802 |
| 21 | 24-May | 46,100 | preseason | 12,040 | 1,397 | 1,950 | 3,826 |
| 22 | 31-May | 46,100 | preseason | 12,040 | 1,813 | 1,503 | 5,430 |
| 23 | 7-Jun | 43,000 | model | 9,950 | 1,935 | 1,575 | 7,030 |
| 24 | 14-Jun | 42,000 | model | 9,250 | 1,706 | 1,275 | 8,502 |
| 25 | 21-Jun | 41,000 | avg m-r/mod | 8,550 | 800 | 1,407 | 9,787 |
| 26 | 28-Jun | 38,000 | avg m-r/mod | 6,450 | 331 | 844 | 10,294 |
| 27 | 5-Jul | 38,000 | avg m-r/mod | 6,450 | 177 | 220 | 10,137 |
| 28 | 12-Jul | 38,000 | avg m-r/mod | 6,450 | 67 | 115 | 9,902 |
| 29 | 19-Jul | 39,000 | avg m-r/mod | 7,150 | 62 | 100 | 10,151 |
| Postseason Final |  | 35,999 | m-r (strat.) | 8,310 |  |  | 9,715 |

${ }^{\text {a }}$ Canadian TAC and catch estimates include baseline catch, U.S. TAC and catch estimates to not include the baseline numbers.

The preseason forecast for the terminal Stikine River large Chinook salmon run was approximately 46,100 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 38,000 to 43,000 Chinook salmon (Table 1). Managers used the daily catch and effort data transmitted from the Kakwan Point tagging site to make daily run projections. Joint weekly run size estimates were calculated on Wednesday or Thursday in the current week and were used to set the following week's fishery openings. (Occasionally the mid week
estimates were used to govern the Canadian fishery in the current week.) Managers used the model estimates in weeks 22-23 and the average run size generated by the weekly mark-recapture and SCMM estimates after week 24 (08-14 June) in the formulation of weekly management plans. All projections generated by the joint SCMM and the M-R study indicated a run size that was less than the preseason expectation and the 2002-06 average. Based on M-R data from the inriver commercial fishery and stratified by statistical weeks, the final postseason estimate of terminal run size of Stikine Chinook salmon was 36,000 large Chinook salmon, which was below the preseason forecast of 46,100 large Chinook salmon (Table 1). The 2008 Little Tahltan escapement of 2,663 fish represents approximately $13 \%$ of the total inriver escapement of 18,352 fish, compared to the average of approximately $17 \%$.

## Sockeye Salmon

The SMM was updated to provide inseason projections of the Stikine River sockeye salmon run, including: the Tahltan stock (wild and planted combined); the planted Tuya stock; and the mainstem stocks. The model for 2008 was based on CPUE data from 1985 to 2006 from the Alaska District 106 fishery and the Canadian commercial fishery in the lower river and from 1986 to 2004 from the lower Stikine River test fishery. Linear regression was used to predict run size from cumulative CPUE for each week of the fisheries beginning in week 27 for District 106 and for the inriver fisheries. As in 19992006, the intercept was forced to be zero in order to correct for a tendency to overestimate the run size in the early weeks during years of low abundance. Each CPUE and run size data set is significantly correlated.

Other assessment methods including inseason run reconstruction and a linear regression of CPUE of Tahltan Lake sockeye salmon against total inriver run (1998-2007) were used by Canada post week 27 during the 2008 fishing season.

Initially in 2008 the inriver test fishery CPUE data was slated to be the primary source for generating inseason projections of sockeye salmon run size; however, the CPUE from the commercial fishery was used due to the extended fishery openings and resultant limited or absent test fishing activity. Because the commercial fishing zone was limited to the Stikine River from the its confluence with the Porcupine downstream to the Canada US border, no adjustments were made to the total weekly CPUE, i.e. in past fisheries when the fishing zone extended upstream to the confluence of the Scud and Stikine rivers, the CPUE from the extended fishing zone was not included in the model. 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 license was permitted, while in 1996-1999 and 2005-2008 two nets per license were allowed. It is estimated that the second net increased the catch and CPUE by approximately $25 \%$.

In 2008, the preseason forecasts were used during weeks 24 (08-14 June) through 26 (2228 June). After week 26, inseason forecasts of run size and TAC, produced by the SMM, Tahltan sockeye salmon regression model, and run reconstruction data in the lower river commercial fishery, were used to determine weekly fishing plans (Table 2). The weekly
inputs to the model included: the catch, effort and stock composition (proportion Tahltan/Tuya from egg diameters, proportion planted Tuya from thermal mark analyses of otoliths) in the Canadian lower river test (when in operation) and commercial fisheries; the upper river catch in the aboriginal fishery (AF) and upper river commercial fishery; the catch, effort and assumed stock composition in Subdistrict 106-41 (Sumner Strait); and, the catch and assumed stock composition in District 108 and Subdistrict 106-30 (Clarence Strait).

Table 2. Weekly forecasts of run size and total allowable catch for Stikine River sockeye salmon as estimated inseason by the Stikine Management Model, 2008.

| Stat. Week | Start Date | Forecast Run Size | TAC |  |  | Cumulative Catches ${ }^{\text {a }}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Total | U.S. | Canada | U.S. | Canada |
| Model runs generated by Canada |  |  |  |  |  |  |  |
| 25 | 15-Jun | 228,600 | 160,400 | 80,200 | 80,200 |  | 517 |
| 26 | 22-Jun | 228,600 | 160,400 | 80,200 | 80,200 |  | 8904 |
| $27^{\text {b }}$ | 29-Jun | 219,390 | 153,200 | 76,600 | 76,600 |  | 18,941 |
| $28^{\text {cd }}$ | 6-Jul | 162,600 | 91,000 | 45,500 | 45,500 |  | 23,738 |
| $29^{\text {cd }}$ | 13-Jul | 158,700 | 85,200 | 42,600 | 42,600 |  | 28,685 |
| $30^{\text {cd }}$ | 20-Jul | 150,200 | 73900 | 37,000 | 37,000 |  | 30,982 |
| $31^{\text {cd }}$ | 27-Jul | 134,300 | 58,300 | 29,150 | 29,150 |  | 32,797 |
| $32^{\text {c }}$ | 3-Aug | 134,700 | 57,700 | 28,900 | 28,900 |  | 33,546 |
| $33^{\text {c }}$ | 10-Aug | 124,500 | 52,000 | 26,000 | 26,000 |  | 33,608 |
| Model runs generated by the U.S. |  |  |  |  |  |  |  |
| 25 | 15-Jun | 228,600 | 160,643 | 80,321 | 80,321 | 2,128 |  |
| 26 | 22-Jun | 228,600 | 160,643 | 80,321 | 80,321 | 11,242 |  |
| 27 | 29-Jun | 236,028 | 172,359 | 86,180 | 86,180 | 23,577 |  |
| 28 | 6-Jul | 209,495 | 140,172 | 70,086 | 70,086 | 26,690 |  |
| 29 | 13-Jul | 185,719 | 118,220 | 59,110 | 59,110 | 34,356 |  |
| 30 | 20-Jul | 185,819 | 118,040 | 59,020 | 59,020 | 31,266 |  |
| 31 | 27-Jul | 171,091 | 101,686 | 50,843 | 50,843 | 36,916 |  |
| 32 | 3-Aug | 173,005 | 104,050 | 52,025 | 52,025 | 36,986 |  |
| 33 | 10-Aug | 170,514 | 101,817 | 50,908 | 50,908 | 38,356 |  |
| 34 | 17-Aug | 169,743 | 101,030 | 50,515 | 50,515 |  |  |
| Final |  | 119,360 | 42,420 | 21,210 | 21,210 | 45,942 | 35,606 |

${ }^{\text {a }}$ Does not include test fishery catches
${ }^{\text {b }}$ Model estimate
${ }^{\text {c }}$ Regression estimate
${ }^{\mathrm{d}}$ Harvest rate estimate: harvest rate est. d: does not include test fish catches
The weekly inputs to the Tahltan sockeye salmon regression model included the cumulative weekly CPUE of Tahltan Lake sockeye salmon ( $\mathrm{r}^{2}=0.65$ week $28 ; 0.91$ week 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. The weekly inputs to the Tahltan run reconstruction model included to total catch to date of Tahltan, Tuya and mainstem bound sockeye salmon which was expanded by a professional estimate of harvest rate ( $40-50 \%$ ) and further expanded by the run fraction though the fishery. 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. In 2008 the inriver commercial fishery CPUE was the primary forecast used by the US (The test fishery was not prosecuted until mid July due to prolonged commercial fishery openings.), while Canada used both the run reconstruction and the Tahltan regression model.

Initially, average stock proportions in District 106 and 108 catches, from historical scale pattern analysis (SPA), were assumed for weekly catches; averages used each week depended upon whether the run was judged to be below average, average, or above average. The Tuya and planted Tahltan stock proportions were subsequently adjusted inseason based on the analysis of otolith samples taken in Districts 106 and 108. The weekly estimate of Tuya fish in District 106-41 and 108 was added to the historical proportion of Tahltan fish in the SMM since this stock was not present in the historical database.

The preseason forecast for the Stikine River sockeye salmon run was approximately 228,600 fish (Table 2), which indicated a run size characterized as an average run. The forecast included approximately 59,500 natural Tahltan sockeye salmon, 56,700 planted Tahltan fish, 56,700 planted Tuya sockeye salmon, and 55,700 mainstem fish. Canadian inseason predictions of total run ranged from 219,400 to 124,500 sockeye salmon; U.S. forecasts ranged from 236,000 to 169,700 (Table 2). All inseason forecasts indicated a run that was below the preseason forecast. 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.

The final estimates of run size and TAC are lower than those used inseason for management for all weeks. The SMM over predicted the run during the duration of the run. The estimates generated by the other two models, especially the Tahltan regression method also over predicted the total run size in all weeks but were closer to the final run size than the SMM, Table 2.

## U.S. Fisheries

The 2008 gillnet harvest in District 106 included 1,049 large Chinook, 30,533 sockeye, 116,074 coho, 90,217 pink and 102,156 chum salmon (Appendix A.1). All salmon harvests were below average with sockeye, pink, and chum salmon harvests far below average. The estimated contribution of Stikine River sockeye salmon to the District 106 total sockeye salmon harvest was 16,943 fish or $55 \%$ of the harvest (Table 3, Appendix A.2). An estimated 380 large Chinook salmon in the District 106 harvest (36\%) were of Alaska hatchery origin (Appendix A.1). An estimated 51,807 coho salmon in the District 106 harvest were of

Table 3. Terminal run reconstruction for Stikine River sockeye salmon, 2008.

|  | Tahltan Mainstem |  | Total | Tuya | Tahltan |  | Total Stikine | $\begin{array}{r} \text { All } \\ \text { Planted } \\ \hline \end{array}$ | $\begin{array}{r} \text { All } \\ \text { Wild } \end{array}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Wild |  | Hatchery |  |  |  |
| Escapement ${ }^{\text {a }}$ | 10,516 | 16,183 |  | 26,699 | 10,858 | 5,396 | 5,120 | 37,558 | 15,978 | 21,580 |
| ESSR Catch ${ }^{\text {b }}$ | 0 |  | 0 | 0 |  |  | 0 | 0 | 0 |
| Biological Samples | 100 |  | 100 | 280 | 51 | 49 | 380 | 329 | 51 |
| Broodstock | 2,364 |  | 2,364 |  | 1,212 | 1,152 | 2,364 | 1,152 | 1,212 |
| Natural Spawning | 8,052 | 16,183 | 24,235 |  | 4,132 | 3,920 | 24,235 | 3,920 | 20,315 |
| Excess ${ }^{\text {c }}$ |  |  |  | 10,578 |  |  | 10,578 | 10,578 |  |
| Canadian Harvest |  |  |  |  |  |  |  |  |  |
| Aboriginal | 3,287 | 398 | 3,685 | 825 | 2,740 | 547 | 4,510 | 1,372 | 3,138 |
| Upper Commercial | 363 | 48 | 411 | 94 | 302 | 61 | 505 | 155 | 350 |
| Lower Commercial | 13,455 | 4,028 | 17,483 | 11,153 | 6,922 | 6,533 | 28,636 | 17,686 | 10,950 |
| Tuya Test | 543 | 455 | 999 | 956 | 304 | 239 | 1,955 | 1,195 | 760 |
| Total | 17,648 | 4,929 | 22,578 | 13,028 | 10,268 | 7,380 | 35,606 | 20,408 | 15,198 |
| \% Harvest | 49.9\% | $32.1 \%$ | 44.5\% | 42.3\% |  |  |  |  |  |
| Test Fishery Catch | 428 | 387 | 815 | 296 | 225 | 203 | 1,111 | 499 | 612 |
| Inriver Run | 28,592 | 21,500 | 50,092 | 24,183 | 15,890 | 12,703 | 74,275 | 36,885 | 37,389 |
| U.S. Harvest ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |
| 106-41\&42 | 3,467 | 3,483 | 6,950 | 6,936 | 1,271 | 2,196 | 13,886 | 9,132 | 4,754 |
| 106-30 | 1,564 | 1,168 | 2,732 | 325 | 1,520 | 44 | 3,057 | 369 | 2,688 |
| ${ }{ }^{108}$ | 12,547 | 5,659 | 18,206 | 10,365 | 6,648 | 5,899 | 28,571 | 16,264 | 12,307 |
| Subsistence | 165 | 124 | 289 | 139 | 85 | 80 | 428 | 219 | 209 |
| Total | 17,743 | 10,434 | 28,177 | 17,765 | 9,524 | 8,218 | 45,942 | 25,984 | 19,958 |
| \% Harvest | 50.1\% | 67.9\% | 55.5\% | 57.7\% |  |  |  |  |  |
| Test Fishery Catch | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Run | 46,335 | 31,934 | 78,269 | 41,948 | 25,414 | 20,921 | 120,217 | 62,869 | 57,348 |
| Escapement Goal | 24,000 | 30,000 | 54,000 | 0 |  |  |  |  |  |
| Terminal Excess ${ }^{\text {d }}$ |  |  |  | 22,115 |  |  |  |  |  |
| Total TAC | 21,907 | 1,547 | 23,454 | 19,833 |  |  | 43,287 |  |  |
| Total Harvest ${ }^{\text {e }}$ | 35,819 | 15,750 | 51,569 | 31,090 |  |  | 82,659 | 46,891 | 35,768 |
| Canada TAC | 10,954 | 773 | 11,727 | 9,916 |  |  | 21,643 |  |  |
| Actual Catch ${ }^{\text {fg }}$ | 17,648 | 4,929 | 22,578 | 13,028 |  |  | 35,606 | 20,408 | 15,198 |
| \% of total TAC | 161.1\% | 637.4\% | 192.5\% |  |  |  | 164.5\% |  |  |
| U.S. TAC | 10,954 | 773 | 11,727 | 9,916 |  |  | 21,643 |  |  |
| Actual Catch ${ }^{\text {fg }}$ | 17,743 | 10,434 | 28,177 | 17,765 |  |  | 45,942 | 25,984 | 19,958 |
| \% of total TAC | 162.0\% | 1349.3\% | 240.3\% |  |  |  | 212.3\% |  |  |

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

Alaska hatchery origin, $45 \%$ of the total coho salmon harvest. The District 106 drift gillnet fishery was open for 46 days from June 8 through October 1 (Appendix A.1); fishing time was average. Sections 6-A, 6-B, and 6-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 of the season with the exception of weeks 24 and 38. The greatest effort in vessels fishing ( 85 boats), and the greatest number of boat days (340) both occurred in week 38 (Appendix A.1). The total season effort was 2,196 boat days (Appendix A.1).

The Sumner Strait fishery (Subdistricts 106-41 \& 42) harvested an estimated 13,886 Stikine River sockeye salmon (Appendix A.4), $67 \%$ of the total sockeye salmon harvest in that subdistrict. The Clarence Strait fishery (Subdistrict 106-30) harvested an estimated 3,057 Stikine River sockeye salmon (Appendix A.6), $31 \%$ of the total sockeye salmon harvest in that subdistrict.

In District 108, 13,049 large Chinook, 35,679 sockeye, 34,479 coho, and 18,105 pink and 81,876 chum salmon were harvested for the season (Appendix A.7). Chinook and coho salmon harvests were above average while sockeye, pink, and chum salmon harvests were below average. The District 108 fishery harvested an estimated 28,571 Stikine River sockeye salmon (Appendix A.8), $80 \%$ of the District 108 sockeye salmon harvest. The District 108 fishery started on May 5 and included five weeks of directed Chinook salmon fishing before the usual sockeye salmon opening occurred in week 24 (June 8). District 108 closed concurrently with District 106 on October 1. The 58 days the district was open is above average (Appendix A.7). Excluding the directed Chinook salmon fishery, the district was open for 50 days, which is above average (this average only includes the usual sockeye salmon fishery in the 2005, 2006, and 2007 season). The Alaska hatchery Chinook salmon contribution in District 108 was estimated at 5,627 fish, $43 \%$ of the total harvest. An estimated $28 \%$ (9,674 fish) of the District 108 coho salmon harvest was of Alaskan hatchery origin (Appendix A.7). The weekly fishing effort in number of vessels fishing in District 108 during the usual fishery (weeks 24 through 40) was above average every week with the exception of weeks $24,28,30$, and 40 . The season effort of 2,897 boat-days, during the usual fishery in District 108, was above average.

The District 108 test fishery did not take place in 2008 (Appendix A.9).
The 2008 season was the fifth season a U.S. Federal subsistence sockeye salmon fishery was conducted on the Stikine River, and was the fourth season that U.S. Federal subsistence Chinook and coho salmon fisheries were conducted. The fisheries were managed by the United States Forest Service. A permit issued by the USFS to federally qualified users was required. The fisheries took place on the Stikine River upriver from marine waters to the U.S./Canadian border. Fishing in clearwater tributaries or side channels and at stock assessment sites was prohibited. The Guideline Harvest Levels for Chinook, sockeye, and coho salmon were set at 125,600 , and 400 fish, respectively. The open dates were May 15 to June 20 for the Chinook salmon fishery, June 21 to July 31 for the sockeye salmon fishery, and August 1 to October 1 for the coho salmon fishery.

The allowable gear for the fishery included dipnets, spears, gaffs, rod and reel, beach seine, and gillnets not exceeding 15 fathoms in length with mesh size no larger than $51 / 2$ inches except during the Chinook salmon fishery when mesh up to 8 inches was allowed. A total of 50 permits were issued and the estimated harvests included 26 Chinook, 428 sockeye, and 42 coho salmon (Appendix A.11).

The fourth consecutive commercial directed Stikine River Chinook salmon drift gillnet fishery in recent years occurred in weeks 19 through 23 of the 2008 season. The preseason forecast was considerably larger than the 2007 forecast but was still well below the expected forecasts in the 2005 and 2006 seasons. The total run was expected to be approximately 46,000 large Chinook salmon for 2008. The U.S. total allowable catch based on this forecast was approximately 15,440 fish. The fishery was limited to the waters in District 108 in order to target adult Stikine Chinook salmon. The 2008 directed Stikine Chinook salmon fishery openings reflected decisions made on several issues (including area of opening, time of opening, and gear utilized) among commercial and sport groups by the Stikine King Salmon Workgroup previous to the 2006 season. In 2008, 127 gillnetters made landings of Chinook salmon over the course of the five-week fishery. A total of eight days were fished within this time period.

The gillnet fleet harvested the bulk of the adult Stikine Chinook salmon in District 108 with 7,274 fish caught through week 29 . The sport fishery was open continuously from weeks 18 through 29 with liberalized bag and gear limits. The sport fishery harvested 1,352 adult Stikine Chinook salmon during this time period. The troll fishery had six five-day openings and two three-day openings throughout most of District 108 from week 19 through 26. The spring troll fishery was closed by regulation on June 30. The troll fishery accounted for 1,063 Stikine Chinook salmon in District 108. The final cumulative U.S. harvest of large Stikine Chinook salmon through week 29, including the federal Stikine subsistence fishery, was 9,715 fish. The estimated total terminal run was approximately 35,999 large Chinook salmon and was based upon mark-recapture information. Based upon that final post-season estimate of the run size, the U.S. allowable catch was 9,150 large Stikine Chinook salmon.

The District 108 directed Stikine Chinook salmon gillnet fishery began at 8:00 am on Monday, May 5 (week 19) for a 48 -hour period. The two-day opening was based on a sustantially larger preseason forecast compared to the 2007 season and corresponding one-day openings. The Stikine River flats remained closed throughout the directed Chinook salmon fishery. Small area closures again occurred, although to a lesser extent, to reduce conflicts between commercial and sport fishers and for steelhead conservation. Several of the 2008 season area closures were dependent on the weekly openings of the gillnet fishery, and the reduced (two-day or less) openings that occurred each week of the directed Stikine Chinook salmon fishery resulted in few area closures. Another steelhead conservation tool that was put into place in 2006 and continued in 2008 was a minimum mesh size of 7 inches for gillnetters throughout the directed Stikine Chinook salmon fishery. Thirty-one gillnetters made landings in District 108 during the initial opener and several more boats fished but had no harvest. The vast majority of boats fished in Section 8-B, and this trend would remain throughout the directed Stikine Chinook salmon gillnet fishery. A unique dynamic of the fishery was the proximity to town, and few fishermen
spent entire openings without tying to the dock. Average gillnet catch rate in the initial opening was similar to the previous three years. The first inseason run estimate was not released until week 22 due to inadequate data for the scheduled preliminary inseason estimate release during week 21 ; therefore the preseason forecast was used for the first four weeks of the directed Stikine Chinook salmon fishery. The estimated District 108 gillnet harvest during week 19 was 330 large Chinook salmon. The U.S. weekly AC guideline, based on historical run timing and the preseason forecast, was approximately 700 Stikine Chinook salmon. After factoring in the troll and sport fish harvests and deducting the hatchery component, the total U.S. harvest was slightly below the weekly guideline.

During weeks 20 (May 11-17) and 21 (May 18-24), District 108 was opened with the same area and time as week 19. Gillnet effort increased steadily as the season progressed with 53 boats making landings in week 20 and 96 boats in week 21 . The effort in week 20 was nearly identical to that seen in the respective weeks of the 2005 and 2007 season while the week 21 effort was similar to the increased effort seen in the 2006 season. The cumulative harvest of large Stikine Chinook salmon by the U.S. fisheries was estimated to be approximately 3,800 fish during week 21 . Weekly allowable catch guidelines were exceeded during weeks 20 and 21. After the base level was factored in, AC guidelines were exceeded by $5.5 \%$ and $14.5 \%$ in weeks 20 and 21 , respectively. Average catch rate in week 21 showed a minimal increase from the previous week compared to the past three seasons, and this contributed to a reduced opening in week 22 . The increase in effort from week 20 to 21 was surprising and became the greatest increase in effort seen from week to week during the directed Chinook salmon fishery over the past four seasons. Inadequate in-river data through week 21 resulted in using the preseason forecast for an additional week. The U.S. total allowable catch at this point was approximately 15,400 large Stikine Chinook salmon with the base level included.

During weeks 22 (May 25-31) and 23 (June 01-07), openings were reduced to 24 hours with the Stikine River flats remaining closed. The week 22 opening began on Tuesday, May 27 instead of the usual Monday opener due to the Memorial Day holiday. Gillnet effort reached its highest point during the directed Chinook salmon fishery in week 22 and 23 with 103 boats making landings each week. The estimated U.S. harvest of large Stikine Chinook salmon in week 22 was 1,500 fish and in week 23 was 1,600 fish. The actual harvests were approximately $66 \%$ and $68 \%$ of the corresponding weekly AC guidelines (with the base level factored in) in week 22 and 23, respectively. The first inseason terminal run forecast was released in week 22 and reduced the forecast to 43,000 fish. This forecast resulted in a total U.S. allowable harvest of 13,350 fish. The estimated cumulative harvest by all U.S. fisheries was approximately 7,100 large Stikine Chinook salmon by the end of week 23. The terminal run forecast dropped by another 1,000 fish in week 23 to 42,000 fish. The corresponding U.S. allowable catch at this point was approximately 12,500 fish. Average catch rate in week 23 fell well below average from the past three seasons, and this combined with a dropping forecast and high effort resulted in a substantial area closure off the mouth of the river in week 24 . The week 23 opening was the last opening directed at Stikine Chinook salmon and the following week began the sockeye salmon management regime.

During week 24, a two-day opening was announced due to an above-average Tahltan sockeye salmon forecast. The vast majority of gillnetters that fished in District 108, however, kept their Chinook salmon gear on. Effort was reduced substantially mostly due to the substantial area closure which closed the waters east of a line running from Blind Slough (Mitkof Island) to the south tip of Vank Island down the eastern shoreline of Woronkofski Island, to a similar longitude on Etolin Island. Seventy boats made landings this week in District 108. The U.S. large Stikine Chinook salmon harvest during week 24 was estimated at approximately 1,300 fish. The actual harvest was $50 \%$ of the weekly AC guideline. The hatchery Chinook salmon component also began to become substantial this week representing over $30 \%$ of the gillnet harvest and this would continue to increase substantially through week 29 . In week 24 , the terminal run forecast again fell by another 1,000 fish to 41,000 large Stikine Chinook salmon resulting in a U.S. AC of 11,950 fish. The cumulative U.S. Stikine Chinook salmon harvest through week 24 was approximately 8,400 fish.

The District 106 gillnet season began, and the District 108 season continued into sockeye salmon management, at 12:00 noon on Sunday, June 8 (week 24) for a two-day period. In District 108, the Stikine River flats remained closed and a further closure was implemented to conserve Stikine Chinook salmon. The first sockeye salmon opening is normally two days and any decision to extend fishing is based on fishery harvest rates estimated by management biologists on site in the fishery. Additional fishing time was not warranted this week. This season was similar to last season in that the vast majority of boats in District 108 were targeting Chinook salmon so the sockeye salmon catch rates were not very informative. The sockeye salmon catch rates in District 106 were well below average for the 13 boats that made landings from the district. Three boats fished in Clarence Strait (106-30) for this initial sockeye salmon opening. Seventy boats made landings in District 108 (Appendices A. 3 and A.5). The preseason SMM forecasted a total Stikine River TAC of 160,643 fish and a Tahltan TAC of 91,285 fish (Table 2). This would allow the U.S. fisheries to harvest a total of 80,321 Stikine River fish, including 45,643 Tahltan fish. The pre-season forecast was used for weeks 24-26, while the inriver commercial fishery CPUE was used for the remainder of the sockeye salmon season.

During week 25 (June15-21), there were 17 boats fishing in Sumner Strait, 8 boats fishing in Clarence Strait and 76 boats fishing in District 108 during the two-day opening (Appendices A. 3 and A.5). No additional time was warranted this week due to generally low sockeye salmon catch rates. The small number of boats actually targeting sockeye salmon in District 108 had well above average catch rates, however, the sockeye salmon catch rates in District 106 were well below average. The majority of effort in District 108 this week was focused on returning Anita Bay Chinook salmon in the southern part of the district. The inseason otolith readings for sub-district 106-41 indicated that $15.1 \%$ of the catch was comprised of thermally marked Tahltan fish while $19.0 \%$ were thermally marked Tuya fish. In District 108, $15.7 \%$ were thermally marked Tahltan fish and $40.3 \%$ were thermally marked Tuya fish.

During week 26 (June 22-28), there were 32 boats fishing in Sumner Strait, 13 boats fishing in Clarence Strait and 88 boats fishing in District 108 (Appendices A. 3 and A.5). Both districts were opened for an initial three days this week due to solid sockeye salmon catch rates in District 108 and strong inriver indications. Considerably more boats in District 108 switched to sockeye salmon gear, but the majority was still targeting hatchery Chinook salmon. Both districts were extended for an additional 24-hour period due to solid sockeye salmon catch rates in District 108, a small fleet in District 106, and excellent sockeye salmon catch rates in the inriver fishery. The inseason otolith readings for sub-district $106-41$ for week 26 indicated that $14.4 \%$ of the catch was comprised of thermally marked Tahltan fish while $38.6 \%$ were thermally marked Tuya fish. The District 108 reading indicated $21.6 \%$ thermally marked Tahltan fish and $37.7 \%$ thermally marked Tuya fish. The Stikine sockeye salmon model predicted a total run slightly larger than the preseason forecast this week. The model forecasted a U.S. TAC of 86,000 Stikine sockeye salmon with 50,000 Tahltan fish. The U.S. Tahltan sockeye salmon catch estimate at this point was 5,550 fish.

During week 27 (June 29-July 05), District 106 and 108 were opened for an initial four days (Appendix A.7). There were 27 boats fishing in Clarence Strait, 41 boats in Sumner Strait, and a total of 75 boats fishing in District 108 for the week (Appendices A.3, A.5, and A.7). Surveys on the fishing grounds showed that sockeye salmon catch rates were below average in both districts even when isolating the boats fishing with sockeye salmon gear in District 108. The effort dropped substantially toward the end of the opening due to the $4^{\text {th }}$ of July holiday and lower catches. No additional time was warranted this week. The percentage of thermally marked Tahltan sockeye salmon in Sub-district $106-41$ rose slightly to $14.9 \%$ while the marked Tuya fish contributed $31.3 \%$. In District 108, marked Tahltan fish contributed $20.1 \%$ while marked Tuya fish contributed $33.4 \%$. The SMM estimate decreased the total Stikine sockeye salmon U.S. TAC to 70,000 fish with a Tahltan TAC of 36,000 fish. The estimated cumulative U.S. harvest of Tahltan sockeye salmon was 11,000 fish. The mainstem total run forecast produced by this week's model projected a run slightly larger than the preseason estimate.

During week 28 (July 06-12), 13 boats fished in Clarence Strait, 35 boats fished in Sumner Strait, and 65 boats fished in District 108 (Appendices A. 1 and A.7). Time was reduced to an initial three days of fishing in both districts. Fishing ground surveys showed that sockeye salmon catch rates were below average in District 108 but above average in Sumner Strait (106-41). The Clarence Strait (106-30) sockeye salmon catches were low due to poor weather and minimal fishing opportunities. The effort fell substantially this week due mainly to boats leaving for the Juneau area where chum salmon catches were rapidly growing. An additional two-day midweek opening was announced this week in District 108 due to good catch rates in Sumner Strait and a small fleet size. The inseason otolith readings for week 28 indicated that the marked Tahltan fish contributed $13.1 \%$ of the District 106 catch and $13.9 \%$ of the District 108 catch. The marked Tuya fish contributed $26.0 \%$ and $32.7 \%$ in District 106 and 108, respectively. The SMM decreased the Tahltan component to 90,000 fish, with a U.S. TAC of 33,000 fish. The estimated U.S. Tahltan harvest by the end of this week was 14,000 sockeye
salmon. The model run produced by Canada this week suggested that the total Tahltan run was likely closer to 60,000 sockeye salmon. This lower forecast was made using a correlation between historical inriver catch rate data and Tahltan sockeye salmon weir counts. Rather than abandoning the model mid-season, though, the higher Tahltan forecast was used with a verbal caveat that a 70,000 Tahltan sockeye salmon total run size may be more appropriate. Regardless, U.S. fisheries had harvested an estimated small Tahltan sockeye salmon component at this point and the thermal marked proportions were decreasing in both districts.

During week 29 (July 13-19), there were 50 boats fishing in District 106 and 61 boats fishing in District 108 (Appendices A. 1 and A.7). Both districts were open for an initial two days. This week marked the beginning of conservation measures for McDonald Lake sockeye salmon and the District 106 fishery was scheduled to have two-day openings from week 29 through week 31. Any additional time over this period would be in the form of midweek openings in District 108. The majority of fishermen in District 108 had switched to larger gear to target chum salmon and were fishing in the southern reaches of the district. Fishing ground surveys showed sockeye salmon catch rates for the small amount of boats that were actually targeting sockeye salmon in District 108 were well above average. The sockeye salmon catch rates in District 106 were average to above average. Solid sockeye salmon catch rates and a small sockeye salmon fleet resulted in an additional two-day midweek opening in District 108. The inseason otolith readings for week 29 indicated that marked Tahltan fish contributed to $2.6 \%$ of the District 106 catch and $7.7 \%$ of the District 108 catch. The SMM estimated a U.S. Tahltan TAC of 31,000 sockeye salmon this week. Again, the estimated total Tahltan sockeye salmon run size was likely inflated by the model. The U.S. harvest of Tahltan sockeye salmon through week 29 was estimated at 16,000 fish. The SMM estimated a U.S. mainstem harvest of 5,000 sockeye salmon with a U.S. TAC of 13,000 fish.

During week 30 (July 20-26), there were 39 boats fishing in District 106 and 38 boats fishing in District 108. Both districts were open for an initial two days. Sockeye salmon catch rates in both districts were below average. No additional time was warranted in either district this week. The SMM estimated a total U.S. mainstem harvest of 6,500 fish with a U.S. TAC of 15,000 fish. Marked Tahltan/Tuya sockeye salmon were nearly nonexistent in District 106 this week while $3.3 \%$ and $9.1 \%$ made up the marked Tahltan and Tuya components in District 108, respectively. The SMM estimated the total Tahltan run size at 72,000 fish with a U.S. TAC of 23,000 fish.

During week 31 (July 27-August 02), there were 24 boats fishing in District 106 and 52 boats fishing in District 108. Both districts were opened for an initial two days. Sockeye salmon catch rates in both districts were below average and additional fishing time was once again not warranted. The SMM estimated a total U.S. mainstem harvest of 8,000 fish with a U.S. TAC of 17,000 fish. The Tahltan run size dropped slightly to 71,000 fish. This was the last week of sockeye salmon management in both districts. The final inseason SMM run, released in week 35, estimated a total U.S. harvest of 40,390 Stikine sockeye salmon broken into 17,242 Tahltan fish, 14,680 Tuya fish, and 8,468 mainstem
fish. The US TAC for each component was 32,490 Tahltan fish, 8,795 Tuya fish, and 12,800 mainstem fish.

During weeks 32 through 35, both Districts 106 and 108 were managed for pink salmon. Both districts were open two days a week during this period. Section D of District 106 was closed from week 32 through week 36 . Poor runs of pink salmon throughout this time period resulted in below-average gillnet openings. Pink salmon harvests in both districts are not always a true reflection of abundance because low prices for pink salmon and catches of other more valuable species may affect the fishing patterns and methods. During the 2008 season, the fishing effort was less than average in District 106; however, in District 108 the effort was generally well above average for this time period. The anticipated hatchery chum salmon run in District 108 was the catalyst behind the increased effort in the district at this time. Total pink salmon harvests were far below average in both districts

Coho salmon management typically commences in late August or early September in both the District 106 and 108 gillnet fisheries. During week 36 (August 31-September 06) the management emphasis changed from pink to coho salmon. Prior to the switch to coho salmon management the District 106 fishery harvested 47,260 coho salmon, approximately $41 \%$ of the total District 106 coho salmon catch. Weekly Alaska hatchery coho salmon catch rate in the District 106 fishery was average to above-average the vast majority of the season. Total average weekly coho salmon catch rates reflected the hatchery contribution in District 106 and were above the weekly average the majority of the season. The weekly coho salmon harvests in District 106 were still generally well below average due to well below average effort. In District 108, weekly coho salmon harvests were above average most of the season due to the high effort. Coho salmon harvests in both districts tapered off the last three weeks of the season. Both districts had a three-day opening in week 36, followed by two four-day openings in weeks 37 and 38 , and then two three-day openings in weeks 39 and 40 . The 2008 gillnet season in both districts ended at noon on Wednesday, October 1.

## Canadian Fisheries

Catches from the combined Canadian commercial and aboriginal gillnet fisheries, and sport fishery in the Stikine River in 2008 included: 7,906 large Chinook, 1,067 non large Chinook, 33,651 sockeye, 2,398 coho, 90 chum, and 88 pink salmon. A large portion of the total chum and pink salmon catches were not retained. (Appendices A. 12 - A.16). A new 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 yield a catch of 1,955 sockeye and 14 Chinook salmon (Table 3). Because of the recently established targeted Chinook salmon commercial fishery, the catches of large Chinook salmon were well above average and the fourth highest on record. Catches of non large Chinook salmon were also well above average. The sockeye salmon catch was well below average. The estimated contribution of sockeye salmon from the Canada/U.S. fryplanting programme to the combined Canadian aboriginal and commercial fisheries was 19,882 fish, $54 \%$ of the catch (Table 3).

A sockeye salmon test fishery was conducted for stock assessment purposes in the lower Stikine River from 11 July to 06 September, 2008. The test fishery was located immediately upstream from the Canada/U.S. border. Test fishery catches totaled: 13 large Chinook, 10 non large Chinook, 1,110 sockeye, 338 coho, 129 pink, and 276 chum salmon (all steelhead trout, chum and pink salmon were released) (Appendices A.17, A.18). The objectives of the sockeye salmon test fishery were similar to those in previous years: to provide inseason catch, stock ID and effort data for input 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. Unfortunately, no sockeye salmon test fishing was conducted during the late June and early July due budget constraints. Proxy test fishery catches and CPUE for July were calculated based on the performance of the commercial fishery and the historical co-relation between commercial and test CPUE, 1996-04.

A coho salmon test fishery was conducted in the lower Stikine River from 11 July to 06 September 2008. The test fishery was located immediately upstream from the Canada/U.S. border. Test fishery catches totaled: 01 sockeye, 199 coho, and 02 chum salmon (all live fish were released) (Appendices A.17, A.18). The objectives 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 (1986-2006), which provided a general sense of relative run strength of Stikine coho salmon.

## Lower Stikine River Commercial Fishery

Canadian commercial fishers in the lower Stikine River harvested 7,051 large Chinook, 908 non large Chinook, 28,636 sockeye, 2,398 coho, and 88 pink and 90 chum salmon in 2008. (Appendix A.12). The majority of pink and chum salmon were released; all steelhead trout were released. The sockeye salmon catch was below average. The catch of large Chinook salmon in the fourth year of the new, targeted fishery was the lowest on record since the 2005 inception of a targeted Chinook salmon fishery. The catch of non large Chinook and coho salmon were above average. The targeted Chinook salmon fishery was opened for a total of 23 days, below the recent 3-year average of 31 days. The fleet targeted sockeye salmon for a total of 24 days, below the average of 32 days. The coho salmon fishery was opened for a total of 10 days, above the average of 7 days.

The stock composition of the lower river sockeye salmon catch was 6,533 planted Tahltan fish ( $23 \%$ ), 6,922 wild Tahltan fish ( $24 \%$ ), 4,028 mainstem fish ( $14 \%$ ), and 11,153 planted Tuya fish (39\%).

Stock compositions of the commercial catch taken in the targeted Chinook and coho salmon fisheries are not available. However, assuming that the Chinook salmon catch reflects the contribution of the Little Tahltan and 'other' stocks to the total inriver escapement, the commercial catch of Chinook salmon of Little Tahltan origin was 1,036 large Chinook salmon, the catch of large Chinook salmon originating from 'other' stocks was 6,015 fish.

Weekly Chinook and sockeye salmon guideline harvests, based on SCMM, SMM and other forecasts of the total allowable catch (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 catch, 1,100 large Chinook salmon were allocated to the upper Stikine fisheries: 150, 50, and 900 large Chinook salmon in the sport, upper commercial and Aboriginal fishery, respectively. A total of 8,000 sockeye salmon was 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 week 25 (June 15-21) was focused primarily on the harvest of large Chinook salmon. From week 26 through week 30 (June 22-July 26) management emphasis switched to the Tahltan and Tuya lake sockeye salmon stock after which time the sole focus was the management of mainstem sockeye salmon stocks through the end of the fishery week 33 (August 10-16). The coho salmon management regime commenced on week 35 (August 24).

The Chinook salmon fishery commenced at noon May 04 (week 19) for a scheduled opening of two days. Fishers were limited to two nets with a maximum length of 135 metres. The maximum mesh size was 203 mm . Only one of the two nets was permitted to be deployed as a drift gillnet. The upper boundary of the fishing zone extended to a point near the confluence of the Porcupine and Stikine rivers. The opening was based on a preseason Canadian guideline harvest for week 19 of 215 large Chinook salmon. Water levels were extremely low which resulted in limited drift gillnetting activity and, therefore, reduced exploitation. Further, based on the poor commercial catch and the below average catch at the Kakwan tagging site, it was assessed that the Chinook salmon were not yet present in the fishing grounds in numbers required to achieve the weekly quota The total catch for this week was 99 large Chinook salmon. The fishery was held at two days.

The fishery was posted for two days in week 20 (May 11-17) with a weekly target of 547 large Chinook salmon. The day one catch of 240 fish and the projected catch for two days of at least 480 fish did not warrant an extension. Day two catches yield only 125 fish for a total weekly catch of 375 large Chinook salmon, 172 fish below the weekly guideline harvest. The low catch in day two was probably due to a spike in water levels. The cumulative catch per hour registered at the Kakwan tagging site, under good fishing conditions, was $\sim 28 \%$ average. The 2006-07 Kakwan CPUE were not used in the historical data base due to atypical fishing conditions in those years.

In week 21 (May 18-24) the preseason run size estimate of 46,100 large Chinook salmon remained as the governing run size even though latitude was given to the managers to generate an inseason run size before May 25 as agreed to in the preseason management plan. Both US and Canadian managers reasoned there was no compelling inseason information that warranted an inseason estimate before the agreed to date. The water level increased this week to above the seasonal average. The fishery was posted for two
days in week 21 (May 18-24) with a weekly target of $\sim 470$ large Chinook salmon. The day one catch of 123 large Chinook salmon warranted a one day extension; the day two catch of only 95 fish warranted an additional day for a total of a four day opening. Fishing success improved in day three and four resulting in a final catch of 535 Chinook salmon was slightly above the weekly guideline harvest for this week. The catches at Kakwan Point tagging site remained below average. The U.S. cumulative CPUE in District 108 gillnet fishery was below average catch per boat day, as was the Canadian commercial CPUE. It appeared that the fishing conditions thus far were similar to the fishing conditions faced in the 2006 season. The performance of the 2006 fishery and the run size were contrasted with the 2008 season as additional tools in assessing run size.

The fishery was posted for three days in week 22 (May 25-31) with a weekly target of $\sim 1,100$ large Chinook salmon and a projected run size of 46,100 Chinook salmon (remained with the preseason estimate). The water level increased at the outset of the opening and crested mid-week. After a catch of 230 fish or $21 \%$ of the weekly quota in two days, a two day extension was announced for a total of five days this week. This resulted in a total catch of only 472 large Chinook salmon, well below the weekly guideline harvest for this week. A new run size estimate of 43,000 large Chinook salmon was generated late in the week to serve to govern next week's fishery. Kakwan catches remained below average. The U.S. cumulative CPUE in the District 108 gillnet fishery continued to be below average. The Canadian commercial CPUE followed suit and was ~30\% below average.

The fishery was posted for two days in week 23 (June 01-07) with a weekly target of $\sim 1,100$ large Chinook salmon and a projected run size of 43,000 Chinook salmon. Day one catches indicated that an extension was warranted. A one day extension was granted. After two days of fishing the catches indicated that an addition two day extension was warranted for a total of five fishing days this week. The final catch of 1,350 large Chinook salmon was above the guideline harvest for this week as a result of the unexpected high catch of over 400 fish in day five. This week's CPUE was well above the recent 3 -year average and it appeared that the run was building as the week progressed. A new model of 42,000 large Chinook salmon was generated during the fishery. This new run size governed the latter part of this week's fishery and next week's opening. The cumulative CPUE at the Kakwan Point tagging site was $\sim 40 \%$ below average.

In week 24 (June 08-14) the fishery was posted for a three day initial opening. The model run size estimate was 42,000 large Chinook salmon with a weekly guideline harvest of 1,500 fish. The day one catch of over 600 fish and the projected catch over a three day opening of $\sim 1,800$ fish resulted in holding the fishery at three days in deference to the weekly guideline harvest. The final catch was 1,822 fish, caught under very good fishing conditions as a result of record low water, was $20 \%$ above the guideline catch. The CPUE, however, decreased as the week progressed which indicated that the run was probably early arriving. Average run timing showed the run to peak in week 25 (June 1521). The model estimates were adjusted to reflect early run timing. The cumulative Kakwan Point CPUE was $\sim 30 \%$ below average; the Canadian commercial CPUE was ~
$20 \%$ below average. A new run size estimate based on the m-r of 41,000 fish was generated on Thursday of week 24. The new estimate was used to govern the initial fishing days in the week 25 fishery.

The fishery was posted for two days in week 25 (June 15-21) with a weekly target of $\sim 1,500$ large Chinook salmon and a projected run size of 41,000 Chinook salmon. A new run size estimate generated after one day of fishing and based on the m-r project showed the run dropping to 38,000 large Chinook salmon and a weekly guideline harvest of $\sim 1,300$ fish. After two days of fishing and a catch of $\sim 780$ fish, it was decided to hold the fishery to three days of fishing. The sockeye salmon catch was relatively good considering the catch was taken with large mesh ( $203 \mathrm{~mm} / 8 \mathrm{in}$ ). The run size estimate generated at the end of the fishery remained at 38,000 large Chinook salmon. This estimate was based on the average run size generated from the model and the m-r project.

In week 26 (June 22-28) the fishery was initially opened for three days with management emphasis on sockeye salmon. Maximum gillnet mesh size was reduced to of 150 mm ( 5.75 in ). The weekly guideline harvest for Chinook salmon was 660 fish. The catch and CPUE of sockeye salmon was well above average. This observation in concert with a guideline harvest of 6,500 sockeye salmon prompted a two day extension for a total of five days fishing this week. The total catch was 650 Chinook salmon, close to guideline, and 8,100 sockeye salmon which was above the guideline catch for this week. Daily otolith, scale, and egg diameter samples were collected commencing in week 25 which showed the Tuya and Tahltan bound sockeye salmon represented $\sim 54 \%$ and $\sim 41 \%$ of the catch, respectively. The fishing conditions were excellent due to the record seasonally low water levels. The strong sockeye salmon catches in US districts 108 in week 25 and the above average preliminary catches reported this week, however, indicated that there was a high probability that the inseason run size estimate would exceed the preseason forecast A model estimate generated at the end on this week's fishery calculated a run size of $\sim 259,000$ sockeye salmon The Chinook salmon CPUE at the Kakwan Point tagging site improved this week, but still was below the seasonal average. Catches of Chinook salmon in the First Nations fishery were above average. No counts registered at the Little Tahltan weir this week when on average 21 fish should have transited the weir.

In week 27 (June 29-July 05) the fishery was posted for an initial opening of four days. The first SMM estimate of the season, generated in week 26 , projected a run size of 259,000 sockeye salmon. A second estimate of 221,400 fish was generated during after two days of fishing. This estimate showed a total TAC of 76,500 fish with a weekly guideline harvest of 14,600 fish. A catch of 3,300 fish after two days of fishing warranted a one day extension for a total of five fishing days this week. There was suspicion that the model was overestimating the run due to abnormally high exploitation of the Canadian fishery as a result of the near record low water levels. The fishery was therefore held at five days even though the weekly guideline harvest indicated that more fishing time was warranted. The US District 108 catch dropped this week which, in part, supported the assumption that the model may be overestimating the run. The otolith and egg diameter data through till week 27 continued to show a high portion of Tahltan and Tuya Lake sockeye salmon. The total catch of 9,800 sockeye salmon was comprised of 5,400

Tahltan Lake, 4,000 Tuya Lake, and 480 mainstem fish. The CPUE of Tahltan sockeye salmon caused some concern in that it was only half of average.

In week 28 (July 06-12) the fishery posted for two days. The initial SMM estimate for this week which was run late in week 27 was $\sim 220,000$ sockeye salmon. A second estimate generated after one day of fishing generated a run size of 189,000 sockeye salmon. In light of the relatively low catches and CPUE under very good fishing conditions the estimate was abandoned in favour of assessing the run based on harvest rate approach. This approach used the total catch by stock grouping (Tahltan, Tuya, and Mainstem sockeye salmon) and expanded the total catch by an estimated harvest rate in order to generate a total run size to date. This run size, in turn, was expanded by average run fraction through to date. The projected US catch was added to this expansion, thus providing a total run size estimate. This stock assessment approach resulted in a total estimated run size of 162,600 sockeye salmon and a Canadian TAC of 45,400 fish. Even with this lower run size, it was thought a one day extension was warranted. The catches and CPUE were very low during the first two days of fishing under very good fishing conditions. Of special concern was the relatively weak showing of Tahltan Lake sockeye salmon. The fishery was therefore held to three days this week. The total catch after three days of fishing was $\sim 3,600$ sockeye and $\sim 180$ Chinook salmon. Sockeye salmon run size estimates were discussed in detail with the US. It was generally agreed that the model was probably over estimating the run. The sockeye salmon catch was well below the weekly allocation of $\sim 6,800$ fish; the Chinook salmon catch was also below weekly guideline harvests. The Chinook salmon run size based on averaging the m-r and model estimate remained at 38,000 large fish. (The Kakwan tagging projected concluded on 08 July). Sockeye salmon had not yet arrived at Tahltan Lake. On average the Tahltan sockeye salmon arrive at the lake around July 11. The First Nations catches were above seasonal averages, which may be due, in general, to improved gear efficiency as a result of the relatively low water conditions.

In week 29 (July 13-19) the fishery was opened for an initial two day period. The run size estimate based on the harvest rate approach and a new regression model that generated the run size of Tahltan Lake sockeye salmon based on the cum weekly CPUE (1998-07; $\mathrm{r}^{2}$ from 0.65 in week 28 to 0.91 in week 33 ) indicated a run size of $\sim 158,700$ fish The expected run of mainstem sockeye salmon was estimated at 40,000 fish, which was below the preseason expectation of 55,700 sockeye salmon. The CPUE of Tahltan sockeye salmon was less than half of average. The new regression model predicted a total inriver run of $\sim 33,000$ Tahltan sockeye salmon and a weir escapement of 15,000 fish. The fishery was thus held at two days. The total catch taken over the two day fishery was $\sim 3000$ sockeye salmon. The catch was composed of $\sim 1,500$ Tahltan Lake, $\sim 1,000$ Tuya Lake and $\sim 500$ mainstem fish. It appeared that the run size was well below the SMM estimates use by US manager. The US manager was apprised of this. The articulated that they extended their fishery two days based on the low effort, relatively good catch rates this week. The inriver CPUE of mainstem fish remained below average. The catch and CPUE of sockeye salmon in the First Nations fishery remained above seasonal averages. The Tahltan weir count remained at zero fish, while the average count for this date is 5,000 fish

In week 30 (July 20-26) the fishery was opened for an initial two day period. The run size was estimated at 150,000 fish. Fishing conditions were relatively good, but the fishery was held at two days to protect the weak run of mainstem fish. The total catch was 1,400 sockeye salmon, 200 of which were of Tahltan Lake origin and approximately 900 were mainstem origin. Tuya origin sockeye salmon constituted the balance of the catch. The CPUE of the mainstem component increased but remained below average. The cumulative catch of 3,900 sockeye salmon in the First Nations fishery remained above seasonal averages. The projected total escapement based on the new regression was 11,500 fish. The projected total weir count based on the current number of fish through the weir $(6,700)$ and expanded to reflect run timing was 7,100 fish.

In week 31 (July 27-August 02) the fishery opened for an initial two day period. The run size estimate dropped to 134,300 fish and continued to indicate a weak run of mainstem fish. The quota of mainstem sockeye salmon was estimated at 900 fish (Tahltan and Tuya sockeye salmon had, in general, transited the fishery by this week.) The CPUE of mainstem fish remained below average. No extension was therefore given to the fleet. The total sockeye salmon catch this week was 1,500 fish, 200 of which were of Tahltan Lake origin and approximately 1,300 were mainstem fish. Tuya origin fish constituted the balance of the catch. Sockeye salmon counts at Tahltan Lake remained below average this week. The projected weir count, based on counts to date, was 14,000 fish. The projected weir counts based on the regression estimate was for an escapement of $\sim 11,200$ fish to Tahltan Lake. The First Nations catches dropped to about average. Most of the fishers concluded their fishing season this week. Five licences from the lower river commercial fishery also ceased fishing at the end of this week.

In week 32 (August 03-09) the fishery opened for an initial one day period. The total run size estimate dropped slightly to 134,700 sockeye salmon. The mainstem component increased slightly to 43,000 fish. The fishing effort was reported at the outset of day one fishing. In light of this observation the fishery was held at one day. The CPUE of the mainstem component was a seasonal high and slightly above average. The total catch was $\sim 400$ sockeye salmon, the majority of which were of mainstem origin. A total of 41 coho salmon was also harvested this week. The fleet showed no indications of targeting coho salmon this year. The cumulative sockeye salmon count at Tahltan Lake this week was ~9,900 fish, with a projected count of 11,500 The First Nations catches and CPUE were slightly below average.

In week 33 (August 10-16) the fishery opened for an initial one day period. The run size was estimated of 124,500 sockeye salmon. The mainstem sockeye salmon component remained at $\sim 43,000$ fish. There was relatively little commercial fishing activity expended. It was decided to hold the fishery at one day. The sockeye salmon test fishery continued from its start date of July 11 (fished 1-3 days per week) with the overall CPUE (sockeye salmon catch per drift) below average. The bulk of catch of 44 fish consisted of mainstem sockeye salmon. The cumulative sockeye salmon count at Tahltan Lake this week was 10,341 fish. The First Nations fishery concluded this week.

In week 34 (August 17-23) the fishery was again opened for an initial one day opening. No commercial fishing activity occurred this week; no extensions given. The sockeye salmon test fishery overall CPUE remained below average, with the bulk of catch consisting of mainstem sockeye salmon. The test fishery ended on September 05. The cumulative sockeye salmon count at Tahltan Lake this week was 10,427 fish. The projected escapement based on the regression model was $\sim 10,400$ sockeye salmon.

In week 35 (August 24-30) the fishery was opened through October 20. This action was taken in order to provide coho salmon fishing opportunities should any of the commercial fishers decided to fish. The six remaining licences on the river targeted coho salmon during weeks 36-37 (August 31-September 13) and yielded a catch of 2,337 coho salmon, well above the average catch of 240 fish. September 10 was the last day of commercial fishing activity on the Stikine River.

## Upper Stikine River Commercial Fishery

A small commercial fishery has existed near Telegraph Creek on the upper Stikine River since 1975. A total of 505 sockeye salmon was caught in 2008, which was above average (Appendix A. 14). Nine non large and 40 large Chinook salmon were harvested. The non large and large Chinook salmon harvest was above average. The fishing effort was slightly below average with 14 boat-days fished. Generally, fishery openings were based on the lower Stikine commercial fishery openings, lagged one week. The first opening, however, was concurrent with the lower fishery opening.

## Aboriginal Fishery

The Stikine River aboriginal fishery, which is located near Telegraph Creek, harvested 769 large Chinook, 150 non large Chinook, and 4,510 sockeye salmon (Appendix A. 15). The harvest of large Chinook salmon was average and the sockeye salmon harvest was below average. The harvest of non large Chinook salmon was below average. Run timing to the fishing grounds appeared to be normal, unlike 2007 and 2006 late returning runs. The fishing conditions were, in general, good.

## Sport Fishery

The Stikine River salmon sport 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 River. The 2008 the catch estimate was 46 large Chinook salmon, all of which were taken in the Telegraph Creek area.

## Escapement

## Sockeye Salmon

A total of 10,516 sockeye salmon was counted through the Tahltan Lake weir in 2008; well below average (Appendix A.20). The 2008 count was approximately well below the
escapement goal of 24,000 and was well below the low end of the escapement goal range of 18,000 to 30,000 fish. An estimated 5,120 fish ( $49 \%$ ) originated from the fry-planting program which is close to the $48 \%$ contribution of smolts observed in 2005, the principal cycle year contributing to the 2008 run. A total of 100 sockeye salmon was sacrificed at the weir for stock composition analysis. In addition, a total of 2,364 sockeye salmon was collected for broodstock, resulting in a spawning escapement of 8,052 sockeye salmon in Tahltan Lake. Based on the final inseason SMM estimate of 89,900 inriver Tahltan Lake sockeye salmon, minus the inriver catch of 16,975 , the escapement to Tahltan Lake had been projected to be $\sim 52,000$ fish.

Based on a new regression model the generates inriver Tahltan Lake sockeye salmon run size and Tahltan escapement from historical Tahltan sockeye salmon CPUE in the lower river commercial fishery against the total run size and Tahltan Lake weir counts, the projected count based on the final running of the estimate in week 34 was 10,675 fish. Tahltan River was flown to assess for fish blockages in July. Tashoots Creek, draining Tahltan Lake, was also assessed for fish blockages. None was observed in either river; however, a chute type falls located $\sim 6 \mathrm{~km}$ upstream from the mouth of the Tuya River may be a partial fish barrier at certain flow regimes. It is recommended that this site be investigated by restoration biologists to assess potential fish passage limitations. Note that DFO conducted fish passage work at this site in the mid 1960(s).

The spawning escapements for the non-Tahltan and the Tuya stock groups are calculated using stock ID, test fishery and inriver catch data. Because neither the test fishery nor the commercial fishery operated for the duration of the sockeye salmon run (test fishery operated weeks $30-34$; the commercial fishery operated weeks 19-32), a decision was made to use the commercial fishery CPUE to assess inseason run size. Proxy commercial CPUE were used post week 33. The proxy figures were based on the linear relationship between the commercial CPUE and the test fishery CPUE in 1986-04. All of the weekly data sets were significantly correlated. Based on this run reconstruction approach, the escapement estimates are 16,381 non-Tahltan and 9,804 Tuya sockeye salmon (with 280 Tuya fish later removed for biological samples). The non-Tahltan spawning escapement estimate is well below the escapement goal range of 20,000 to 40,000 fish. Near record low aerial survey counts of non-Tahltan sockeye salmon followed suit. The index count of only 403 fish, observed on 12 Sept, was well below average.

The existence of planted 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 was conducted in August and September, 2004 and April and May 2005 and concluded that in the short term the straying of Tuya River sockeye salmon does not pose a genetic risk to natural mainstem Stikine River sockeye salmon; however, over the long term, given enough straying, an interaction of Tuya strays with natural sockeye salmon may occur.) To address problems associated with fish capture in the lower Tuya River; fishway/trapping apparatus was constructed during the spring of 2006. Unfortunately the Tuya fishtrapping project was
not prosecuted because of a major rock slide 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 US engineers and others visited the site in August 2007 to assess the conditions and to consider and discuss other fish capture options. The steering committee decided to proceed with a blasting plan so 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 and an abnormal amount of ice at the blasting site. In late October and early November 2008 the project proceeded and succeeded to remove approximately $120 \mathrm{~m}^{3}$ of rock from the slide area. The efficacy of the project will be assessed in July 2009 upon the run of Tuya sockeye salmon.

A proposal, funded through the Northern Fund, requesting weir and trap design at a site located upstream from the blasting site will be tendered to engineering firms in the spring of 2009. The proposal will cover both design and cost of a trap as well as the routing and cost of a tote road to the fishing site.

A new, experimental test fishery designed to harvest exclusively 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 31 July. The test fishery harvested 1,955 sockeye and 14 Chinook salmon. The harvest rate on Tuya sockeye salmon was estimate at $\sim 20 \%$ ( $1,921 / 9,804$ ). The analysis from the otolith samples indicated that this fishery did not harvest exclusively Tuya bound sockeye salmon. Of the 87 samples analyzed, $30 \%$ were not thermally marked, $5 \%$ were thermal marked Tahltan fish, and the balance was thermal marked Tuya sockeye salmon. The analyses of samples collected in the Tuya River concurrent with the test fishery showed that $100 \%$ of the fish were thermal marked, $\mathrm{n}=140$. These data indicate that this experimental fishery harvested both Tahltan (wild and thermally marked) and mainstem wild sockeye salmon in relatively high numbers. 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 2008 Chinook salmon escapement enumerated at the Little Tahltan weir was 2,663 large fish and 139 non large Chinook salmon (Appendix A.22). The escapement of large Chinook salmon in the Little Tahltan River was $39 \%$ of average and $20 \%$ below the MSY escapement goal for this stock of 3,300 large Chinook salmon. The weir count was very close to meeting the low end of the escapement goal range of 2,700 to 5,300 large fish.

A mark-recapture study was conducted again in 2008 concurrent with the SCMM to assess the inriver Chinook salmon abundance. Inseason mark-capture estimates were calculated weekly post week 23 (week ending June 09). The final estimate of total system-wide spawning escapement, based on tag recoveries in the commercial fishery
was 18,352 large Chinook salmon, $52 \%$ of average and $5 \%$ above the escapement goal of 17,400 large Chinook salmon. The escapement to the Little Tahltan River represented approximately $14.5 \%$ of the total Stikine River escapement. The percentage is below the average Little Tahltan contribution of approximately $17 \%$.

Stikine River Chinook salmon run timing to the Lower Stikine commercial fishing grounds was approximately one half to one week earlier than normal. Fish arriving at the Little Tahltan weir were two weeks late. The rationale for the early entry into the lower Stikine River and late entry into the Little Tahltan spawning grounds is unknown. Verrett Creek escapements counts were also weak as reported by the carcass pitch crew stationed at the creek from 04-13 August. A very weak run of Shakes Creek Chinook salmon was also reported by residents living at the creek mouth.

## Coho Salmon

Aerial surveys of four index sites were conducted on 15-16 November. The combined count of 1,147 coho salmon, under relatively good viewing conditions, was well below average. The remaining four index sites were not surveyed due to inclement weather and time constraints.

A coho salmon drift gillnet test fishery was conducted from 07 Sept to 14 October 2008. The total catch was 199 coho, and 2 chum salmon taken in 422 drift fishing events. Each event was approximately $10-15$ minutes in length. Net dimension were constant at 33 metres , 5.5 " ( 150 cm ) mesh, by 30 meshes deep. The total cum weekly CPUE (catch per drift) was 5.7 fish; above average. This test fishery has been operated a various levels of vigour since 1986 through to 2006. Funding in 2007 was not granted.

## Sockeye Salmon Run Reconstruction

The terminal Stikine River sockeye salmon run size is estimated to be approximately 119,360 . Of this number, approximately 46,006 were of Tahltan Lake origin (wild \& planted), 41,670 were of Tuya origin (fry from Tahltan broodstock planted into Tuya Lake), and 31,684 were mainstem stocks (Table 3). These estimates are based otolith recovery and analysis and scale pattern analysis in the U.S. Districts 106 and 108 catches; otolith analysis, egg-diameter stock-composition estimates for inriver catches from the Canadian commercial, aboriginal, ESSR, and test fishery catches; and escapement data. Analysis of the CPUE data from the commercial and test fisheries indicate a range in escapement estimates.

## TAKU RIVER

Taku River salmon are harvested in the U.S. gillnet fishery in the 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 aboriginal fishery, and a sport fishery.


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

## Harvest Regulations

New fishing arrangements were in place in 1999 as a result of negotiations between Canada and the United States of Annex IV, Chapter 1 of the Pacific Salmon Treaty. As with the fishery regimes for the Stikine River, details of the February 2005 agreement including harvest sharing provisions as well as the fishery regimes adopted in 1999 are included in the Transboundary Annex (Annex IV) of the Pacific Salmon Treaty and can be found at: http://www.psc.org/pubs/treaty.pdf.

## U.S. Fisheries

The traditional District 111 commercial drift gillnet salmon fishery was open for a total of 49 days from June 15, through October 8, 2008 (Appendix C.1). The harvest totaled 1,721 large Chinook, 472 non large Chinook, 116,693 sockeye, 37,349 coho salmon, and 90,162 pink and 774,095 chum salmon. Harvests of coho and chum salmon were above average, while the harvest of Chinook, sockeye, and pink salmon were below average. The harvest of Chinook salmon was above average if the directed Chinook fishery weeks during 2005 and 2006 are not included in the data. Weekly commercial fishery harvests and stock composition estimates for these fisheries are provided in Appendices C.1-C.3.

Hatchery stocks contributed substantially to the numbers of both sockeye and chum salmon harvested and minor numbers to the harvest of other species. The 2008 season was the ninth year of substantial numbers of adult sockeye salmon returning to the Snettisham Hatchery inside Port Snettisham. These fish contributed substantially to the harvests primarily in Stephens Passage. The Speel Arm Special Harvest Area (SHA) inside Port Snettisham was not opened to common property fishing in 2008.

The total 2008 traditional drift gillnet Chinook salmon harvest in District 111 was 1,721 large fish and 472 non large. Due to low run size forecasts for preseason and inseason estimates, there was no directed Chinook salmon fishery in District 111 this season. CWT analysis indicates Alaskan hatchery Chinook salmon contributed 715 fish, or $42 \%$ of the total 2008 District 111 Chinook salmon harvest. The Taku River stock assessment program at Canyon Island provided data to estimate the above-border Chinook salmon run. This data with the spawning ground mark-recapture data was used to estimate the spawning escapement of 27,383 large Chinook salmon, near the current lower bound of the 30,000-55,000 fish range.

The traditional District 111 sockeye salmon harvest was 116,693 fish; below average (Appendix C.1). Weekly sockeye salmon harvests were below average during most weeks with the exception of weeks 29-31 and week 38 . Weekly sockeye salmon CPUE was below average except in week 25, weeks 29-31, and week 38. Domestic hatchery sockeye salmon stocks began to contribute to the traditional fishery in week 27 and added substantial numbers to the harvests in weeks 29-32. Fishers targeting these runs of hatchery sockeye salmon and the Limestone Inlet hatchery chum salmon increased the amount and percentage of fishing effort that occurred in Stephens Passage. Of the total traditional District 111 sockeye salmon harvest, $30 \%$ occurred in Stephens Passage; average. The contributions of wild Taku River and Port Snettisham thermally marked
sockeye salmon from fry plants was estimated inseason from analysis of otoliths and postseason from scale pattern analysis. The estimated stock composition of the harvest of sockeye salmon in the traditional district was 63,022 ( $54 \%$ ) wild Taku River, 11,680 (10\%) planted Tatsamenie, 9,544 (8\%) wild Port Snettisham, and 32,467 Snettisham hatchery fish (Appendices C. 2 and C.3). Due to lower than anticipated runs of wild and hatchery Port Snettisham sockeye salmon, the Speel Arm SHA was not opened during the common property fishery in 2008.

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 37,349 fish was above average (Appendix C.1). Weekly coho salmon harvests were generally above average, the weeks with below average harvests were $26,29,38,40$ and 41 . Coho salmon CPUE was also generally above average falling below average during weeks $26,37,38,40$, and 41 . CWT analyses indicate Alaskan hatchery coho salmon contributed 2,443 fish or $7 \%$ of the traditional District 111 harvest. Early season estimates of Taku River coho salmon abundance indicated an above average run size, but the final estimates indicated a below average run size.

The traditional District 111 chum salmon harvest of 774,095 fish was above average (Appendix C.1). The summer chum salmon harvest of 768,712 fish comprised $99 \%$ of the season's chum salmon harvest and was a record high and twice the average. The summer chum salmon run is considered to last through mid-August (week 33) and was comprised mostly of domestic hatchery fish, with small numbers of wild fish contributing to the harvest. Chum salmon runs to DIPAC hatcheries in Gastineau Channel and to the DIPAC remote release site at Limestone Inlet contributed a major portion of the harvest but quantitative contribution estimates were not available. Approximately $65 \%$ of the total traditional District 111 chum salmon harvest was made in Taku Inlet, 35\% in Stephens Passage. The harvest of 5,383 fall chum salmon, week 34 and later, was above average. Most of these chum salmon are assumed to be wild fish of Taku and Whiting Rivers origin.

The District 111 pink salmon harvest of 90,162 fish was above average. (Appendix C.1).

Table 4. Taku sockeye salmon run reconstruction, 2008. Estimates do not include spawning escapements below the U.S./Canada border.

|  | Taku |  |  | Snettisham Stocks |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total | Wild | Planted | Total | Wild | Hatchery |
| Escapement | 68,059 | 63,892 | 4,167 |  |  |  |
| Canadian Harvest |  |  |  |  |  |  |
| Commercial | 19,284 | 17,242 | 2,042 ${ }^{\text {a }}$ |  |  |  |
| Food Fishery | 215 | 192 | 23 |  |  |  |
| Total | 19,499 | 17,434 | 2,065 |  |  |  |
| Test Fishery Catch | 10 | 10 | 0 |  |  |  |
| Above Border Run | 87,568 | 81,336 | 6,232 |  |  |  |
| U.S. Harvest a |  |  |  |  |  |  |
| District 111 | 74,682 | 63,002 | 11,680 ${ }^{\text {b }}$ | 42,011 | 9,544 | 32,467 |
| Personal Use | 1,010 | 921 | 89 |  |  |  |
| Total | 75,692 | 63,923 | 11,769 |  |  |  |

Test Fishery Catch 0

| Total Run | 163,260 | 145,259 | 18,001 |
| :--- | ---: | ---: | ---: |
| Taku Harvest Plan | Total | Wild | Planted |
| Escapement Goal | 75,000 | 75,000 | 0 |
| TAC | 88,260 | 70,259 | 18,001 |
|  |  |  |  |
| Canada |  |  |  |
| Base Allowable | 21,647 | 12,647 | 9,001 |
| Surplus Allowable | 0 | 0 |  |
| Total | 21,647 | 12,647 | 9,001 |
| Total \% | $24.5 \%$ | $18.0 \%$ | $50.0 \%$ |
| Actual | 19,499 | 17,434 | 2,065 |
| Actual \% | $22.1 \%$ | $24.8 \%$ | $11.5 \%$ |
|  |  |  |  |
| U.S. |  |  |  |
| Total | 66,613 | 57,613 | 9,001 |
| Total \% | $75.5 \%$ | $82.0 \%$ | $50.0 \%$ |
| Actual | 75,692 | 63,923 | 11,769 |
| Actual \% | $85.8 \%$ | $91.0 \%$ | $65.4 \%$ |

${ }^{\text {a }}$ Harvest of planted fish includes 137 marked Stikine sockeye salmon.
${ }^{\mathrm{b}}$ U.S. harvest estimate differs from Joint Interception Committee estimate because no estimates are made for catches other than the listed fisheries.

The 2008 pre-season forecast of 39,500 large Taku Chinook salmon did not allow for a directed Chinook salmon fishery beginning May 5 in District 111. Subsequent inseason
estimates did not support a directed Chinook salmon fishery. The 2008 District 111 drift gillnet fishery opened in June 15 in week 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 bi-laterally agreed forecast for Taku River sockeye salmon, early season management of the District 111 fishery is based on fishery CPUE and Canyon Island fish wheel catches. As the fishing season progresses sufficient data is acquired to estimate the inriver run size from the mark-recapture program at Canyon Island and to use that estimate in conjunction with migratory timing and historical fishery harvest data to forecast the entire Taku sockeye salmon run. In the first week of the season (week 25), which began June 15, two days of fishing time were allowed in Taku Inlet, which was closed north of Jaw Point (Subdistrict 111-32), and Stephens Passage (Subdistrict 111-31) to conserve the weaker than expected Chinook salmon run. Additionally, by regulation, gillnets fished in District 111 through the fourth Saturday in June are restricted to a maximum 6 inch mesh. The traditional District 111 sockeye salmon harvest in the first week was $78 \%$ of average.

In week 26 (June 22-28), District 111 was open for three days, with Taku Inlet again closed north of Jaw Point and the 6 inch mesh maximum requirement. The sockeye salmon harvest in week 26 was $68 \%$ of average. The first weekly sockeye salmon inriver run projection estimate of 148,000 fish was announced in week 26 (Table 5).

With below average observed effort, cumulative catch of sockeye salmon in the Canyon Island fish wheels above average, and inriver estimate and projection indicating adequate passage of Taku sockeye salmon, fishing time in District 111 for week 27 (June 29-July 5) was set for an average of four days. The traditional District 111 sockeye salmon harvest in week 27 was $53 \%$ of average.

Table 5. U.S. inseason forecasts of terminal run size, TAC, inriver run size, and the U.S. harvest of Taku River sockeye salmon for 2008.

| Stat | Inriver <br> Run | Terminal <br> Run $^{\text {a }}$ | Total <br> TAC | U.S. <br> TAC | Projected <br> U.S. Catch |
| :--- | ---: | ---: | ---: | ---: | ---: |
| 26 | 148,247 | 236,663 | 160,663 | 131,744 | 87,389 |
| 27 | 127,090 | 200,421 | 125,421 | 96,467 | 73,331 |
| 28 | 111,807 | 144,808 | 69,808 | 52,972 | 33,001 |
| 29 | 77,611 | 129,053 | 54,053 | 37,549 | 51,441 |
| 30 | 73,234 | 136,524 | 61,524 | 45,522 | 63,290 |
| 31 | 80,782 | 154,161 | 79,161 | 59,043 | 73,379 |
| 32 | 74,714 | 143,209 | 68,209 | 51,074 | 68,495 |
| 33 | 96,045 | 168,678 | 93,678 | 70,390 | 72,633 |
| Final | 89,894 | 169,771 | 94,726 | 72,432 | 79,832 |

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

In week 28 (July 6-12) District 111 was open three days with weaker inriver indicators and increased effort. The traditional District 111 sockeye salmon harvest for the week was $31 \%$ of average.

With increased effort, poor inriver indicators and poor sockeye salmon CPUE, District 111 was open for two days during week 29 (July 13-19), and the traditional District 111 harvest was $103 \%$ average for the week. Otolith analysis indicates $15 \%$ of the harvest in Taku Inlet and $9 \%$ of the harvest in Stephens Passage were of planted Tatsamenie origin.

During week 30 (July 20-26), Section 11-B north of Circle Point was again open two days based on average effort, strong fishery CPUE, but poor inriver indicators. Section 11-B south of Circle Point was open for three days with a six inch minimum mesh restriction to protect returning Port Snettisham bound wild sockeye salmon. The projected inriver estimate in week 30 was for 71,000 sockeye salmon. The week 30 , the sockeye salmon CPUE was $140 \%$ of average, and effort levels were $130 \%$ of average. Fish wheel catches improved although still below average for the time. The traditional District 111 sockeye salmon harvest of 30,150 fish was the peak of the season and was $152 \%$ of average. Otolith analysis indicates $16 \%$ of the harvest in Taku Inlet and $2 \%$ of the harvest in Stephens Passage were of planted Tatsamenie origin.

During week 31 (July 27-august 02), Section 11-B was again open for two days north of Circle Point, and for 3 days south of Circle Point with the six inch minimum mesh restriction. Fish wheel catches continued to improve with the daily catch equaling the average for the first time in a month. The inriver sockeye salmon projection was 82,400 fish. The sockeye salmon CPUE in week 31 was $106 \%$ of average, and the harvest was $108 \%$ of average. Otolith analysis indicated $11 \%$ of the harvest in Taku Inlet was of planted Tatsamenie origin, and $25 \%$ of the sockeye salmon harvest in Taku Inlet and $71 \%$ in Stephens Passage were Snettisham origin fish.

During week 32 (August 3-9), Taku Inlet was open for two days due to improving inriver indicators, but poor model projections. Stephens Passage was open for an average three days without the six inch minimum mesh restriction being past the peak presence of these fish in the fishery. The traditional District 111 drift gillnet sockeye salmon harvest of 12,200 fish was $50 \%$ of average.

The week 33 (August 10-16) opening was delayed until Monday to avoid conflict with the Golden North Salmon Derby taking place in Juneau area waters; Section 11B was open for two days due to poor model projections and weak escapements to Port Snettisham systems. The sockeye salmon harvest in District 111 was $18 \%$ of average. DIPAC Snettisham origin fish made up $27 \%$ of the harvest in Taku Inlet. The District 111 coho salmon harvest was $179 \%$ of average.

The fall drift gillnet season in District 111, when management focus switches from sockeye salmon to coho salmon abundance lasted eight weeks, beginning on August 17 in week 34, and lasting until October 8 in week 41. The first ADFG inriver coho salmon estimate generated in week 33 suggested a stronger run than forecast. Unfortunately, the above border test fishery that was to provide the second event for the inseason markrecapture inriver estimates from both coho and sockeye salmon tagged at the Canyon Island fish wheels did not take place in 2008. Based on good coho catches in the District

111 fishery and average numbers of fish caught in the Canyon Island fish wheels, openings of three days per week were held for the remainder of the season. Based on the solid coho salmon inriver estimate generated in week 33 and the observed catches in the Canyon Island fish wheels, it was estimated that the 38,000 fish PST minimum above border goal was achieved by the end of week 36. The traditional District 111 sockeye salmon harvest for week 34 (August 17-24) was $23 \%$ of average (Appendix C.1). The week 34 traditional District 111 coho salmon harvest was $213 \%$ of average. The traditional District 111 chum salmon harvest of 2,150 fish was $131 \%$ of average.

The coho salmon harvest in week 35 (August 24-30) was $159 \%$ of average with coho salmon CPUE $190 \%$ of average. 1,100 chum salmon were harvested in week $35,167 \%$ of average.

The season high harvest of 6,950 coho salmon by 32 boats in week 36 (August 31September 6) was $159 \%$ of average and the 990 chum salmon harvested was $125 \%$ of average harvest for the week. In week 37 (September 7-13) 6,500 coho salmon were harvested, $127 \%$ of average. The week 37 chum salmon harvest of 990 fish was $158 \%$ of average. After averaging 42 boats per week between week 34 and 37 , effort dropped to 24 boats in week 38 (September 14-20) and 12 boats in week 39 (September 21-27), with coho salmon harvests $45 \%$ and $129 \%$ respectively of average for these weeks. Chum salmon harvests showed a similar pattern with $32 \%$ and then $63 \%$ of average for these weeks. Four boats reported landing 150 coho salmon in week 40 (September 28-October $4)$, and the remaining week of the fishery, harvest information is confidential with less than three boats fishing. The season was closed to further fishing on October 8 in week 41

Several other fisheries in the Juneau area harvested transboundary Taku River salmon stocks in 2008. Personal use permits were used to harvest an estimated 1,010 Taku River sockeye salmon. A number of 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. An estimated 1,255 of the Chinook salmon harvested in 2008 sport fishery were estimated to be of Taku River origin based on coded wire tag analysis and maturity data. The July Hawk Inlet shoreline commercial purse seine pink salmon fishery in Chatham Strait was not opened in 2008. A large number of stocks, including the Taku River, contribute to this pink salmon directed fishery. A purse seine test fishery was conducted each week in week 25 through week 29 between Hawk Inlet and Point Retreat, the results indicated below average abundance of pink salmon so no fishery was prosecuted.

## Canadian Fisheries

The Taku River commercial fishery harvest was 913 large Chinook, 330 non large Chinook, 19,284 sockeye, and 3,772 coho salmon (Appendix C.4). An additional 1,399 large Chinook, 139 small Chinook, and 10 sockeye salmon, were harvested in a commercial assessment fishery which was prosecuted in place of a test fishery prior to June 15. The commercial sockeye salmon catch was below average (Appendix D.5). Fish
originating from Taku fry plants contributed an estimated 2,042 fish to the catch, comprising $10 \%$ of the sockeye salmon harvest. The catch of adult Chinook salmon in the directed sockeye and coho salmon fisheries was below average. In 2005, as a result of the new Chinook salmon agreement which allows directed Chinook salmon fishing if abundance warrants, catch accounting for small salmon was revised from a commercial weight-based designation (previously referred to "non large" which were typically fish under 2.5 kg or 5 kg , depending on where they were being marketed), to a length-based designation (small Chinook salmon i.e. less than 660 mm in length from the middle of the eye to fork of tail (MEF)). Hence, comparisons with catches from previous years should be noted accordingly. The catch of coho salmon was below average. There were 33 days of fishing, below average; this is due, in part, to greater efficiency associated with a $20 \%$ increase in the permissible length of drift gillnets, relatively low river levels, and an early end to the fishing season. The seasonal fishing effort of 245 boat-days was below average. These figures do not include the Chinook salmon assessment (test) fishery in 2007 and 2008 or the directed Chinook salmon fishing which took place in 2005 and 2006. As in recent years, both set and drift gill netting techniques were used with the majority of the catch taken in drift gillnets. The maximum allowable mesh size was 20.4 cm ( 8.0 inches) until June 17 at which point it was reduced to 15.0 cm ( 5.9 inches) in order to minimize incidental catch of Chinook salmon.

In addition to the commercial catches, one large Chinook, 215 sockeye, and 67 coho salmon were harvested in the aboriginal fishery in 2008. It is estimated that 23 of the sockeye salmon were thermally marked Tatsamenie stock.

Recreational harvest figures are not available, but are believed to be negligible for all species except Chinook salmon. For this species, an assumption has been made that on average approximately 300 large fish are harvested annually. In 2008 Chinook salmon aerial survey results were below average.

As noted, a commercial assessment (test) fishery to capture Chinook salmon for stock assessment purposes took place from April 28 through June 11 (weeks 18-24) and landed 1,399 large Chinook, 139 small Chinook, and ten sockeye salmon. A catch-and-release coho salmon test fishery took place from September 2 through October 8 (weeks 36-41) and landed 1,012 coho, 32 sockeye, and 26 chum salmon; all fish were released.

The bilateral preseason Chinook salmon outlook was based on sibling relationships and forecast a terminal run of 39,406 fish, $33 \%$ below the average run of approximately 47,284 fish (Canadian estimate). This fell short of the number required for directed fishing, specifically 42,400 fish (the escapement goal point estimate, plus test fishery allocation as well as Canadian and U.S. base level catches). Normally, a test fishery would be prosecuted to provide the data for inseason estimates of abundance. However, as in 2007, Canada was unable to issue a licence for test fishing due to the recent Canadian court case Larocque v. Canada). Consequently, the commercial fishery was opened at an assessment level and managed to the weekly guidelines developed for the test fishery (Table 6).

Management of the commercial assessment fishery differed from that of 2007 by the following. The catch schedule was adjusted slightly to provide greater emphasis on weeks two through four, in order to increase the potential for reliable run assessments early in the season. The maximum length of drift-net was increased from 30.5 metres ( 100 feet) to 36.6 metres ( 120 feet) in order to increase efficiency, which was very low in 2007. Weekly fishing periods commenced at a consistent time, specifically noon on Monday. Setnets were not permitted for the duration of the fishery.
As in 2007, the commercial assessment fishery was monitored intensively. Catches were spread out over at least two days. Weekly fishing periods varied greatly in length, ranging from six days in the first week to six hours in the last week. However, all weekly periods commenced with a 48-hour opening except in weeks six and seven (which opened on three days and three hours respectively). Extensions were made as needed. Once the target for any given day or week was achieved, fishing ceased on a voluntary basis - it was not necessary to revoke any variation order (i.e. formally close the fishery). A Canada/U.S. joint inseason run size projection was made after the third opening and every week thereafter. Run strength was insufficient to permit normal commercial fishing until the start of sockeye salmon season in week 25.

The first opening of the commercial assessment fishery commenced at noon Monday, April 28 (week 18). Fishers had just arrived on site and the river level was very low so there was a high risk of catching nets on snags. Consequently no fishing took place during this period. The fishery was extended beyond Tuesday noon in two two-day increments. Fishing started on Wednesday afternoon (day four) and the target of 100 fish was achieved by the close of day five, with three licences. The weekly catch was 105 fish.

Table 6. Canadian inseason forecasts of terminal run size, catches in stock assessment fishery, and Canadian commercial fishery catches of Taku Chinook salmon, 2008.

| Stat <br> Week | Terminal <br> Run | Canada <br> BLC $^{\text {a }}$ | Weekly <br> Guideline | Weekly <br> Catch | Cum. <br> Catch |
| :--- | ---: | ---: | ---: | ---: | ---: |
| 18 |  |  | 100 | 105 | 105 |
| 19 |  |  | 200 | 195 | 300 |
| 20 | 22,613 |  | 300 | 293 | 593 |
| 21 | 23,943 |  | 275 | 282 | 875 |
| 22 | 23,415 |  | 225 | 224 | 1,099 |
| 23 | 23,760 |  | 200 | 211 | 1,310 |
| 24 | 21,990 |  | 100 | 89 | 1,399 |
| 25 | 26,585 | 1,500 |  | 319 | 319 |
| 26 | 27,870 | 1,500 |  | 321 | 640 |
| 27 | 26,851 | 1,500 |  | 134 | 774 |
| $28-29$ |  | 1,500 |  | 139 | 913 |
| Postseason Final | 32,303 |  |  |  | $1,399 / 913$ |

In week 19 (May 04-10), the initial 48-hour period was followed by a one day extension; however, this extension was unnecessary as the target was again achieved in two days. The weekly catch was 195 fish, five fish below the weekly target, bringing the season balance to 0 . The number of licences fishing was four on day two and three on day three.

Week 20 (May 11-17) opened at noon on Monday. Day two saw a catch of 144 fish; the balance of the weekly total of 293 fish (seven fish short of target) was obtained by 11 p.m. the following day. There were four licences fishing in week three.

Week 21 (May 18-24), starting Monday, was again 48 hours. By 8 p.m. on Monday, 142 fish had been caught; fishing ceased until noon the following day. The cumulative catch at the close of the second day of fishing was about 25 short of the weekly target, so a four-hour extension was posted starting noon Wednesday. A total of 282 fish were landed - the weekly target of 275 fish was achieved and the shortfall from the previous week eliminated. There were five licences fishing this week.

Week 22 (May 25-31), starting Monday, was extended beyond 48 hours in two 12-hour increments and landed at total of 224 fish, within one fish of the weekly target of 225 fish. The number of licences fishing this week was six.

Week 23 (June 01-07) opened at noon on Monday for three days. The first 4.5 hours of fishing saw a catch of 142 fish, and fishing ceased until noon the following day; 69 fish were caught between noon and 2 p.m. giving a weekly total of 211 fish, eleven fish greater than the weekly target, bringing the season balance to 10 fish. There were six licences fishing again this week.

It was anticipated that the favourable fishing conditions would continue into week 24 (June 08-14), the final week of the assessment fishery, and there were three more licences on the river preparing for the sockeye salmon fishery. Due to these factors, as well as a weekly target of only 100 fish (effectively only 90 fish due to overage in the previous week), the initial opening was posted for only three hours starting at noon on Monday. A total of 41 fish were caught and the fishery was opened for another three hours starting at noon on the following day. This second period of fishing landed 48 fish, for a weekly total of 89 fish. This brought the assessment fishery total to 1,399 fish, within one fish of the target of 1,400 fish.

A total of eight inseason run size projections were made during the Chinook and sockeye salmon fishing seasons (Table 8). The first projection was made on Thursday May 15, after the week 20 opening. Based on a total of 185 tags applied, 593 fish inspected for tags and 26 tags recovered, it was estimated that 4,047 fish had passed the international border. Adding the estimated 155 fish which had been harvested in the U.S sport fishery through week 19, this was expanded using historical run timing at Canyon Island to give a terminal run size projection of 22,613 fish. This, along with all subsequent run projections, was well below both the preseason forecast of 39,406 fish, and the trigger for directed commercial fishing in Canada, 42,400 fish. Projections were quite consistent for the duration of the assessment fishery, and increased only slightly during the directed sockeye salmon fishery. The final joint inseason estimate of terminal run size in week 27 was 26,851 fish. This was based on an inriver run estimate of 23,623 fish coupled with U.S. harvest of 1,930 fish ( 1,180 sport and 750 gillnet) and expanded using an average timing of fish passing Canyon Island through July 1 ( $95 \%$ ). The projected spawning
escapement estimate as of week 27 was approximately 24,000 fish, which is below the target of 36,000 spawners.

The harvest totals in the commercial assessment, directed sockeye salmon and aboriginal fisheries are $1,399,913$, and one, respectively. Assuming that 270 large fish were retained in the recreational fishery, the harvest excluding the assessment fishery totaled 1,184 , well within the base level catch allocation of 1,500 fish.

Week 25 (June 15-21) was the start of the sockeye salmon season. As in past years, for the sockeye and coho salmon fisheries, guideline harvests were developed each week to guide management decisions so that: a) the catch was consistent with conservation and Treaty goals; and b) management was responsive to changes in projections of abundance, i.e. abundance-based. The guidelines were based on current inseason forecasts of the Canadian TAC (based on mark-recapture estimates) apportioned by historical run timing.

The Canadian preseason forecast for the total run of wild sockeye salmon was 181,038 fish. This was a drainage-wide stock recruitment-based forecast; as in 2007, a siblingbased forecast was not produced as scale pattern analysis to determine the contribution of Taku fish to U.S. harvests the previous year was still in progress. The stock-recruitmentbased forecast was $26 \%$ below the average run size of 245,000 sockeye salmon (Canadian estimate). These figures assume a U.S. harvest of $5 \%$ of the total run in marine approach waters (i.e. outside District 111); the terminal run forecast was therefore approximately 172,000 fish.

As noted, the directed sockeye salmon commercial fishery commenced in week 25 , for a scheduled opening of two days. The increase in maximum length of drift-net noted above for the assessment fishery i.e. from 30.5 metres ( 100 feet) to 36.6 metres ( 120 feet) was also in effect for this fishery and the coho salmon fishery which followed. This increase in net length did not apply to set nets. In order to limit incidental harvest of Chinook salmon, mesh size was restricted to sockeye salmon gear only, i.e. it was reduced from 20.4 cm ( 8.0 inches) to 15 cm ( 5.9 inches). This restriction was in place for the remainder of the season.

Based on the preseason forecast, the weekly guideline for week was 1,458 sockeye salmon. At the time of posting, Canyon Island fish wheel counts were roughly twice the average, despite water levels that were only about one half of average. A total of 1,443 sockeye salmon were caught this week - the CPUE of 85 fish per boat day (fbd) was the highest on record for this week. The fact that river levels were well below average throughout the two-day opening and the increased maximum allowable net length likely contributed to this. A total of 319 Chinook salmon were caught this week.

Week 26 (June 22-28) was opened on two days. The cumulative guideline harvest through this week based on the preseason forecast was 2,981 pieces, with a balance of 1,528 fish. The CPUE was 90 fbd on day 1, above the weekly average of 69 fbd . Canyon Island fish wheel counts were well above average. The first inseason run projection of the season indicated a run of approximately 450,000 , over twice the preseason forecast.

Given the potential for an inaccurate projection this early in the season, it was assumed that run strength was average and the fishery was extended by one day. The catch of sockeye salmon for the week was 3,165 , for a cumulative of, 4,618 ; this was 1,637 in the red relative to the guideline based on the preseason forecast, but on target assuming an average run. The weekly catch of Chinook salmon was 321 fish.

The week 27 (June 29-July 05) fishery opened for three days. Fishwheel catches were about average, as were catches for the previous week in Taku Inlet. However, inriver the high catch rates experienced to date were short-lived; CPUE for both days one and two were only about 50 fbd , compared to a weekly average of 89 . This was despite river levels that were well below average and dropping. An inseason estimate made after day two projected a run of only 112,000 fish, with a guideline harvest of 3,041 fish. Applying a one-week late timing increased the projection to only 152,000 fish, with a cumulative guideline harvest of 4,653 fish. The weekly catch of sockeye salmon was only 1,036 fish, bringing the cumulative to 5,654 . The weekly Chinook salmon catch was 134 fish.

Week 28 (July 06-12) was opened on two days, and extended one day, factoring in the observation that river levels had increased substantially during the later part of week 27 and continued to increase early this week, to about 9 feet on the gauge in the Canyon; this was about two feet above average. Again CPUE was well below average, specifically 28 fbd compared to a weekly average of 76 . Weekly catches were 426 sockeye and 65 Chinook salmon.

Week 29 (July 13-19) opened on two days. Due in part to the poor fishing during the previous week, some of the more productive fishermen were not on site, and, for economy, set netting was favoured over drift-netting. As a result of the low effort, the fishery was extended by two days, catching an additional 418 sockeye salmon. CPUE was again limited but increased somewhat on day four, potentially heralding the beginning of the Tatsamenie run. Fish wheel catches were below average for the period. The total sockeye salmon catch for the week was 788 fish, for a cumulative of 6,868 fish. An assessment made after day four projected a run of 140,000 based on average timing, again below the preseason forecast. The cumulative guideline harvest based on this projection was 5,845 fish.

Week 30 (July 20-26) opened on three days. Although indications were that the catch to date was about 1,000 fish in excess of the guideline, CPUE in Taku Inlet had improved from about $25 \%$ of average to twice average. Inriver CPUE was up considerably from week 29, although still slightly below average ( 90 versus 97 fbd ). It remained consistent over the three days, despite rapidly falling river levels. A projection made after day three suggested a run of approximately 149,000 fish, with a cumulative guideline harvest of 8,182 fish, leaving a balance of 1,164 for the remainder of the week. The fishery was not extended and the catch for the week was 2,418 sockeye salmon.

Table 7. Canadian inseason forecasts of total run size, total allowable catch (TAC), and spawning escapement of Taku sockeye salmon, 2008.

| Stat. <br> Week | Total Run | TAC | Projected <br> Escapement | Canadian <br> TAC | Inseason <br> guideline | Actual <br> Catch |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| 25 | 181,038 | 106,038 | 75,000 | 19,087 | 1,458 | 1,453 |
| 26 | 245,000 | 170,000 | 75,000 | 30,600 | 4,779 | 4,618 |
| 27 | 236,000 | 161,000 |  | 28,980 | 7,611 | 5,654 |
| 28 | 132,962 | 57,462 |  | 10,343 | 3,802 | 5,658 |
| 29 | 157,020 | 81,520 |  | 14,674 | 7,357 | 5,580 |
| 30 | 148,803 | 73,803 | 71,526 | 13,284 | 8,182 | 6,210 |
| 31 | 139,746 | 64,746 |  | 11,654 | 8,647 | 8,628 |
| 32 | 172,679 | 97,679 | 70,026 | 17,582 | 14,978 | 13,322 |
| 33 | 163,958 | 88,958 | 59,090 | 16,012 | 14,670 | 16,151 |
| 34 | 185,496 | 110,496 | 80,997 | 19,889 | 19,028 | 17,796 |

Week 31 (July 27-Aufust 02) was opened on three days. The cumulative guideline harvest based on a run projection of 140,000 made at the close of the week 30 was only 19 fish; however there were indications of good run strength from Canyon Island and Taku Inlet. CPUE was 102 fbd on day one and 121 on day two, compared to a weekly average of 98 fbd . An assessment made after day two projected a run of 162,000 and a guideline balance of 768 fish; the fishery was not extended; day 3 saw a dramatic increase in CPUE, specifically 246 fbd, with a catch of 2,463 . The final catch for the week was 4,694 fish.

The run projection made after day three of the week 31 fishery was up about 10,000 fish from the estimate made on day two, and identified a guideline harvest of 1,656 fish for the opening. In addition, there were indications that there were substantial numbers of thermally marked fish present. Consequently, week 32 (August 03-09) was posted for three days. Despite similar fishing conditions, CPUE was down to 79 fbd, increasing to 130 by the end of the opening; average CPUE for the week is 105 fbd . An assessment made after day one projected a run of 162,000 and a spawning escapement of only 61,000 , below the lower end of the guideline harvest range of 71,000 to 80,000 fish. The fishery was again held to its initial posting, and the catch of sockeye salmon was 2,829 fish. Water levels rose substantially over the latter part of the week.

Week 33 (August 10-16) was posted for two days. With strong fish wheel counts on day one, the fishery was extended by one day. CPUE for the week was 61 fbd , compared to an average of 73 fbd , and yielded a catch of 1,645 fish. Fortunately, the run projection had increased to 185,000 fish by closing; this translated to a spawning escapement projection of 81,000 .

This run assessment indicated a guideline harvest of 1,232 sockeye salmon for week 34 (August 17-23), which marked the beginning of coho salmon season. Based on this guideline and favourable coho salmon indicators, an opening was posted for three days. However, a Tulsequah jokulhaup started just after opening. Tenuous fishing conditions ensued and to compensate the fishery was extended by two days and then one additional day. The catch for week 34 totaled 800 sockeye and 1,117 coho salmon.

Week 34 marked the end of commercial fishing for the season as coho salmon prices were insufficient to sustain interest. The landing stations closed and licence holders vacated the fishery.

The final in season mark-recapture estimate for sockeye salmon was produced after day 2 in week 34 , and indicated that 94,906 fish had crossed the international border to date. Based on average run timing ( $93 \%$ past the border) and factoring in U.S harvests this projected to a terminal run of 183,400 fish; this was close to the preseason forecast of 172,000 fish. The guideline harvest based on the projected run was 18,664 ; actual harvest to date ( 19,254 plus 201 in the aboriginal fishery) was within $4 \%$ of this. Note that this guideline assumed that the entire run was comprised of wild fish. Details on the contribution of thermally marked hatchery fish to the run are presented in the run reconstruction section. The projected spawning escapement at this time was approximately 81,000 sockeye salmon, just above the escapement goal range of 71,000 to 80,000 fish. The commercial fishery was then opened from week 36 (August 31September 06) to late in week 40 (September 28-October 04). However, week 36 proved to be the last week of substantial commercial activity, with 1,062 coho and 578 sockeye salmon landed; landings after this totaled six fish.

The cumulative commercial fishery sockeye salmon CPUE for the season was 750 fbd ; average. The increase in maximum drift-net length from 30.5 metres ( 100 feet) to 36.6 metres ( 120 feet), coupled with below average river level, likely had a substantial influence on catch rates. CPUE was well above average for weeks 25, 26 and 31; well below average for weeks $27,28,29$, and 34 (during which the Tulsequah jokulhaup occurred); and, it was close to average for weeks 30, 32 and 33. As is typical, peak CPUE was observed in week 31.

The preseason outlook for Taku River coho salmon in 2008 was for a below average run. Based on catch rates in the Taku River CWT program, an estimated 1.3 million coho salmon smolt emigrated during the spring of 2007, with survivals to return as adults in 2008. Using a marine survival rate similar to the $97-07$ average ( $8.7 \%$ ), a total run of 111,500 was expected in 2008, well below the average run size of 184,400 fish. Using average U.S. exploitation rates (39\%), this translated to a border escapement of approximately 68,400 fish. However, the 2007 outmigration experienced $3.7 \%$ survival, the lowest on record with $59 \%$ exploitation, one of the highest on record.

It had been anticipated that a test fishery would be implemented in order to provide coho salmon run assessment in the absence of a commercial fishery. However, due to unforeseen circumstances it was not possible to conclude the arrangements and attempts to make alternate arrangements were not successful. Consequently, a catch and release fishery was initiated by DFO staff on September 02). This continued through October 08, catching 1,012 coho, and 26 sockeye salmon; all fish were released.

Accordingly, as per PST provisions, the Canadian allowable catch after week 33 was 10,000 salmon. Based on inseason data, the actual treaty catch of coho salmon was 1,184 fish. This includes the commercial harvest taken after week 33 ( 1,117 fish) plus the
aboriginal harvest (67 fish); it is assumed that the recreational harvest of coho salmon was zero. The cumulative commercial coho salmon CPUE through week 34 was 136 fbd , $13 \%$ above the average of 120 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. mark-recapture program. Counting weirs operated by DFO at Little Trapper and Tatsamenie lakes and by the TRTFN at Kuthai and King Salmon lakes provide information on the distribution and abundance of discrete spawning stocks within the watershed.

The sockeye salmon mark-recapture program has been operated annually since 1984 to estimate the above-border run size (i.e., border escapement); spawning escapement is then estimated by subtracting the inriver catch. The estimates of above border run and spawning escapement in 2008 are 87,568 and 68,059 sockeye salmon, respectively. The spawning escapement was below average (Appendix D.9), and was below the lower end of the interim escapement goal range of 71,000 to 80,000 sockeye salmon. The Canyon Island fish wheel catch of 3,736 sockeye salmon was below average.

The sockeye salmon count through the Kuthai Lake weir was 1,547 fish; below average and $20 \%$ of the primary brood year escapement of 7,769 fish (Appendix D.10). It does not appear that water levels in the Silver Salmon River prevented fish from reaching the lake, as was apparently the case in 2007. The fish were about nine days late arriving at the weir and the run mid-point (July 31) was about four days later than average.

A weir was operated at King Salmon Lake for the sixth consecutive season. As in 2007, difficulties were encountered in passing fish, in part due to low flows and the weir configuration. A total of 888 fish were enumerated. Only five fish passed through the weir in 2007, although several hundred fish were observed in the lake after it had been dismantled. Run timing has been variable to date; in 2008, the first sockeye salmon passed through the weir on July 18, and the mid-point was July 30.

The Little Trapper Lake weir count of 3,831 was well below average and well below the primary brood year escapement of 31,227 fish (Appendix D.10). These escapements were lowest, since the weir program began in 1983. The run was about 11 days late arriving, however, the mid-point was only two days later than average (August 10 versus August 8). Approximately 1,040 fish were held for broodstock.

The Tatsamenie Lake weir count of 8,976 fish was and was well above the primary brood year count of 4,515 fish. This met the management target of at least 8,000 sockeye salmon into Tatsamenie Lake, which was established in order to meet the broodstock collection target of 5 million eggs, and to increase escapement in general. In contrast to Kuthai and Little Trapper runs, key points of the migration were a few days early in 2008, with the fish arriving on August 8 and the mid-point on August 30. On average,
these dates are August 10 and September 2, respectively. Approximately 2,800 fish were held for broodstock.

## Chinook Salmon

Spawning escapement of Chinook salmon in the Canadian portion of the Taku drainage was estimated from the joint Canada/U.S. mark-recapture program. Tag application effort took place from late April through early October with the last tag applied in July. Tag recovery effort consisted of the commercial assessment (test) fishery from April 28 through June 15, the sockeye salmon and coho salmon commercial fisheries (weeks 25 34), and spawning ground sampling in August and September on the Nakina, Tatsatua, Kowatua, Nahlin, Dudidontu, Tseta, Yeth, King Salmon and Hackett Rivers. As was the case in 2007, the spawning ground sampling was more widespread than usual as a result of efforts to obtain baseline genetic samples. Estimates of above border inriver run and spawning escapement are 29,966 and 27,383 large Chinook salmon, respectively. This spawning escapement was well below the target of 36,000 fish (the escapement point goal, $\mathrm{N}_{\mathrm{MSY}}$ ), and was below the lower end of the range of 30,000 to 55,000 fish, and below average escapement (Appendix D.11).

Aerial surveys of large Chinook salmon to the six escapement index areas annually surveyed by ADF\&G were: Nakina 1,437 fish (below average), Kowatua 690 fish (average), Tatsamenie 1,083 fish (above average), Dudidontu, 480 fish (below average), Nahlin 1,121 fish (above average), and Tseta Creek 497 (well above average). Survey conditions were rated normal on all indices except for the Kowatua index, which was rated as excellent. The total of 5,308 large Chinook salmon observed was average. Surveys with poor viewing conditions are excluded from all averages.

Carcass weirs were operated on the Nakina and Tatsatua rivers in order to obtain tag and age-length-sex data. Totals of 225 and 481 large Chinook salmon were encountered, below average. Water levels were not atypical at either site in 2008.

## Coho Salmon

Spawning escapement of coho salmon in the Canadian portion of the Taku drainage was estimated from the joint Canada/U.S. mark-recapture program. Tag application and recovery occurred through the first week of October (both dates fall in week 40). The tag recovery effort consisted of the commercial fishery through week 34 followed by a limited catch-and-release set and drift gillnet fishery through the remainder of the season. The above border run and spawning escapement estimates are 99,199 fish and 95,360 fish respectively (Appendix D.13). The spawning escapement was below average, but approximately 2.3 times the upper end of the interim escapement goal range (27,500 to 35,000 fish).

## Pink Salmon

There is no program to estimate the escapement of Taku River pink salmon; however, the Canyon Island fish wheels provide an index of annual variation in border escapement. A
total of 4,704 pink salmon was captured the fish wheels in 2008 (Appendix D.15); this was below average.

## Chum Salmon

As with pink salmon, the Canyon Island fish wheels are used to determine annual variations in border escapement. A total of 350 chum salmon was captured in the wheels in 2008, which was above average (Appendix D.15). The Taku River fall chum salmon run has been depressed since 1988. It is unlikely that the spawning escapement goal of 50,000 to 80,000 fish has been achieved in recent years.

## Sockeye Salmon Run Reconstruction

An estimated 63,002 wild Taku sockeye salmon were caught in the U.S. District 111 fishery. An additional 921 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 sockeye salmon is 63,923 fish (Table 4).

In the Canadian commercial fishery catch estimate of wild Taku sockeye salmon is 17,242 fish. An estimated 192 wild sockeye salmon were taken in the Canadian aboriginal fishery. Therefore, the estimated Canadian treaty harvest of wild Taku sockeye salmon is 17,434 fish (Table 4). An additional ten wild sockeye salmon were taken in test fisheries.

The contribution of Taku sockeye salmon from the fry planting program was estimated based on expansion of otolith-marked sockeye salmon recovered in the sampled catch. Estimates are 11,680 to the District 111 fishery, 89 to the inriver personal use fishery, 2,042 to the Canadian commercial fishery, and 23 to the aboriginal fishery (Table 4).

The estimate of the above-border run size of sockeye salmon, based on the joint Canada/U.S. mark-recapture program, is 87,568 fish. Deducting the Canadian inriver catch of 19,509 fish (in commercial, aboriginal and test fisheries) from the above-border run estimate results in an estimated escapement of 68,059 sockeye salmon. The total run of Taku sockeye salmon is estimated at 163,260 fish. Based on the escapement goal of 75,000 fish, the TAC was 88,260 sockeye salmon, of which the U.S. harvested $76 \%$ and Canada harvested $22 \%$ (Table 4). These percentages do not include test fishery catches.

The escapement of 4,167 Taku sockeye salmon originating from the fry planting program was estimated by sampling broodstock otoliths at Tatsamenie Lake and applying the mark rate $(182 / 392)$ to the weir count of 8,976 fish. The total run Taku sockeye salmon from the fry planting program was estimated at 18,001 fish (Table 4).


#### Abstract

ALSEK RIVER Alsek River salmon stocks contribute to the U.S. commercial gillnet fisheries located in Dry Bay, at the mouth of the Alsek River (Figure 3). Unknown quantities of Alsek River origin fish are also 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 catch sharing of Alsek River salmon stocks between Canada and the U.S. has not yet been specified, Annex IV does call for the development and implementation of cooperative abundance-based management plans and programs for Alsek River Chinook, sockeye and coho salmon. Interim escapement goal ranges for Alsek River sockeye and coho salmon were initially set by the TTC at 33,000 to 58,000 sockeye, and 5,400 to 25,000 coho salmon. The principle escapement-monitoring tool for Chinook, sockeye, and coho 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. To make the management objectives of Chinook and sockeye salmon better defined in terms of Klukshu stocks, revised goals, expressed in terms of Klukshu stocks only, were established in 1999 and adopted again in 2008. Markrecapture programs to estimate the total inriver abundance and the fraction of the escapement contributed by the Klukshu stocks were in operation since 1997 for Chinook salmon and since 2000 for sockeye salmon. These however were discontinued in 2005.

The initiative to establish a specific Klukshu Chinook salmon spawning goal began in 1991 when the TTC set an interim spawning objective of 4,700 Klukshu Chinook salmon. This goal was based more on manager's intuition than on science. From 1995 through 1997, the TTC reviewed this escapement level and concluded that goal of 4,700 Chinook salmon was not supported by the data. A new goal range of 1,100 to 2,300 fish was proposed based on joint analyses of stock-recruitment data. The Parties conducted independent internal reviews of these analyses. Although there was not unanimous support for the proposal, there was agreement on establishing a minimum goal consistent with the lower end of the proposed range. As a result, Canadian and U.S. managers agreed to a minimum spawning escapement goal of 1,100 Chinook salmon for the Klukshu system for 2000 and this was used again in the 2008 season.


Figure 3. The Alsek River and principal U.S. and Canadian fishing areas.
The stock-recruitment analysis of Klukshu sockeye salmon data was completed in 2000 and has undergone internal peer review. The new escapement goal range for Klukshu River sockeye salmon is 7,500 to 15,000 spawners per year.

## Preseason Forecasts

The overall sockeye salmon run to the Klukshu River in 2008 was expected to be slightly above average in strength. Principal contributing brood years to the 2008 run were expected to be 2003 (Klukshu escapement of 32,120 fish) and 2004 (Klukshu escapement of 13,721 fish); average Klukshu escapement was 12,740 fish. The estimated production of Klukshu sockeye salmon for 2008 was 20,400 fish. Based on historical stock-
recruitment analysis, the range of Klukshu escapements that appear most likely to produce maximum sustained yields is 7,500 to 15,000 sockeye salmon.

The 2008 overall Alsek River sockeye salmon run was expected to be approximately 75,400 fish. This estimate was based on: a predicted run of 20,400 Klukshu sockeye salmon derived from the average historical Klukshu stock-recruitment data and an assumed Klukshu contribution of $27 \%$ (based on the 2001-2003 sockeye salmon radio tagging study). A run size of this magnitude is slightly above average run size estimate of approximately 67,300 fish (based on the Klukshu weir count expanded by $1 / 0.27$ to account for other in-river escapement and an assumed U.S. harvest rate of $20 \%$ ).

The contributing Klukshu early sockeye salmon run counts in 2003 and 2004 were 3,084 and 3,464 , respectively (Appendix C.7). The principal brood year (2003) was near the optimum level of 2,500 sockeye salmon spawners as determined through separate stockrecruitment analyses by DFO of the early run. For 2008, the early run was expected to be above average.

The Klukshu Chinook salmon escapements in 2002 and 2003 were 2,134 and 1,661 fish, respectively. The 2002 and 2003 escapements were near average $(1,500)$ and near the upper end of the optimum escapement range of 1,100 to 2,300 Chinook salmon estimated from current stock-recruitment analysis. As a result, the preliminary outlook was for an above average run. The 2008 overall Alsek River Chinook salmon run was expected to be approximately 16,000 fish. This estimate was based on: a predicted run of 2,900 Klukshu Chinook salmon derived from the historical Klukshu stock-recruitment data; and an assumed Klukshu contribution to the total run of approximately $18 \%$ (expansion factor of 5.5).

The coho salmon escapements observed at the Klukshu River in 2004 ( 750 coho salmon) and 2005 ( 663 coho salmon) suggests the escapement in 2008 would be below the average (Appendix C.7).

## U.S. Fisheries

Although harvest sharing arrangements of Alsek salmon stocks between Canada and the U.S. have not been specified, Annex IV of the Pacific Salmon Treaty does call for a cooperative attempt to rebuild depressed Chinook and early-run sockeye salmon stocks. Preseason expectations were for slightly above average runs of sockeye and Chinook salmon. These expectations were based on parent-year escapements to the Klukshu River. The Alsek River commercial fishery opened on the first Sunday in June, week 23 (June 1). The initial opening remained at 24 hours. Sockeye salmon CPUE remained very poor throughout the season, and fishing times remained at one day for the first eight weeks of the season. The Alsek was closed to commercial fishing for weeks 31 and 32 as a conservation measure, and when it reopened during week 33 fishing time remained at one day. Coho salmon are targeted from mid-August on and effort becomes minimal. Fishing times remained at three days per week for the entire coho salmon season. The Alsek

River remained open through the second week in October, and the river was not fished during the last week of the season.

The 2008 Dry Bay commercial set-gillnet fishery harvested 128 Chinook, 2,815 sockeye, and 2,668 coho salmon (Table 12). No pink and 2 chum salmon were harvested. A test fishery was conducted on the Alsek River for Chinook salmon in 2008, and that fishery produced another 465 Chinook and 55 sockeye salmon, for a total harvest of 593 Chinook and 2,870 sockeye salmon. The Chinook salmon harvest was above average, the sockeye salmon harvest was not just below average, but the single-season lowest catch on record for the Alsek. The coho salmon harvest was slightly below average. Very little effort was recorded during the coho salmon season due to market conditions, although the coho salmon harvest was the highest recorded in the past five years. The number of fishing days was 33 . The total effort expended in the fishery was 171 boat-days, which was below average.

## Canadian Fisheries

Due to the elimination of the harvest monitor position in 2005, catches from the food fishery are largely unknown. The only harvest information for 2008 was the fish taken from the Klukshu River weir which was 0 Chinook, 0 sockeye, and 26 coho salmon. As a result of the poor runs of Chinook and sockeye salmon, discussions with DFO and the CAFN were held and it was decided to close the food fishery on July $23^{\text {rd }}$ until further notice. On August $25^{\text {th }}$, after a request from CAFN to DFO was made, an exception was made to allow elders only to fish for sockeye salmon in Village Creek. Once the coho salmon had started to return to the Klukshu River, the food fishery was opened to coho salmon fishing only on the $26^{\text {th }}$ of September.

Catch estimates for the Tatshenshini recreational fishery were well below average for Chinook salmon, with an estimated 7 fish retained, and sockeye salmon had no reported harvest, and no catches were recorded for coho salmon. On July $19^{\text {th }}$, the daily and possession limits for Chinook salmon were reduced to zero for the remainder of the year due to the projected lowest run of Chinook salmon since the weir program began in 1976. By July $22^{\text {nd }}$, it was decided to implement a full angling closure in the Yukon portion of the Tatshenshini River to protect the weak run of Chinook and early run sockeye salmon and on the $23^{\text {rd }}$ of July, a salmon angling closure was implemented in the British Columbia sections of the Tatshenshini River for the remainder of the season. Retention of sockeye salmon in the Tatshenshini River was not permitted for the 2008 season due to the record poor runs.

Management of salmon in the Yukon is a shared responsibility between DFO and the Yukon Salmon Committee (YSC). The YSC was established in 1995 pursuant to the Comprehensive Land Claim Umbrella Final Agreement between the Government of Canada, the Council for Yukon Indians and the Government of the Yukon. The Committee is a public board consisting of ten members, $70 \%$ of which are appointed by Yukon First Nations. Two CAFN members sit on the YSC. 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.

The 2008 Alsek-Tatshenshini management plan, adopted by CAFN, YSC, and DFO, was based on the objectives described in the Harvest Regulations \& Management Objectives section above. For Chinook and early run sockeye salmon management, the status of the Klukshu weir counts was 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 below.

The center of aboriginal fishing activity in the Alsek River drainage occurs at the CAFN village of Klukshu, on the Haines road, about 60 km south of Haines Junction. Salmon are harvested by means of gaff, small gillnets, sport rods, and traditional fish traps as the fish migrate up the Klukshu River and into Klukshu Lake. The fishing plan for the aboriginal fishery in the Klukshu River for the period prior to August 15 allowed fishing by means of fish traps for two days per week. After August 15, it was planned that the traps would be fished three days per 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 Goat Creek, Stanley Creek, and the Parton River for elders only.

The majority of the recreational fishing effort on this drainage occurs on 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 upstream 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 <1,500 Chinook and < 10,600 sockeye salmon (early and late runs combined).

A mandatory Yukon Salmon Conservation Catch Card (YSCCC), introduced by the YSC in 1999, was required by all recreational salmon fishers in 2008. 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 2008 are shown in Table 8.

## Sockeye Salmon

The weir count and escapement estimates of Klukshu River sockeye salmon were both 2,741fish in 2008 (Table 8, Appendices C. 3 and C.7). The count of 43 early run fish (count through August 15) and the count of 2,698 late run fish were both well below average. The total escapement of 2,741 fish was the lowest on record, and was well below the lower end of the recommended escapement goal range of 7,500 to 15,000 fish. The sockeye salmon escapement to Village Creek was not estimated in 2008 due to a major malfunction in the counter.

## 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 and escapement counts in 2008 were both 466 (Table 8), and the lowest on record. The 2008 escapement was well below the revised interim escapement goal range of 1,100 to 2,300 Klukshu Chinook salmon.

Coho Salmon
The Klukshu weir count and escapement of 4,275 and 4,249 fish; above average (Table 8). The weir was removed prior to the completion of the coho salmon run and does not include fish that migrate after mid-October.

Table 8. Catch and Klukshu index escapement data for Alsek River sockeye, Chinook, and coho salmon for 2008.

|  | Sockeye | Chinook | Coho |
| :--- | ---: | ---: | ---: |
| Escapement Index a |  |  |  |
| Klukshu Weir Count | 2,741 | 466 | 4,275 |
| Klukshu Escapement | 2,741 | 466 | 4,249 |
|  |  |  |  |
| Harvest b |  |  |  |
| U.S. Commercial | 2,815 | 128 | 2,668 |
| U.S. Subsistence | 117 | 28 | 26 |
| U.S. Test | 55 | 465 | 0 |
| Canadian Sport | 0 | 7 | 0 |
| Canadian Aboriginal | 0 | 0 | 0 |
| Total | 2,987 | 628 | 2,694 |

${ }^{\text {a }}$ 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 catches other than the listed fisheries.

## ENHANCEMENT ACTIVITIES

## Egg Collection

In 2008, sockeye salmon eggs were collected at Tahltan Lake on the Stikine River for the twentieth year, and in the Tatsamenie Lake system on the Taku River, for the nineteenth year of this program.

## Tahltan Lake

The egg collection was contracted to Arc Environmental Ltd. for the thirteenth consecutive year. The egg-take goal at Tahltan Lake is 6.0 million eggs; due to low escapement, 3.2 million eggs were collected. Fish were captured with a beach seine at the major spawning site as has been done in most years. Brood year 2008 egg takes were initiated on September 7th at Tahltan Lake and were completed on September $5^{\text {th }}$; there were 10 egg collections for 3.2 million eggs. The receipt of one lot of Tahltan eggs was delayed by 2 days, and two others by 1 day, due to unfavorable weather conditions. Eggs were collected from 1,157 females and a like number of males.

## Tatsamenie Lake

B. Mercer and Associates Ltd was contracted to collect eggs. Tatsamenie Lake broodstock was captured for the fourteenth year at an adult enumeration weir located at the outlet of Tatsamenie Lake. Egg takes were initiated September 22nd at Tatsamenie Lake. An estimated $5,000,000$ eggs were collected from 1,183 females and milt was collected from a like number of males. Tatsamenie Lake egg takes were completed on October 23rd with an estimated 5.0 million eggs. The receipt of one lot of Tatsamenie
eggs was delayed by 2 days, and three others by 1 day, also due to unfavorable weather conditions.

## Trapper Lake

Due to lowered adult escapement into Little Trapper Lake, only 100,000 eggs were collected from this stock, those eggs were planted in Tunjony Creek, a tributary of Big Trapper Lake. This project was operated with Northern Fund monies but will be reported in TBR reports. Evaluation of egg plants will take place in the spring using fyke nets and hydraulic sampling.

## Incubation, Thermal Marking, and Fry Plants (2004 Brood Year)

The egg incubation and thermal-marking program at Snettisham Hatchery went smoothly in year 2007/2008. Snettisham hatchery is operated by DIPAC (Douglas Island Pink and Chum, Inc.), a private aquaculture organization in Juneau. A co-operative agreement between ADF\&G and DIPAC provides for Snettisham hatchery to serve the needs of the joint TBR enhancement projects.

Incubation of 2008 brood eggs took place at Snettisham Hatchery and the resultant fry were transported to the appropriate systems from May 28 to June 16, 2006. There were 5 incubators lost to IHNV this year; 3 from Tatsamenie and 2 from Trapper. This was greater than normal but losses over the life of the program are consistent with the Alaskan experience.

## Tahltan Lake

A total of 1.54 million fry from the 2007 Tahltan sockeye salmon egg take was planted back into Tahltan Lake in 2008. Survival from green-egg to outplanted fry was 70\%. Fry outplanting took place from May 31 to June 4.

## Tuya Lake

There were 1.5 million fry planted in Tuya Lake from June 19 to June 20. These fish were from eggs collected at Tahltan Lake in the fall of 2007. Survival from green-egg to outplanted fry was $83 \%$.

## Tatsamenie Lake

A total of 2.1 million fry from the 2007 egg-take was released into Tatsamenie Lake in 2008. There were three treatment groups: one group was released at the North end, one group mid lake, and one group held for extended rearing; outplanting took place from May 31 to June 13. Survival from green-egg to outplanted-fry was 58 $\%$.

The strategy behind releasing at the different locations is to put some fry in an area with little natural production.

## Outplant Evaluation Surveys

## Acoustic, Trawl, Beach seine and Limnological Sampling

Standard limnological surveys were conducted at Tatsamenie, Tahltan, Trapper and Tuya Lakes. Hydroacoustic surveys with a newly purchased Bio-Sonics unit were conducted at Trapper Lake.

## Thermal Mark Laboratories

## ADF\&G Thermal Mark Laboratory

During the 2008 season the ADFG thermal mark lab processed 14,037 sockeye otoliths collected by ADFG and DFO staff as part of the U.S./Canada fry-planting evaluation program. These collections came from commercial and test fisheries in U.S. waters and in Canadian fisheries on the Taku and Stikine Rivers over a 14 -week period. In addition, several escapement samples were examined. The laboratory provided estimates on hatchery contributions for almost 90 distinct sampling collections. Estimates of the percentage of hatchery fish contributed to commercial fishery catches were provided to ADF\&G and DFO fishery managers 24 to 48 hours after samples arrived at the lab.

Adult sockeye salmon otoliths were processed inseason by the ADFG otolith lab to estimate the weekly contribution of fish from US/Canada TBR fry planting programs to the District 106, 108, and 111 gillnet fisheries and to Canadian commercial fisheries in the Stikine and Taku Rivers. Contributions of thermally marked fish were an estimated 25,984 Stikine River fish to District 106 and 108 and subsistence and 11,769 Taku River fish to District 111 commercial and personal use fisheries. Estimated contributions of thermally marked fish to Canadian fisheries included 21,514 planted fish to Stikine River fisheries and 2,065 planted fish to the Taku River fisheries.

## Canadian Thermal Mark Laboratory

An estimated 532,700 smolt were thermally marked from the $1,402,995$ fish outmigration through the Tahltan smolt weir in 2008. Samples from the returning adults indicated that 3,920 of the 8,052 Tahltan Lake spawners were thermally marked. For the Taku, an estimated 4,167 thermally marked fish contributed to the Tatsamenie weir count of 8,976 sockeye salmon.

## APPENDICES

## Standards

Large Chinook salmon are MEF length $\geq 660$
Unless otherwise stated Chinook salmon are large
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.

Appendix A. 1. Weekly salmon catch in the Alaskan District 106 commercial drift gillnet fisheries, 2008.

| Week | Start <br> Date | Catch |  |  |  |  |  | Effort |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Chinook |  | Sockeye | Coho | Pink | Chum | Permits | Days | Permit <br> Days |
|  |  | Large | non large |  |  |  |  |  |  |  |
| 24 | 8-Jun | 179 | 8 | 83 | 94 | 0 | 22 | 13 | 2.0 | 26 |
| 25 | 15-Jun | 177 | 31 | 1,242 | 2,012 | 18 | 438 | 24 | 2.0 | 48 |
| 26 | 22-Jun | 175 | 54 | 3,561 | 6,538 | 1,213 | 3,243 | 45 | 4.0 | 180 |
| 27 | 29-Jun | 318 | 132 | 7,244 | 10,582 | 1,918 | 11,639 | 65 | 4.0 | 260 |
| 28 | 6-Jul | 61 | 51 | 5,219 | 5,887 | 2,429 | 11,622 | 47 | 3.0 | 141 |
| 29 | 13-Jul | 58 | 71 | 6,215 | 4,664 | 4,032 | 18,449 | 50 | 2.0 | 100 |
| 30 | 20-Jul | 39 | 59 | 2,980 | 2,289 | 4,162 | 12,680 | 39 | 2.0 | 78 |
| 31 | 27-Jul | 6 | 42 | 1,231 | 2,020 | 7,209 | 4,251 | 24 | 2.0 | 48 |
| 32 | 3-Aug | 5 | 49 | 1,629 | 3,447 | 18,969 | 5,380 | 38 | 2.0 | 76 |
| 33 | 10-Aug | 3 | 33 | 525 | 1,768 | 12,607 | 2,285 | 28 | 2.0 | 56 |
| 34 | 17-Aug | 1 | 18 | 293 | 3,010 | 24,714 | 2,345 | 37 | 2.0 | 74 |
| 35 | 24-Aug | 3 | 12 | 49 | 4,950 | 5,501 | 2,868 | 31 | 2.0 | 62 |
| 36 | 31-Aug | 0 | 0 | 44 | 12,565 | 4,583 | 7,337 | 60 | 3.0 | 180 |
| 37 | 7-Sep | 15 | 6 | 208 | 29,283 | 2,485 | 11,430 | 83 | 4.0 | 332 |
| 38 | 14-Sep | 7 | 3 | 8 | 18,730 | 368 | 5,334 | 85 | 4.0 | 340 |
| 39 | 21-Sep | 2 | 1 | 2 | 7,634 | 9 | 2,558 | 51 | 3.0 | 153 |
| 40 | 28-Sep | 0 | 0 | 0 | 601 | 0 | 275 | 14 | 3.0 | 42 |
| Total |  | 1,049 | 570 | 30,533 | 116,074 | 90,217 | 102,156 |  | 46.0 | 2,196 |


| Alaska Hatchery Contributions for Large Chinook and Coho |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: |
|  |  | Large Chinook |  | Coho |  |
|  | Hatchery | Wild | Hatchery | Wild |  |
| 24 | 8-Jun | 51 | 128 | 39 | 55 |
| 25 | 15-Jun | 49 | 128 | 1,031 | 981 |
| 26 | 22-Jun | 133 | 42 | 4,307 | 2,231 |
| 27 | 29-Jun | 129 | 189 | 5,056 | 5,526 |
| 28 | 6-Jul | 17 | 44 | 2,630 | 3,257 |
| 29 | 13-Jul | 0 | 58 | 1,323 | 3,341 |
| 30 | 20-Jul | 0 | 39 | 901 | 1,388 |
| 31 | 27-Jul | 0 | 6 | 195 | 1,825 |
| 32 | 3-Aug | 0 | 5 | 138 | 3,309 |
| 33 | 10-Aug | 0 | 3 | 236 | 1,532 |
| 34 | 17-Aug | 0 | 1 | 293 | 2,717 |
| 35 | 24-Aug | 0 | 3 | 720 | 4,230 |
| 36 | 31-Aug | 0 | 0 | 4,291 | 8,274 |
| 37 | 7-Sep | 0 | 15 | 1,401 | 17,882 |
| 38 | 14-Sep | 0 | 7 | 10,860 | 7,870 |
| 39 | 21-Sep | 0 | 2 | 8,109 | -475 |
| 40 | 28-Sep | 0 | 0 | 276 | 325 |
| Total |  | 380 | 669 | 51,807 | 64,267 |

Appendix A. 2. Weekly stock proportions of sockeye salmon harvested in the Alaskan District 106 commercial drift gillnet fisheries, 2008.

|  | Alaska | Canada | Stikine |  |  |  | Planted Tahltan | CPUE of Stikine Fish |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Tahltan | Tuya | Mainstem | Total |  | Tahltan | Tuya | Mainstem | Total |
| Proportions |  |  |  |  |  |  |  |  |  |  |  |
| 24 | 0.198 | 0.223 | 0.285 | 0.256 | 0.038 | 0.578 | 0.146 | 0.022 | 0.016 | 0.003 | 0.014 |
| 25 | 0.295 | 0.195 | 0.250 | 0.216 | 0.044 | 0.510 | 0.117 | 0.153 | 0.111 | 0.027 | 0.098 |
| 26 | 0.194 | 0.092 | 0.285 | 0.336 | 0.093 | 0.714 | 0.129 | 0.134 | 0.132 | 0.043 | 0.104 |
| 27 | 0.187 | 0.100 | 0.196 | 0.399 | 0.118 | 0.713 | 0.127 | 0.129 | 0.221 | 0.077 | 0.147 |
| 28 | 0.224 | 0.151 | 0.153 | 0.290 | 0.182 | 0.625 | 0.109 | 0.134 | 0.213 | 0.158 | 0.171 |
| 29 | 0.319 | 0.139 | 0.142 | 0.149 | 0.251 | 0.542 | 0.020 | 0.209 | 0.185 | 0.364 | 0.249 |
| 30 | 0.472 | 0.150 | 0.114 | 0.121 | 0.142 | 0.377 | 0.001 | 0.103 | 0.092 | 0.127 | 0.107 |
| 31 | 0.372 | 0.163 | 0.188 | 0.039 | 0.238 | 0.464 | 0.000 | 0.114 | 0.020 | 0.142 | 0.088 |
| 32 | 0.459 | 0.457 | 0.005 | 0.019 | 0.061 | 0.085 | 0.003 | 0.002 | 0.008 | 0.031 | 0.013 |
| 33 | 0.372 | 0.544 | 0.002 | 0.007 | 0.075 | 0.084 | 0.003 | 0.001 | 0.001 | 0.016 | 0.006 |
| 34 | 0.340 | 0.536 | 0.001 | 0.001 | 0.121 | 0.124 | 0.000 | 0.000 | 0.000 | 0.011 | 0.004 |
| 35 | 0.346 | 0.602 | 0.004 | 0.005 | 0.043 | 0.052 | 0.000 | 0.000 | 0.000 | 0.001 | 0.000 |
| 36 | 0.345 | 0.592 | 0.004 | 0.005 | 0.054 | 0.062 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 37 | 0.349 | 0.634 | 0.006 | 0.007 | 0.003 | 0.017 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 38 | 0.345 | 0.594 | 0.004 | 0.005 | 0.052 | 0.061 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 39 | 0.349 | 0.637 | 0.006 | 0.007 | 0.000 | 0.014 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Total | 0.281 | 0.164 | 0.165 | 0.238 | 0.152 | 0.555 | 0.073 |  |  |  |  |
| 24 | 16 | 19 | 24 | 21 | 3 | 48 | 12 | 0.9 | 0.8 | 0.1 | 1.8 |
| 25 | 366 | 242 | 311 | 268 | 55 | 634 | 146 | 6.5 | 5.6 | 1.1 | 13.2 |
| 26 | 691 | 328 | 1,016 | 1,197 | 329 | 2,542 | 460 | 5.6 | 6.7 | 1.8 | 14.1 |
| 27 | 1,352 | 726 | 1,420 | 2,890 | 856 | 5,166 | 921 | 5.5 | 11.1 | 3.3 | 19.9 |
| 28 | 1,170 | 789 | 796 | 1,512 | 952 | 3,260 | 567 | 5.6 | 10.7 | 6.7 | 23.1 |
| 29 | 1,981 | 864 | 883 | 928 | 1,559 | 3,369 | 123 | 8.8 | 9.3 | 15.6 | 33.7 |
| 30 | 1,408 | 448 | 339 | 360 | 425 | 1,124 | 3 | 4.3 | 4.6 | 5.4 | 14.4 |
| 31 | 459 | 201 | 231 | 48 | 293 | 572 | 0 | 4.8 | 1.0 | 6.1 | 11.9 |
| 32 | 748 | 744 | 8 | 31 | 99 | 138 | 6 | 0.1 | 0.4 | 1.3 | 1.8 |
| 33 | 195 | 286 | 1 | 4 | 39 | 44 | 1 | 0.0 | 0.1 | 0.7 | 0.8 |
| 34 | 100 | 157 | 0 | 0 | 36 | 36 | 0 | 0.0 | 0.0 | 0.5 | 0.5 |
| 35 | 17 | 29 | 0 | 0 | 2 | 3 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 36 | 15 | 26 | 0 | 0 | 2 | 3 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 37 | 73 | 132 | 1 | 2 | 1 | 3 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 38 | 3 | 5 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 39 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total | 8,593 | 4,997 | 5,031 | 7,261 | 4,651 | 16,943 | 2,240 | 42.3 | 50.3 | 42.8 | 135.3 |

Appendix A. 3. Weekly salmon catch and effort in the Alaskan Subdistrict 106-41\&42 (Sumner Strait) commercial drift gillnet fishery, 2008.

| Week | Catch |  |  |  |  |  |  | Effort |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Start | Chinook |  | Sockeye | Coho | Pink | Chum | Permits | Days | $\begin{aligned} & \hline \text { Permit } \\ & \text { Days } \end{aligned}$ |
|  | Date | Large n | arge |  |  |  |  |  |  |  |
| 24 | 8-Jun | 132 | 0 | 83 | 91 | 0 | 18 | 10 | 2.0 | 20 |
| 25 | 15-Jun | 90 | 8 | 990 | 1,156 | 15 | 334 | 17 | 2.0 | 34 |
| 26 | 22-Jun | 110 | 33 | 3,109 | 2,789 | 153 | 3,044 | 32 | 4.0 | 128 |
| 27 | 29-Jun | 127 | 44 | 5,721 | 5,538 | 313 | 7,265 | 41 | 4.0 | 164 |
| 28 | 6-Jul | 34 | 7 | 4,307 | 2,583 | 958 | 10,520 | 35 | 3.0 | 105 |
| 29 | 13-Jul | 28 | 23 | 4,196 | 2,630 | 1,014 | 12,281 | 33 | 2.0 | 66 |
| 30 | 20-Jul | 3 | 2 | 980 | 623 | 731 | 3,724 | 20 | 2.0 | 40 |
| 31 | 27-Jul | 0 | 0 | 402 | 656 | 1,200 | 1,531 | 9 | 2.0 | 18 |
| 32 | 3-Aug | 0 | 0 | 277 | 1,223 | 3,319 | 966 | 13 | 2.0 | 26 |
| 33 | 10-Aug | 3 | 3 | 278 | 1,159 | 4,365 | 1,526 | 17 | 2.0 | 34 |
| 34 | 17-Aug | 0 | 0 | 38 | 1,249 | 2,635 | 626 | 13 | 2.0 | 26 |
| 35 | 24-Aug | 2 | 1 | 34 | 4,459 | 2,252 | 2,502 | 23 | 2.0 | 46 |
| 36 | 31-Aug | 0 | 0 | 27 | 9,927 | 1,830 | 5,421 | 41 | 3.0 | 123 |
| 37 | 7-Sep | 3 | 3 | 203 | 21,026 | 907 | 8,033 | 53 | 4.0 | 212 |
| 38 | 14-Sep | 4 | 0 | 5 | 14,433 | 85 | 4,110 | 63 | 4.0 | 252 |
| 39 | 21-Sep | 2 | 1 | 2 | 5,473 | 6 | 2,112 | 39 | 3.0 | 117 |
| 40 | 28-Sep | 0 | 0 | 0 | 525 | 0 | 243 | 12 | 3.0 | 36 |
| Total |  | 538 | 125 | 20,652 | 75,540 | 19,783 | 64,256 |  | 46.0 | 1,447 |

Appendix A. 4. Weekly stock proportions and catches of sockeye salmon harvested in the Alaskan Subdistrict 106-41\&42 (Sumner Strait) commercial drift gillnet fishery, 2008.

| Data based on scale pattern analysis and thermal marks. |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Week | Alaska | Canada | Stikine |  |  |  | Planted <br> Tahltan | CPUE of Stikine Fish |  |  |  |
|  |  |  | Tahltan | Tuya | Mainstem | Total |  | Tahltan | Tuya | Mainstem | Total |
| Proportions |  |  |  |  |  |  |  |  |  |  |  |
| 24 | 0.198 | 0.223 | 0.285 | 0.256 | 0.038 | 0.578 | 0.146 | 0.032 | 0.014 | 0.003 | 0.015 |
| 25 | 0.198 | 0.223 | 0.285 | 0.256 | 0.038 | 0.578 | 0.146 | 0.224 | 0.101 | 0.023 | 0.107 |
| 26 | 0.124 | 0.093 | 0.310 | 0.377 | 0.096 | 0.783 | 0.147 | 0.204 | 0.124 | 0.049 | 0.120 |
| 27 | 0.110 | 0.101 | 0.201 | 0.478 | 0.110 | 0.789 | 0.158 | 0.190 | 0.226 | 0.082 | 0.174 |
| 28 | 0.166 | 0.162 | 0.139 | 0.336 | 0.197 | 0.673 | 0.127 | 0.154 | 0.187 | 0.172 | 0.175 |
| 29 | 0.208 | 0.163 | 0.093 | 0.214 | 0.322 | 0.629 | 0.029 | 0.160 | 0.184 | 0.435 | 0.253 |
| 30 | 0.340 | 0.101 | 0.051 | 0.333 | 0.176 | 0.559 | 0.003 | 0.034 | 0.110 | 0.092 | 0.087 |
| 31 | 0.439 | 0.271 | 0.000 | 0.119 | 0.172 | 0.290 | 0.000 | 0.000 | 0.036 | 0.082 | 0.041 |
| 32 | 0.399 | 0.219 | 0.005 | 0.111 | 0.266 | 0.382 | 0.005 | 0.001 | 0.016 | 0.060 | 0.026 |
| 33 | 0.389 | 0.587 | 0.004 | 0.013 | 0.007 | 0.024 | 0.005 | 0.001 | 0.001 | 0.001 | 0.001 |
| 34 | 0.349 | 0.637 | 0.006 | 0.007 | 0.000 | 0.014 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 35 | 0.349 | 0.637 | 0.006 | 0.007 | 0.000 | 0.014 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 36 | 0.349 | 0.637 | 0.006 | 0.007 | 0.000 | 0.014 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 37 | 0.349 | 0.637 | 0.006 | 0.007 | 0.000 | 0.014 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 38 | 0.349 | 0.637 | 0.006 | 0.007 | 0.000 | 0.014 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 39 | 0.349 | 0.637 | 0.006 | 0.007 | 0.000 | 0.014 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Total | 0.177 | 0.151 | 0.168 | 0.336 | 0.169 | 0.672 | 0.106 | 0.235 | 0.468 | 0.298 | 1.000 |
| Catches |  |  |  |  |  |  |  |  |  |  |  |
| 24 | 16 | 19 | 24 | 21 | 3 | 48 | 12 | 1.2 | 1.1 | 0.2 | 2.4 |
| 25 | 196 | 221 | 282 | 253 | 37 | 573 | 144 | 8.3 | 7.4 | 1.1 | 16.8 |
| 26 | 386 | 290 | 964 | 1,171 | 298 | 2,433 | 457 | 7.5 | 9.1 | 2.3 | 19.0 |
| 27 | 628 | 578 | 1,152 | 2,734 | 629 | 4,515 | 905 | 7.0 | 16.7 | 3.8 | 27.5 |
| 28 | 714 | 696 | 599 | 1,449 | 849 | 2,896 | 547 | 5.7 | 13.8 | 8.1 | 27.6 |
| 29 | 872 | 684 | 392 | 898 | 1,351 | 2,640 | 123 | 5.9 | 13.6 | 20.5 | 40.0 |
| 30 | 333 | 99 | 50 | 326 | 172 | 548 | 3 | 1.2 | 8.1 | 4.3 | 13.7 |
| 31 | 176 | 109 | 0 | 48 | 69 | 117 | 0 | 0.0 | 2.6 | 3.8 | 6.5 |
| 32 | 111 | 61 | 1 | 31 | 74 | 106 | 1 | 0.1 | 1.2 | 2.8 | 4.1 |
| 33 | 108 | 163 | 1 | 4 | 2 | 7 | 1 | 0.0 | 0.1 | 0.1 | 0.2 |
| 34 | 13 | 24 | 0 | 0 | 0 | 1 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 35 | 12 | 22 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 36 | 9 | 17 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 37 | 71 | 129 | 1 | 2 | 0 | 3 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 38 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 39 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total | 3,649 | 3,117 | 3,467 | 6,936 | 3,484 | 13,886 | 2,196 | 37.0 | 73.8 | 47.0 | 157.9 |

Appendix A. 5. Weekly salmon catch and effort in the Alaskan Subdistrict 106-30 (Clarence Strait) commercial drift gillnet fishery, 2008.

| Week | Catch |  |  |  |  |  |  | Effort |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Start | Chinook |  | Sockeye | Coho | Pink | Chum | Permits | Days | Permit Days |
|  | Date | Large | non large |  |  |  |  |  |  |  |
| 24 | 8-Jun | 47 | 8 | 0 | 3 | 0 | 4 | 3 | 2.0 | 6 |
| 25 | 15-Jun | 87 | 23 | 252 | 856 | 3 | 104 | 8 | 2.0 | 16 |
| 26 | 22-Jun | 65 | 21 | 452 | 3,749 | 1,060 | 199 | 13 | 4.0 | 52 |
| 27 | 29-Jun | 191 | 88 | 1,523 | 5,044 | 1,605 | 4,374 | 27 | 4.0 | 108 |
| 28 | 6-Jul | 27 | 44 | 912 | 3,304 | 1,471 | 1,102 | 13 | 3.0 | 39 |
| 29 | 13-Jul | 30 | 48 | 2,019 | 2,034 | 3,018 | 6,168 | 19 | 2.0 | 38 |
| 30 | 20-Jul | 36 | 57 | 2,000 | 1,666 | 3,431 | 8,956 | 20 | 2.0 | 40 |
| 31 | 27-Jul | 6 | 42 | 829 | 1,364 | 6,009 | 2,720 | 15 | 2.0 | 30 |
| 32 | 3-Aug | 5 | 49 | 1,352 | 2,224 | 15,650 | 4,414 | 25 | 2.0 | 50 |
| 33 | 10-Aug | 0 | 30 | 247 | 609 | 8,242 | 759 | 12 | 2.0 | 24 |
| 34 | 17-Aug | 1 | 18 | 255 | 1,761 | 22,079 | 1,719 | 24 | 2.0 | 48 |
| 35 | 24-Aug | 1 | 11 | 15 | 491 | 3,249 | 366 | 8 | 2.0 | 16 |
| 36 | 31-Aug | 0 | 0 | 17 | 2,638 | 2,753 | 1,916 | 20 | 3.0 | 60 |
| 37 | 7-Sep | 12 | 3 | 5 | 8,257 | 1,578 | 3,397 | 30 | 4.0 | 120 |
| 38 | 14-Sep | 3 | 3 | 3 | 4,297 | 283 | 1,224 | 26 | 4.0 | 104 |
| 39-40 ${ }^{\text {a }}$ | 21-28-Sep | 0 | 0 | 0 | 2,237 | 3 | 478 |  |  |  |
| Total |  | 511 | 445 | 9,881 | 40,534 | 70,434 | 37,900 |  | 46.0 | 799 |

Appendix A. 6. Weekly stock proportions and catches of sockeye salmon harvested in the Alaskan Subdistrict 106-30 (Clarence Strait) commercial drift gillnet fishery, 2008.

| Data based on scale pattern analysis and thermal marks. |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Stikine |  |  |  | Planted <br> Tahltan | CPUE of Stikine Fish |  |  |  |
| Week | Alaska | Canada | Tahltan | Tuya M | instem | Total |  | Tahltan | Tuya | Mainstem | Total |
| Proportions |  |  |  |  |  |  |  |  |  |  |  |
| 25 | 0.674 | 0.083 | 0.113 | 0.059 | 0.070 | 0.243 | 0.005 | 0.047 | 0.000 | 0.039 | 0.052 |
| 26 | 0.674 | 0.083 | 0.113 | 0.059 | 0.070 | 0.243 | 0.005 | 0.026 | 0.000 | 0.021 | 0.029 |
| 27 | 0.475 | 0.097 | 0.176 | 0.103 | 0.149 | 0.427 | 0.011 | 0.065 | 0.000 | 0.073 | 0.082 |
| 28 | 0.499 | 0.102 | 0.217 | 0.069 | 0.113 | 0.399 | 0.022 | 0.132 | 0.000 | 0.092 | 0.127 |
| 29 | 0.550 | 0.089 | 0.244 | 0.015 | 0.103 | 0.361 | 0.000 | 0.338 | 0.000 | 0.191 | 0.262 |
| 30 | 0.537 | 0.174 | 0.145 | 0.017 | 0.126 | 0.288 | 0.000 | 0.189 | 0.000 | 0.220 | 0.197 |
| 31 | 0.340 | 0.111 | 0.279 | 0.000 | 0.270 | 0.549 | 0.000 | 0.201 | 0.000 | 0.260 | 0.207 |
| 32 | 0.471 | 0.505 | 0.005 | 0.000 | 0.019 | 0.024 | 0.003 | 0.003 | 0.000 | 0.018 | 0.009 |
| 33 | 0.351 | 0.496 | 0.001 | 0.000 | 0.152 | 0.153 | 0.000 | 0.000 | 0.000 | 0.055 | 0.022 |
| 34 | 0.339 | 0.521 | 0.000 | 0.000 | 0.140 | 0.140 | 0.000 | 0.000 | 0.000 | 0.026 | 0.010 |
| 35 | 0.339 | 0.521 | 0.000 | 0.000 | 0.140 | 0.140 | 0.000 | 0.000 | 0.000 | 0.005 | 0.002 |
| 36 | 0.339 | 0.521 | 0.000 | 0.000 | 0.140 | 0.140 | 0.000 | 0.000 | 0.000 | 0.001 | 0.001 |
| 37 | 0.339 | 0.521 | 0.000 | 0.000 | 0.140 | 0.140 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 38 | 0.339 | 0.521 | 0.000 | 0.000 | 0.140 | 0.140 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Total | 0.500 | 0.190 | 0.158 | 0.033 | 0.118 | 0.309 | 0.004 | 0.524 | 0.084 | 0.392 | 1.000 |
| Catches |  |  |  |  |  |  |  |  |  |  |  |
| 24 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 25 | 170 | 21 | 29 | 15 | 18 | 61 | 1 | 1.8 | 0.9 | 1.1 | 3.8 |
| 26 | 305 | 37 | 51 | 27 | 32 | 110 | 2 | 1.0 | 0.5 | 0.6 | 2.1 |
| 27 | 724 | 148 | 268 | 156 | 227 | 651 | 16 | 2.5 | 1.4 | 2.1 | 6.0 |
| 28 | 455 | 93 | 198 | 63 | 103 | 363 | 20 | 5.1 | 1.6 | 2.6 | 9.3 |
| 29 | 1,110 | 180 | 492 | 29 | 208 | 729 | 0 | 12.9 | 0.8 | 5.5 | 19.2 |
| 30 | 1,075 | 349 | 290 | 35 | 252 | 576 | 0 | 7.2 | 0.9 | 6.3 | 14.4 |
| 31 | 282 | 92 | 231 | 0 | 224 | 455 | 0 | 7.7 | 0.0 | 7.5 | 15.2 |
| 32 | 637 | 683 | 6 | 0 | 26 | 32 | 4 | 0.1 | 0.0 | 0.5 | 0.6 |
| 33 | 87 | 122 | 0 | 0 | 38 | 38 | 0 | 0.0 | 0.0 | 1.6 | 1.6 |
| 34 | 86 | 133 | 0 | 0 | 36 | 36 | 0 | 0.0 | 0.0 | 0.7 | 0.7 |
| 35 | 5 | 8 | 0 | 0 | 2 | 2 | 0 | 0.0 | 0.0 | 0.1 | 0.1 |
| 36 | 6 | 9 | 0 | 0 | 2 | 2 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 37 | 2 | 3 | 0 | 0 | 1 | 1 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 38 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total | 4,944 | 1,880 | 1,564 | 325 | 1,168 | 3,057 | 44 | 38.3 | 6.1 | 28.7 | 73.2 |

Appendix A. 7. Weekly salmon catch and effort in the Alaskan District 108 commercial drift gillnet fishery, 2008.

| Week | Start <br> Date | Catch |  |  |  |  |  | Effort |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Chinook |  | Sockeye | Coho | Pink | Chum | Permits | Days | Permit Days |
|  |  | Large | non large |  |  |  |  |  |  |  |
| 19 | 4-May | 320 | 7 | 0 | 0 | 0 | 0 | 31 | 2.0 | 62.0 |
| 20 | 11-May | 769 | 20 | 0 | 0 | 0 | 1 | 53 | 2.0 | 106.0 |
| 21 | 18-May | 1591 | 51 | 1 | 0 | 0 | 0 | 96 | 2.0 | 192.0 |
| 22 | 25-May | 1396 | 67 | 0 | 0 | 0 | 0 | 103 | 1.0 | 103.0 |
| 23 | 1-Jun | 1538 | 63 | 1 | 0 | 0 | 1 | 103 | 1.0 | 103.0 |
| 24 | 8-Jun | 1,267 | 47 | 78 | 1 | 0 | 12 | 70 | 2.0 | 140.0 |
| 25 | 15-Jun | 2,258 | 240 | 2,102 | 260 | 0 | 69 | 76 | 2.0 | 152.0 |
| 26 | 22-Jun | 2,074 | 494 | 10,604 | 696 | 13 | 873 | 88 | 4.0 | 352.0 |
| 27 | 29-Jun | 903 | 189 | 6,850 | 1,495 | 133 | 2,905 | 75 | 4.0 | 300.0 |
| 28 | 6-Jul | 540 | 178 | 6,519 | 822 | 220 | 7,328 | 65 | 5.0 | 216.0 |
| 29 | 13-Jul | 250 | 93 | 6,747 | 1,818 | 1,220 | 18,848 | 61 | 4.0 | 166.0 |
| 30 | 20-Jul | 60 | 45 | 1,520 | 354 | 706 | 14,113 | 39 | 2.0 | 78.0 |
| 31 | 27-Jul | 47 | 19 | 712 | 1,022 | 4,686 | 19,429 | 52 | 2.0 | 104.0 |
| 32 | 3-Aug | 7 | 4 | 203 | 726 | 2,511 | 12,103 | 32 | 2.0 | 64.0 |
| 33 | 10-Aug | 4 | 10 | 252 | 2,281 | 4,434 | 2,778 | 42 | 2.0 | 84.0 |
| 34 | 17-Aug | 0 | 10 | 38 | 2,961 | 1,239 | 669 | 35 | 2.0 | 70.0 |
| 35 | 24-Aug | 1 | 6 | 37 | 2,914 | 2,111 | 548 | 36 | 2.0 | 72.0 |
| 36 | 31-Aug | 17 | 3 | 9 | 4,133 | 386 | 444 | 29 | 3.0 | 87.0 |
| 37 | 7-Sep | 4 | 3 | 6 | 8,153 | 440 | 1,175 | 43 | 4.0 | 172.0 |
| 38 | 14-Sep | 0 | 0 | 0 | 4,273 | 5 | 357 | 40 | 4.0 | 160.0 |
| 39 | 21-Sep | 3 | 1 | 0 | 2,441 | 1 | 217 | 30 | 3.0 | 90.0 |
| 40 | 28-Sep | 0 | 0 | 0 | 129 | 0 | 6 | 8 | 3.0 | 24.0 |
| Total |  | 13,049 | 1,550 | 35,679 | 34,479 | 18,105 | 81,876 |  | 58.0 | 2,897 |


| Alaska Hatchery Contributions for Large Chinook and Coho |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: |
|  |  | Large Chinook |  | Coho |  |
|  | Hatchery | Wild | Hatchery | Wild |  |
| 19 | 4-May | 0 | 320 | 0 | 0 |
| 20 | 11-May | 95 | 674 | 0 | 0 |
| 21 | 18-May | 336 | 1,255 | 0 | 0 |
| 22 | 25-May | 253 | 1,143 | 0 | 0 |
| 23 | 1-Jun | 201 | 1,337 | 0 | 0 |
| 24 | 8-Jun | 387 | 880 | 0 | 1 |
| 25 | 15-Jun | 1,146 | 1,112 | 70 | 190 |
| 26 | 22-Jun | 1593 | 481 | 70 | 626 |
| 27 | 29-Jun | 1035 | -132 | 536 | 959 |
| 28 | 6-Jul | 276 | 264 | 422 | 400 |
| 29 | 13-Jul | 286 | -36 | 633 | 1,185 |
| 30 | 20-Jul | 0 | 60 | 0 | 354 |
| 31 | 27-Jul | 20 | 27 | 183 | 839 |
| 32 | 3-Aug | 0 | 7 | 23 | 703 |
| 33 | 10-Aug | 0 | 4 | 285 | 1,996 |
| 34 | 17-Aug | 0 | 0 | 111 | 2,850 |
| 35 | 24-Aug | 0 | 1 | 286 | 2,628 |
| 36 | 31-Aug | 0 | 17 | 445 | 3,688 |
| 37 | 7-Sep | 0 | 4 | 3,281 | 4,872 |
| 38 | 14-Sep | 0 | 0 | 1,530 | 2,743 |
| 39 | 21-Sep | 0 | 3 | 1,697 | 744 |
| 40 | 28-Sep | 0 | 0 | 103 | 26 |
| Total |  | 5,627 | 7,422 | 9,674 | 24,805 |

Appendix A. 8. Weekly stock proportions and stock-specific catch of sockeye salmon in the Alaskan District 108 commercial drift gillnet fishery, 2008.

|  |  |  | Stikine |  |  |  | Planted <br> Tahltan | CPUE of Stikine Fish |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Week | Alaska | Canada | Tahltan | Tuya M | instem | Total |  | Tahltan | Tuya | nstem | Total |
| Proportions |  |  |  |  |  |  |  |  |  |  |  |
| 20-24 | 0.025 | 0.032 | 0.541 | 0.321 | 0.080 | 0.943 | 0.188 | 0.001 | 0.001 | 0.000 | 0.001 |
| 25 | 0.025 | 0.032 | 0.541 | 0.321 | 0.080 | 0.943 | 0.163 | 0.144 | 0.106 | 0.027 | 0.097 |
| 26 | 0.017 | 0.083 | 0.465 | 0.371 | 0.063 | 0.900 | 0.217 | 0.269 | 0.266 | 0.046 | 0.201 |
| 27 | 0.083 | 0.073 | 0.371 | 0.420 | 0.054 | 0.845 | 0.224 | 0.163 | 0.228 | 0.030 | 0.143 |
| 28 | 0.113 | 0.266 | 0.244 | 0.246 | 0.131 | 0.621 | 0.148 | 0.142 | 0.176 | 0.096 | 0.139 |
| 29 | 0.189 | 0.093 | 0.325 | 0.138 | 0.255 | 0.719 | 0.097 | 0.255 | 0.133 | 0.252 | 0.216 |
| 30 | 0.132 | 0.018 | 0.065 | 0.109 | 0.675 | 0.849 | 0.051 | 0.024 | 0.051 | 0.320 | 0.122 |
| 31 | 0.043 | 0.050 | 0.012 | 0.125 | 0.771 | 0.908 | 0.000 | 0.002 | 0.020 | 0.129 | 0.046 |
| 32 | 0.170 | 0.017 | 0.000 | 0.137 | 0.676 | 0.814 | 0.000 | 0.000 | 0.010 | 0.052 | 0.019 |
| 33 | 0.319 | 0.128 | 0.000 | 0.095 | 0.458 | 0.553 | 0.000 | 0.000 | 0.007 | 0.033 | 0.012 |
| 34 | 0.319 | 0.128 | 0.000 | 0.095 | 0.458 | 0.553 | 0.044 | 0.000 | 0.001 | 0.006 | 0.002 |
| 35 | 0.319 | 0.128 | 0.000 | 0.095 | 0.458 | 0.553 | 0.044 | 0.000 | 0.001 | 0.006 | 0.002 |
| 36 | 0.319 | 0.128 | 0.000 | 0.095 | 0.458 | 0.553 | 0.044 | 0.000 | 0.000 | 0.001 | 0.000 |
| 37 | 0.319 | 0.128 | 0.000 | 0.095 | 0.458 | 0.553 | 0.044 | 0.000 | 0.000 | 0.000 | 0.000 |
| Total | 0.089 | 0.110 | 0.352 | 0.291 | 0.159 | 0.801 | 0.165 | 0.385 | 0.312 | 0.304 | 1.000 |
| Catch |  |  |  |  |  |  |  |  |  |  |  |
| 20-24 | 2 | 3 | 43 | 26 | 6 | 75 | 15 | 0.1 | 0.0 | 0.0 | 0.1 |
| 25 | 52 | 67 | 1,138 | 675 | 169 | 1,983 | 342 | 7.5 | 4.4 | 1.1 | 13.0 |
| 26 | 183 | 883 | 4,929 | 3,938 | 672 | 9,538 | 2,306 | 14.0 | 11.2 | 1.9 | 27.1 |
| 27 | 565 | 497 | 2,542 | 2,876 | 369 | 5,787 | 1,537 | 8.5 | 9.6 | 1.2 | 19.3 |
| 28 | 739 | 1,732 | 1,591 | 1,603 | 853 | 4,047 | 964 | 7.4 | 7.4 | 3.9 | 18.7 |
| 29 | 1,272 | 627 | 2,196 | 932 | 1,720 | 4,848 | 654 | 13.2 | 5.6 | 10.4 | 29.2 |
| 30 | 201 | 28 | 99 | 166 | 1,026 | 1,291 | 77 | 1.3 | 2.1 | 13.2 | 16.5 |
| 31 | 30 | 35 | 8 | 89 | 549 | 646 | 0 | 0.1 | 0.9 | 5.3 | 6.2 |
| 32 | 34 | 3 | 0 | 28 | 137 | 165 | 0 | 0.0 | 0.4 | 2.1 | 2.6 |
| 33 | 80 | 32 | 0 | 24 | 115 | 139 | 0 | 0.0 | 0.3 | 1.4 | 1.7 |
| 34 | 12 | 5 | 0 | 4 | 17 | 21 | 2 | 0.0 | 0.1 | 0.2 | 0.3 |
| 35 | 12 | 5 | 0 | 4 | 17 | 20 | 2 | 0.0 | 0.0 | 0.2 | 0.3 |
| 36 | 3 | 1 | 0 | 1 | 4 | 5 | 0 | 0.0 | 0.0 | 0.0 | 0.1 |
| 37 | 2 | 1 | 0 | 1 | 3 | 3 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total | 3,189 | 3,919 | 12,547 | 10,365 | 5,659 | 28,571 | 5,899 | 52.0 | 42.1 | 41.1 | 135.1 |

Appendix A. 9. Weekly salmon catch and effort and sockeye salmon stock composition in the Alaskan District 108 test fishery, 2008. There was no marine test fishery in 2008.

Appendix A. 10. Inseason estimates of gillnet, troll, recreational, and subistence catch of Stikine River bound Chinook salmon in District 108, 2008.

| Week | Start <br> Date | Salmon Harvest |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Gillent |  |  | Troll |  |  | $\begin{gathered} \hline \text { Rec } \\ \hline \text { Chinook } \\ \hline \end{gathered}$ | $\begin{gathered} \frac{\text { Subsistence }}{\text { Chinook }} \\ \hline \end{gathered}$ | Total <br> Large |
|  |  | Chinook | Permits | Days | Chinook | Permits | Days |  |  |  |
| 18 | 27-Apr |  |  |  |  |  |  | 38 |  | 38 |
| 19 | 4-May | 318 | 31 | 2 | 72 | 19 | 5 | 192 |  | 582 |
| 20 | 11-May | 670 | 53 | 2 | 160 | 28 | 5 | 170 |  | 1,000 |
| 21 | 18-May | 1248 | 96 | 2 | 313 | 49 | 5 | 560 |  | 2,121 |
| 22 | 25-May | 1139 | 103 | 1 | 154 | 34 | 3 | 195 | 2 | 1,489 |
| 23 | 1-Jun | 1335 | 103 | 1 | 145 | 28 | 3 | 300 | 0 | 1,780 |
| 24 | 8-Jun | 874 | 70 | 2 | 129 | 36 | 5 | 115 | 0 | 1,118 |
| 25 | 15-Jun | 1,112 | 76 | 2 | -1 | 23 | 5 | 72 | 6 | 1,190 |
| 26 | 22-Jun | 481 | 88 | 4 | 79 | 11 | 5 | -295 | 3 | 268 |
| 27 | 29-Jun | -132 | 75 | 4 | 12 | 2 | 1 | 5 | 10 | -105 |
| 28 | 6-Jul | 264 | 65 | 5 |  |  |  |  | 4 | 268 |
| 29 | 13-Jul | -36 | 61 | 4 |  |  |  |  | 1 | -35 |
| Total |  | 7,274 | 821 | 29 | 1,063 | 230 | 37 | 1,352 | 26 | 9,715 |

Appendix A. 11. U.S. subsistence fishery harvest in the Stikine River, 2007.

| Week | Start <br> Date | Salmon Harvest |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Chinook |  | Sockeye | Coho | Pink | Chum | Dolly Reporting |  |
|  |  | Large | non large |  |  |  |  |  |  |  |
| 22 | 25-May | 2 | 0 | 0 |  |  | 0 | 0 |  |
| 23 | 1-Jun | 0 | 0 | 0 |  |  | 0 | 0 |  |
| 24 | 8-Jun | 0 | 0 | 0 |  |  | 0 | 0 |  |
| 25 | 15-Jun | 6 | 0 | 52 |  |  | 0 | 1 |  |
| 26 | 22-Jun | 3 | 6 | 134 |  |  | 1 | 1 |  |
| 27 | 29-Jun | 10 | 0 | 135 |  |  | 0 | 1 |  |
| 28 | 6-Jul | 4 | 0 | 81 |  |  | 0 | 2 |  |
| 29 | 13-Jul | 1 | 0 | 26 |  |  | 4 | 0 |  |
| 30 | 20-Jul |  |  |  |  |  |  |  |  |
| 31 | 27-Jul |  |  |  |  |  |  |  |  |
| 32 | 3-Aug |  |  |  | 1 | 15 | 5 |  |  |
| 33 | 10-Aug |  |  |  | 0 | 0 | 0 |  |  |
| 34 | 17-Aug |  |  |  | 0 | 0 | 0 |  |  |
| 35 | 24-Aug |  |  |  | 0 | 0 | 0 |  |  |
| 36 | 31-Aug |  |  |  | 15 | 3 | 2 |  |  |
| 37 | 7-Sep |  |  |  | 18 | 0 | 0 |  |  |
| 38 | 14-Sep |  |  |  | 8 | 0 | 0 |  |  |
| Total |  | 26 | 6 | 428 | 42 | 18 | 12 | 5 | 22 |

Appendix A. 12. Weekly salmon catch and effort in the Canadian commercial fishery in the lower Stikine River, 2008.

| Week | Catch |  |  |  |  |  |  | Effort |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Start | Chinook |  | Sockeye | Coho | Pink | Chum | Permits | Days | Permit |
|  | Date | Large | non large |  |  |  |  |  |  | Days |
| 19 | 4-May | 99 | 2 | 0 | 0 | 0 | 0 | 12.00 | 2.0 | 24.0 |
| 20 | 11-May | 393 | 31 | 0 | 0 | 0 | 0 | 12.00 | 2.0 | 24.0 |
| 21 | 18-May | 530 | 44 | 0 | 0 | 0 | 0 | 12.00 | 3.0 | 36.0 |
| 22 | 25-May | 470 | 17 | 0 | 0 | 0 | 0 | 11.60 | 5.0 | 58.0 |
| 23 | 1-Jun | 1,423 | 119 | 1 | 0 | 0 | 0 | 12.00 | 5.0 | 60.0 |
| 24 | 8-Jun | 1,752 | 163 | 33 | 1 | 0 | 0 | 12.00 | 3.0 | 36.0 |
| 25 | 15-Jun | 1,059 | 95 | 478 | 0 | 8 | 9 | 12.00 | 3.0 | 36.0 |
| 26 | 22-Jun | 647 | 203 | 8,378 | 0 | 0 | 0 | 12.00 | 5.0 | 60.0 |
| 27 | 29-Jun | 356 | 151 | 9,791 | 0 | 1 | 3 | 12.00 | 5.0 | 60.0 |
| 28 | 6-Jul | 177 | 50 | 3,574 | 0 | 0 | 0 | 12.00 | 3.0 | 36.0 |
| 29 | 13-Jul | 90 | 26 | 2,912 | 1 | 0 | 0 | 12.00 | 2.0 | 24.0 |
| 30 | 20-Jul | 41 | 6 | 1,472 | 1 | 0 | 0 | 12.00 | 2.0 | 24.0 |
| 31 | 27-Jul | 9 | 1 | 1,581 | 10 | 0 | 0 | 11.00 | 2.0 | 22.0 |
| 32 | 3-Aug | 3 | 0 | 366 | 18 | 47 | 55 | 6.00 | 1.0 | 6.0 |
| 33 | 10-Aug | 1 | 0 | 44 | 30 | 0 | 0 | 5.00 | 1.0 | 5.0 |
| 34 | 17-Aug | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 | 0.0 | 0.0 |
| 35 | 24-Aug | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 | 0.0 | 0.0 |
| 36 | 31-Aug | 0 | 0 | 4 | 1,737 | 23 | 11 | 5.00 | 7.0 | 35.0 |
| 37 | 7-Sep | 1 | 0 | 2 | 600 | 9 | 12 | 5.00 | 4.0 | 20.0 |
| Inseason |  | 7,242 | 665 |  |  |  |  |  |  |  |
| Final |  | 7,051 | 908 | 28,636 | 2,398 | 88 | 90 |  | 55.0 | 566.0 |

Appendix A. 13. Weekly sockeye salmon stock proportions and catch by stock in the Canadian commercial fishery in the lower Stikine River, 2008.


Appendix A. 14. Weekly salmon catch and effort in the Canadian commercial fishery in the upper Stikine River, 2008.

| Week | Catch |  |  |  |  |  |  | Effort |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Start | Chinook |  | Sockeye | Coho | Pink | Chum | Permits | Days | $\begin{gathered} \text { Permit } \\ \text { Days } \end{gathered}$ |
|  | Date | Large | non large |  |  |  |  |  |  |  |
| 27 | 29-Jun | 0 | 0 | 26 |  |  |  | 1.0 | 2.0 | 2.0 |
| 28 | 6-Jul | 30 | 3 | 72 |  |  |  | 1.0 | 5.0 | 5.0 |
| 29 | 13-Jul | 0 | 6 | 212 |  |  |  | 1.0 | 2.0 | 2.0 |
| 30 | 20-Jul | 5 | 0 | 82 |  |  |  | 1.0 | 2.0 | 2.0 |
| 31 | 27-Jul |  |  |  |  |  |  |  |  |  |
| 32 | 3-Aug | 5 | 0 | 113 |  |  |  | 1.0 | 2.0 | 2.0 |
| Total |  | 40 | 9 | 505 | 0 | 0 | 0 | 5.0 | 13.0 | 13.0 |

Appendix A. 15. Weekly salmon catch and effort in the Canadian Aboriginal fishery located at Telegraph Creek, on the Stikine River, 2008.

| Week | Start <br> Date | Catch |  |  |  |  |  | Effort |  |  | Tahltan Sport Fishery |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Chinook |  | Sockeye | Coho | Pink | Chum | Permits | Days | Permit Days | Rod <br> Hours | Chinook |  |  | Total |
|  |  | Large | non large |  |  |  |  |  |  |  |  | Retained | Released |  |  |
| 21 | 18-May | 1 | 0 | 0 | 0 | 0 | 0 | 1.00 | 1.0 | 1.0 |  |  |  |  |  |
| 22 | 25-May | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 | 0.0 | 0.0 |  |  |  |  |  |
| 23 | 1-Jun | 34 | 0 | 0 | 0 | 0 | 0 | 3.00 | 6.0 | 18.0 |  |  |  |  |  |
| 24 | 8-Jun | 140 | 9 | 0 | 0 | 0 | 0 | 4.29 | 7.0 | 30.0 |  |  |  |  |  |
| 25 | 15-Jun | 109 | 17 | 5 | 0 | 0 | 0 | 4.29 | 7.0 | 30.0 |  |  |  |  |  |
| 26 | 22-Jun | 125 | 12 | 9 | 0 | 0 | 0 | 3.57 | 7.0 | 25.0 |  |  |  |  |  |
| 27 | 29-Jun | 54 | 27 | 220 | 0 | 0 | 0 | 2.83 | 7.0 | 19.8 | 16 | 0 | 0 | ) | 0 |
| 28 | 6-Jul | 137 | 54 | 1,151 | 0 | 0 | 0 | 12.71 | 7.0 | 89.0 | 202 | 25 | 1 | 1 | 26 |
| 29 | 13-Jul | 45 | 8 | 1,823 | 0 | 0 | 0 | 12.43 | 7.0 | 87.0 | 70 | 16 | 1 | 1 | 17 |
| 30 | 20-Jul | 60 | 5 | 743 | 0 | 0 | 0 | 7.29 | 7.0 | 51.0 | 110 | 8 | 2 | 2 | 10 |
| 31 | 27-Jul | 7 | 5 | 234 | 0 | 0 | 0 | 3.71 | 7.0 | 26.0 | 2 | 0 | 0 | ) | 0 |
| 32 | 3-Aug | 48 | 12 | 270 | 0 | 0 | 0 | 2.57 | 7.0 | 18.0 |  |  |  |  |  |
| 33 | 10-Aug | 9 | 1 | 29 | 0 | 0 | 0 | 2.00 | 7.0 | 14.0 |  |  |  |  |  |
| 34 | 17-Aug | 0 | 0 | 26 | 0 | 0 | 0 | 1.00 | 3.0 | 3.0 |  |  |  |  |  |
| Total |  | 769 | 150 | 4,510 | 0 | 0 | 0 |  | 80 | 411.8 | 399 | 49 | 4 | 4 | 53 |

Appendix A. 16. Catch by stock and week for sockeye salmon harvested in the Canadian upper river commercial and Aboriginal fisheries in the Stikine River, 2008.

| Week | Start <br> Date | Stock |  |  | Tahltan |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Tahltan | Tuya | nstem | Wild | Planted |
| Proportion by stock for upper river fisheries |  |  |  |  |  |  |
| 25 | 15-Jun | 0.850 | 0.150 | 0.000 | 0.791 | 0.060 |
| 26 | 22-Jun | 0.850 | 0.150 | 0.000 | 0.791 | 0.060 |
| 27 | 29-Jun | 0.850 | 0.150 | 0.000 | 0.791 | 0.060 |
| 28 | 6-Jul | 0.706 | 0.171 | 0.123 | 0.634 | 0.072 |
| 29 | 13-Jul | 0.800 | 0.200 | 0.000 | 0.655 | 0.145 |
| 30 | 20-Jul | 0.731 | 0.166 | 0.103 | 0.567 | 0.164 |
| 31 | 27-Jul | 0.405 | 0.154 | 0.441 | 0.256 | 0.150 |
| 32 | 3-Aug | 0.538 | 0.193 | 0.269 | 0.449 | 0.089 |
| 33 | 10-Aug | 0.497 | 0.379 | 0.124 | 0.393 | 0.103 |
| 34 | 17-Aug | 0.731 | 0.269 | 0.000 | 0.692 | 0.038 |
| Total |  |  |  |  |  |  |
| Catch by stock for upper river commercial fishery |  |  |  |  |  |  |
| 27 | 29-Jun | 22 | 4 | 0 | 21 | 2 |
| 28 | 6-Jul | 51 | 12 | 9 | 46 | 5 |
| 29 | 13-Jul | 170 | 42 | 0 | 139 | 31 |
| 30 | 20-Jul | 60 | 14 | 8 | 46 | 13 |
| 31 | 27-Jul |  |  |  |  |  |
| 32 | 3-Aug | 61 | 22 | 30 | 51 | 10 |
| Total |  | 363 | 94 | 48 | 302 | 61 |
| Catch by stock for upper river aboriginal fishery |  |  |  |  |  |  |
| 25 | 15-Jun | 4 | 1 | 0 | 4 | 0 |
| 26 | 22-Jun | 8 | 1 | 0 | 7 | 1 |
| 27 | 29-Jun | 187 | 33 | 0 | 174 | 13 |
| 28 | 6-Jul | 812 | 197 | 142 | 729 | 83 |
| 29 | 13-Jul | 1,459 | 364 | 0 | 1,194 | 265 |
| 30 | 20-Jul | 543 | 123 | 77 | 421 | 122 |
| 31 | 27-Jul | 95 | 36 | 103 | 60 | 35 |
| 32 | 3-Aug | 145 | 52 | 73 | 121 | 24 |
| 33 | 10-Aug | 14 | 11 | 4 | 11 | 3 |
| 34 | 17-Aug | 19 | 7 | 0 | 18 | 1 |
| Total |  | 3,287 | 825 | 398 | 2,740 | 547 |

Appendix A. 17. Weekly salmon catch and effort in the Canadian test fishery in the Stikine River, 2008.

| Week | Start <br> Date | Catch |  |  |  |  | \# Drifts/ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Chinook |  | Sockeye | Coho | Pink |  |  |
|  |  | Large | non large |  |  |  | Chum Set Hours |  |
| Drift gillnet |  |  |  |  |  |  |  |  |
| 28 | 6-Jul | 0 | 0 | 45 | 0 | 0 | 0 | 14 |
| 29 | 13-Jul | 1 | 0 | 56 | 0 | 2 | 10 | 28 |
| 30 | 20-Jul | 1 | 0 | 49 | 1 | 4 | 9 | 28 |
| 31 | 27-Jul | 2 | 2 | 51 | 4 | 12 | 26 | 42 |
| 32 | 3-Aug | 0 | 0 | 14 | 3 | 6 | 20 | 42 |
| 33 | 10-Aug | 0 | 0 | 13 | 5 | 3 | 18 | 42 |
| 34 | 17-Aug | 3 | 0 | 5 | 22 | 3 | 9 | 42 |
| 35 | 24-Aug | 0 | 0 | 5 | 57 | 4 | 22 | 42 |
| 36 | 31-Aug | 0 | 0 | 2 | 30 | 1 | 8 | 28 |
| 37 | 7-Sep | 0 | 0 | 1 | 80 | 0 | 1 | 84 |
| 38 | 14-Sep | 0 | 0 | 0 | 58 | 0 | 1 | 84 |
| 39 | 21-Sep | 0 | 0 | 0 | 49 | 0 | 0 | 84 |
| 40 | $28-\mathrm{Sep}$ | 0 | 0 | 0 | 2 | 0 | 0 | 46 |
| 41 | 5-Oct | 0 | 0 | 0 | 8 | 0 | 0 | 89 |
| 42 | 12 -Oct | 0 | 0 | 0 | 2 | 0 | 0 | 35 |
| Total |  | 7 | 2 | 241 | 321 | 35 | 124 | 730 |
| Set gillnet |  |  |  |  |  |  |  |  |
| 28 | 6-Jul | 1 | 1 | 223 | 0 | 2 | 3 | 24 |
| 29 | 13-Jul | 1 | 3 | 188 | 0 | 8 | 21 | 36 |
| 30 | 20-Jul | 0 | 2 | 176 | 1 | 11 | 35 | 36 |
| 31 | 27-Jul | 3 | 2 | 195 | 4 | 53 | 63 | 60 |
| 32 | 3-Aug | 0 | 0 | 43 | 9 | 10 | 19 | 60 |
| 33 | 10-Aug | 0 | 0 | 5 | 3 | 1 | 2 | 60 |
| 34 | 17-Aug | 1 | 0 | 17 | 48 | 5 | 8 | 60 |
| 35 | 24-Aug | 0 | 0 | 23 | 151 | 4 | 3 | 60 |
|  |  | 6 | 8 | 870 | 216 | 94 | 154 | 396 |
| Total Test Fishery Catch |  |  |  |  |  |  |  |  |
| 28 | 6-Jul | 1 | 1 | 268 | 0 | 2 | 3 | 14 |
| 29 | 13-Jul | 2 | 3 | 244 | 0 | 10 | 31 | 28 |
| 30 | 20-Jul | 1 | 2 | 225 | 2 | 15 | 44 | 28 |
| 31 | 27-Jul | 5 | 4 | 246 | 8 | 65 | 89 | 42 |
| 32 | 3-Aug | 0 | 0 | 57 | 12 | 16 | 39 | 42 |
| 33 | 10-Aug | 0 | 0 | 18 | 8 | 4 | 20 | 42 |
| 34 | 17-Aug | 4 | 0 | 22 | 70 | 8 | 17 | 42 |
| 35 | 24-Aug | 0 | 0 | 28 | 208 | 8 | 25 | 42 |
| 36 | 31-Aug | 0 | 0 | 2 | 30 | 1 | 8 | 28 |
| 37 | 7-Sep | 0 | 0 | 1 | 80 | 0 | 1 | 84 |
| 38 | 14-Sep | 0 | 0 | 0 | 58 | 0 | 1 | 84 |
| 39 | 21-Sep | 0 | 0 | 0 | 49 | 0 | 0 | 84 |
| 40 | $28-\mathrm{Sep}$ | 0 | 0 | 0 | 2 | 0 | 0 | 46 |
| 41 | 5-Oct | 0 | 0 | 0 | 8 | 0 | 0 | 89 |
| 42 | $12-\mathrm{Oct}$ | 0 | 0 | 0 | 2 | 0 | 0 | 35 |
| Total Test Catch |  | 13 | 10 | 1,111 | 537 | 129 | 278 | 1,126 |

Appendix A. 18. Weekly catch, CPUE, and migratory timing of Tahltan, Tuya, and mainstem sockeye salmon stocks in the Stikine test fishery, 2008.

| Sex specific a | compositio | were calc |  | ock compo week is used. | $n$ of th | nales sa | d for egg d | ters was | anded | he catch |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | ortions |  |  | atch |  |  | CPU |  |  | Mig | ory Tim |  |
| Week | Tahltan | Tuya | nstem | Tahltan | Tuya | nstem | Tahltan | Tuya M | nstem | Total | Tahltan | Tuya | nstem |
| Drift gillnet |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 25 | 0.521 | 0.444 | 0.036 |  |  |  | 0.224 | 0.191 | 0.015 | 0.430 | 0.012 | 0.010 | 0.001 |
| 26 | 0.521 | 0.444 | 0.035 |  |  |  | 2.356 | 2.006 | 0.158 | 4.521 | 0.122 | 0.104 | 0.008 |
| 27 | 0.555 | 0.412 | 0.033 |  |  |  | 2.934 | 2.177 | 0.172 | 5.283 | 0.151 | 0.112 | 0.009 |
| 28 | 0.567 | 0.414 | 0.019 | 26 | 19 | 1 | 1.823 | 1.331 | 0.060 | 3.214 | 0.094 | 0.069 | 0.003 |
| 29 | 0.545 | 0.365 | 0.090 | 31 | 20 | 5 | 1.090 | 0.730 | 0.180 | 2.000 | 0.056 | 0.038 | 0.009 |
| 30 | 0.418 | 0.324 | 0.258 | 20 | 16 | 13 | 0.731 | 0.568 | 0.451 | 1.750 | 0.038 | 0.029 | 0.023 |
| 31 | 0.191 | 0.085 | 0.724 | 10 | 4 | 37 | 0.232 | 0.104 | 0.879 | 1.214 | 0.012 | 0.005 | 0.045 |
| 32 | 0.035 | 0.035 | 0.930 | 0 | 0 | 13 | 0.012 | 0.012 | 0.310 | 0.333 | 0.001 | 0.001 | 0.016 |
| 33 | 0.000 | 0.000 | 1.000 | 0 | 0 | 13 | 0.000 | 0.000 | 0.310 | 0.310 | 0.000 | 0.000 | 0.016 |
| 34 | 0.000 | 0.000 | 1.000 | 0 | 0 | 5 | 0.000 | 0.000 | 0.119 | 0.119 | 0.000 | 0.000 | 0.006 |
| 35 | 0.000 | 0.000 | 1.000 | 0 | 0 | 5 | 0.000 | 0.000 | 0.119 | 0.119 | 0.000 | 0.000 | 0.006 |
| 36 | 0.000 | 0.000 | 1.000 | 0 | 0 | 2 | 0.000 | 0.000 | 0.071 | 0.071 | 0.000 | 0.000 | 0.004 |
| 37 | 0.000 | 0.000 | 1.000 | 0 | 0 | 1 | 0.000 | 0.000 | 0.012 | 0.012 | 0.000 | 0.000 | 0.001 |
| Total |  |  |  | 87 | 60 | 94 | 9.402 | 7.118 | 2.856 | 19.377 |  |  |  |
| Proportion |  |  |  | 0.360 | 0.248 | 0.392 |  |  |  |  | 0.485 | 0.367 | 0.147 |
| Set gillnet |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 28 | 0.567 | 0.414 | 0.019 | 126 | 92 | 4 | 5.270 | 3.848 | 0.173 | 9.292 | 0.218 | 0.160 | 0.007 |
| 29 | 0.545 | 0.365 | 0.090 | 102 | 69 | 17 | 2.847 | 1.905 | 0.471 | 5.222 | 0.118 | 0.079 | 0.020 |
| 30 | 0.418 | 0.324 | 0.258 | 74 | 57 | 45 | 2.042 | 1.586 | 1.260 | 4.889 | 0.085 | 0.066 | 0.052 |
| 31 | 0.191 | 0.085 | 0.724 | 37 | 17 | 141 | 0.621 | 0.277 | 2.352 | 3.250 | 0.026 | 0.012 | 0.097 |
| 32 | 0.035 | 0.035 | 0.930 | 2 | 2 | 40 | 0.025 | 0.025 | 0.666 | 0.717 | 0.001 | 0.001 | 0.028 |
| 33 | 0.000 | 0.000 | 1.000 | 0 | 0 | 5 | 0.000 | 0.000 | 0.083 | 0.083 | 0.000 | 0.000 | 0.003 |
| 34 | 0.000 | 0.000 | 1.000 | 0 | 0 | 17 | 0.000 | 0.000 | 0.283 | 0.283 | 0.000 | 0.000 | 0.012 |
| 35 | 0.000 | 0.000 | 1.000 | 0 | 0 | 23 | 0.000 | 0.000 | 0.383 | 0.383 | 0.000 | 0.000 | 0.016 |
| Total |  |  |  | 341 | 236 | 293 | 10.805 | 7.642 | 5.672 | 24.119 |  |  |  |
| Proportion |  |  |  | 0.392 | 0.271 | 0.336 |  |  |  |  | 0.448 | 0.317 | 0.235 |
| Additional Drifts |  | no additional drifts in 2008 |  |  |  |  |  |  |  |  |  |  |  |
| Total Test Fishery Catches |  |  |  |  |  |  | Tahltan |  |  |  |  |  |  |
|  |  |  |  |  |  |  | Wild | Plant | Wild | Plant |  |  |  |
| 0 | 0.521 | 0.444 | 0.036 |  |  |  |  |  |  |  |  |  |  |
| 26 | 0.521 | 0.444 | 0.035 |  |  |  |  |  |  |  |  |  |  |
| 27 | 0.555 | 0.412 | 0.033 |  |  |  |  |  |  |  |  |  |  |
| 28 | 0.567 | 0.414 | 0.019 | 152 | 111 | 5 | 0.299 | 0.269 | 80 | 72 |  |  |  |
| 29 | 0.545 | 0.365 | 0.090 | 133 | 89 | 22 | 0.246 | 0.299 | 60 | 73 |  |  |  |
| 30 | 0.418 | 0.324 | 0.258 | 94 | 73 | 58 | 0.249 | 0.169 | 56 | 38 |  |  |  |
| 31 | 0.191 | 0.085 | 0.724 | 47 | 21 | 178 | 0.114 | 0.077 | 28 | 19 |  |  |  |
| 32 | 0.035 | 0.035 | 0.930 | 2 | 2 | 53 | 0.018 | 0.018 | 1 | 1 |  |  |  |
| 33 | 0.000 | 0.000 | 1.000 | 0 | 0 | 18 | 0.000 | 0.000 | 0 | 0 |  |  |  |
| 34 | 0.000 | 0.000 | 1.000 | 0 | 0 | 22 | 0.000 | 0.000 | 0 | 0 |  |  |  |
| 35 | 0.000 | 0.000 | 1.000 | 0 | 0 | 28 | 0.000 | 0.000 | 0 | 0 |  |  |  |
| 36 | 0.000 | 0.000 | 1.000 | 0 | 0 | 2 | 0.000 | 0.000 | 0 | 0 |  |  |  |
| 37 | 0.000 | 0.000 | 1.000 | 0 | 0 | 1 | 0.000 | 0.000 | 0 | 0 |  |  |  |
| 38 | 0.000 | 0.000 | 0.000 | 0 | 0 | 0 | 0.000 | 0.000 | 0 | 0 |  |  |  |
| Total |  |  |  | 428 | 296 | 387 |  |  | 225 | 203 |  |  |  |
| Proportion |  |  |  | 0.385 | 0.266 | 0.348 |  |  |  |  |  |  |  |

Appendix A. 19. Daily test catches taken from the upper Stikine test fishery located above the Tahltan River, 21-31 July, 2008.

| All Chinook released, assumed 50\% mortality. |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Date | Nets | Sockeye |  |  |  |  | Chinook Catch |
|  |  | Catch |  |  | Prop. Eggs |  |  |
|  |  | Female | Male | Total | <3.6mm |  |  |
| 21-Jul | 4 | 34 | 71 | 105 | 0.95 |  |  |
| 22-Jul | 4 | 99 | 109 | 208 | 0.90 |  |  |
| 23-Jul | 6 | 130 | 99 | 229 | 0.90 |  |  |
| 24-Jul | 4 | 149 | 103 | 252 | 0.82 |  |  |
| 25-Jul | 5 | 140 | 95 | 235 | 0.76 |  |  |
| 26-Jul | 5 | 115 | 105 | 220 | 0.67 |  |  |
| 27-Jul | 5 | 98 | 86 | 184 | 0.56 |  |  |
| 28-Jul | 5 | 68 | 56 | 124 | 0.54 |  |  |
| 29-Jul | 5 | 76 | 70 | 146 | 0.72 |  |  |
| 30-Jul | 5 | 101 | 79 | 180 | 0.72 |  |  |
| 31-Jul | 5 | 38 | 34 | 72 |  |  |  |
| Total |  | 1,048 | 907 | 1,955 |  |  | 14 |
| Stock Proportions |  |  |  |  |  |  |  |
| Date |  | Proportions |  |  | Tahltan |  |  |
|  |  | All Tahltan | Tuya | Mainstem | Wild | Planted |  |
| 21-Jul |  | 0.426 | 0.538 | 0.036 | 0.239 | 0.188 |  |
| 22-Jul |  | 0.120 | 0.684 | 0.196 | 0.067 | 0.053 |  |
| 23-Jul |  | 0.182 | 0.580 | 0.238 | 0.102 | 0.080 |  |
| 24-Jul |  | 0.139 | 0.592 | 0.269 | 0.078 | 0.061 |  |
| 25-Jul |  | 0.273 | 0.480 | 0.247 | 0.153 | 0.120 |  |
| 26-Jul |  | 0.364 | 0.300 | 0.336 | 0.204 | 0.160 |  |
| 27-Jul |  | 0.500 | 0.420 | 0.080 | 0.280 | 0.220 |  |
| 28-Jul |  | 0.232 | 0.429 | 0.340 | 0.130 | 0.102 |  |
| 29-Jul |  | 0.278 | 0.449 | 0.273 | 0.156 | 0.122 |  |
| 30-Jul |  | 0.364 | 0.400 | 0.236 | 0.204 | 0.160 |  |
| 31-Jul |  | 0.364 | 0.400 | 0.236 | 0.204 | 0.160 |  |
| Total |  | 0.278 | 0.489 | 0.233 | 0.156 | 0.122 |  |
| Stock Specific Catches |  |  |  |  |  |  |  |
|  |  | Catch |  |  | Tahltan |  |  |
| Date |  | All Tahltan | Tuya Mainstem |  | Wild | Planted |  |
| 21-Jul |  | 45 | 56 | 4 | 25 | 20 |  |
| 22-Jul |  | 25 | 142 | 41 | 14 | 11 |  |
| 23-Jul |  | 42 | 133 | 55 | 23 | 18 |  |
| 24-Jul |  | 35 | 149 | 68 | 20 | 15 |  |
| 25-Jul |  | 64 | 113 | 58 | 36 | 28 |  |
| 26-Jul |  | 80 | 66 | 74 | 45 | 35 |  |
| 27-Jul |  | 92 | 77 | 15 | 52 | 40 |  |
| 28-Jul |  | 29 | 53 | 42 | 16 | 13 |  |
| 29-Jul |  | 41 | 66 | 40 | 23 | 18 |  |
| 30-Jul |  | 65 | 72 | 43 | 37 | 29 |  |
| 31-Jul |  | 26 | 29 | 17 | 15 | 12 |  |
|  |  | 543 | 956 | 455 | 304 | 239 |  |

Appendix A. 20. Daily counts of adult sockeye salmon passing through Tahltan Lake weir, 2008.


Appendix A. 21. Daily counts of sockeye salmon smolt migrating through Tahltan Lake smolt weir, 2008.

| Date | Count | Cumulative |  | Date | Count | Cumulative |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Count | Percent |  |  | Count | Percent |
| 6-May | 0 | 0 | 0.0 | 30-May | 31,290 | 1,196,509 | 85.3 |
| 7-May | 0 | 0 | 0.0 | 31-May | 15,026 | 1,211,535 | 86.4 |
| 8-May | 0 | 0 | 0.0 | 1-Jun | 13,649 | 1,225,184 | 87.3 |
| 9-May | 0 | 0 | 0.0 | 2-Jun | 52,318 | 1,277,502 | 91.1 |
| 10-May | 0 | 0 | 0.0 | 3-Jun | 8,075 | 1,285,577 | 91.6 |
| 11-May | 0 | 0 | 0.0 | 4-Jun | 520 | 1,286,097 | 91.7 |
| 12-May | 2 | 2 | 0.0 | 5-Jun | 218 | 1,286,315 | 91.7 |
| 13-May | 3 | 5 | 0.0 | 6-Jun | 1,151 | 1,287,466 | 91.8 |
| 14-May | 2 | 7 | 0.0 | 7-Jun | 50,169 | 1,337,635 | 95.3 |
| 15-May | 3,052 | 3,059 | 0.2 | 8-Jun | 21,215 | 1,358,850 | 96.9 |
| 16-May | 5,991 | 9,050 | 0.6 | 9-Jun | 21,170 | 1,380,020 | 98.4 |
| 17-May | 346,788 | 355,838 | 25.4 | 10-Jun | 17,181 | 1,397,201 | 99.6 |
| 18-May | 250,164 | 606,002 | 43.2 | 11-Jun | 1,540 | 1,398,741 | 99.7 |
| 19-May | 6,949 | 612,951 | 43.7 | 12-Jun | 148 | 1,398,889 | 99.7 |
| 20-May | 8,795 | 621,746 | 44.3 | 13-Jun | 1,465 | 1,400,354 | 99.8 |
| 21-May | 77,277 | 699,023 | 49.8 | 14-Jun | 809 | 1,401,163 | 99.9 |
| 22-May | 746 | 699,769 | 49.9 | 15-Jun | 384 | 1,401,547 | 99.9 |
| 23-May | 115,012 | 814,781 | 58.1 | 16-Jun | 1,338 | 1,402,885 | 100.0 |
| 24-May | 180,242 | 995,023 | 70.9 | 17-Jun | 110 | 1,402,995 | 100.0 |
| 25-May | 7,016 | 1,002,039 | 71.4 |  |  |  |  |
| 26-May | 85,029 | 1,087,068 | 77.5 |  |  |  |  |
| 27-May | 9,890 | 1,096,958 | 78.2 |  |  |  |  |
| 28-May | 2,016 | 1,098,974 | 78.3 |  | Wild | 870,295 |  |
| 29-May | 66,245 | 1,165,219 | 83.1 |  | Hatchery | 532,700 |  |
| Total |  |  |  |  |  | 1,402,995 |  |

Appendix A. 22. Daily counts of adult Chinook salmon passing through Little Tahltan weir, 2008.

| Date | Large Chinook |  |  | Chinook non large |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Cumulative |  |  | Count | Cumulative |  |
|  | Count | Count | Percent |  | Count | Percent |
| 18-Jun |  |  |  |  |  |  |
| 19-Jun | 0 | 0 | 0.0 | 0 | 0 | 0.0 |
| 20-Jun | 0 | 0 | 0.0 | 0 | 0 | 0.0 |
| 21-Jun | 0 | 0 | 0.0 | 0 | 0 | 0.0 |
| 22-Jun | 0 | 0 | 0.0 | 0 | 0 | 0.0 |
| 23-Jun | 0 | 0 | 0.0 | 0 | 0 | 0.0 |
| 24-Jun | 0 | 0 | 0.0 | 0 | 0 | 0.0 |
| 25-Jun | 0 | 0 | 0.0 | 0 | 0 | 0.0 |
| 26-Jun | 0 | 0 | 0.0 | 0 | 0 | 0.0 |
| 27-Jun | 0 | 0 | 0.0 | 0 | 0 | 0.0 |
| 28-Jun | 0 | 0 | 0.0 | 0 | 0 | 0.0 |
| 29-Jun | 0 | 0 | 0.0 | 0 | 0 | 0.0 |
| 30-Jun | 0 | 0 | 0.0 | 0 | 0 | 0.0 |
| 1-Jul | 0 | 0 | 0.0 | 0 | 0 | 0.0 |
| 2-Jul | 0 | 0 | 0.0 | 0 | 0 | 0.0 |
| 3-Jul | 0 | 0 | 0.0 | 0 | 0 | 0.0 |
| 4-Jul | 0 | 0 | 0.0 | 0 | 0 | 0.0 |
| 5-Jul | 0 | 0 | 0.0 | 0 | 0 | 0.0 |
| 6-Jul | 3 | 3 | 0.1 | 0 | 0 | 0.0 |
| 7-Jul | 0 | 3 | 0.1 | 0 | 0 | 0.0 |
| 8-Jul | 0 | 3 | 0.1 | 0 | 0 | 0.0 |
| 9-Jul | 0 | 3 | 0.1 | 0 | 0 | 0.0 |
| 10-Jul | 0 | 3 | 0.1 | 0 | 0 | 0.0 |
| 11-Jul | 0 | 3 | 0.1 | 0 | 0 | 0.0 |
| 12-Jul | 2 | 5 | 0.2 | 0 | 0 | 0.0 |
| 13-Jul | 0 | 5 | 0.2 | 0 | 0 | 0.0 |
| 14-Jul | 75 | 80 | 3.0 | 6 | 6 | 4.3 |
| 15-Jul | 52 | 132 | 5.0 | 6 | 12 | 8.6 |
| 16-Jul | 108 | 240 | 9.0 | 12 | 24 | 17.3 |
| 17-Jul | 0 | 240 | 9.0 | 0 | 24 | 17.3 |
| 18-Jul | 90 | 330 | 12.4 | 5 | 29 | 20.9 |
| 19-Jul | 207 | 537 | 20.2 | 11 | 40 | 28.8 |
| 20-Jul | 1 | 538 | 20.2 | 0 | 40 | 28.8 |
| 21-Jul | 3 | 541 | 20.3 | 3 | 43 | 30.9 |
| 22-Jul | 37 | 578 | 21.7 | 1 | 44 | 31.7 |
| 23-Jul | 8 | 586 | 22.0 | 0 | 44 | 31.7 |
| 24-Jul | 334 | 920 | 34.5 | 25 | 69 | 49.6 |
| 25-Jul | 188 | 1,108 | 41.6 | 8 | 77 | 55.4 |
| 26-Jul | 357 | 1,465 | 55.0 | 15 | 92 | 66.2 |
| 27-Jul | 236 | 1,701 | 63.9 | 12 | 104 | 74.8 |
| 28-Jul | 12 | 1,713 | 64.3 | 7 | 111 | 79.9 |
| 29-Jul | 238 | 1,951 | 73.3 | 17 | 128 | 92.1 |
| 30-Jul | 30 | 1,981 | 74.4 | 0 | 128 | 92.1 |
| 31-Jul | 64 | 2,045 | 76.8 | 3 | 131 | 94.2 |
| 1-Aug | 125 | 2,170 | 81.5 | 2 | 133 | 95.7 |
| 2-Aug | 44 | 2,214 | 83.1 | 0 | 133 | 95.7 |
| 3-Aug | 57 | 2,271 | 85.3 | 1 | 134 | 96.4 |
| 4-Aug | 142 | 2,413 | 90.6 | 0 | 134 | 96.4 |
| 5-Aug | 88 | 2,501 | 93.9 | 1 | 135 | 97.1 |
| 6-Aug | 40 | 2,541 | 95.4 | 0 | 135 | 97.1 |
| 7-Aug | 19 | 2,560 | 96.1 | 2 | 137 | 98.6 |
| 8-Aug | 70 | 2,630 | 98.8 | 0 | 137 | 98.6 |
| 9-Aug | 6 | 2,636 | 99.0 | 0 | 137 | 98.6 |
| 10-Aug | 22 | 2,658 | 99.8 | 2 | 139 | 100.0 |
| 11-Aug | 4 | 2,662 | 100.0 | 0 | 139 | 100.0 |
| 12-Aug | 1 | 2,663 | 100.0 | 0 | 139 | 100.0 |
| Total Counted |  | 2,663 |  |  | 139 |  |
| Broodstock |  | 0 |  |  |  |  |
| Escapement |  | 2,663 |  |  | 139 |  |

Appendix B. 1. Salmon catch and effort in the Alaskan District 106 commercial drift gillnet fisheries, 1960-2008.

| Year | Catch |  |  |  |  | Effort |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Chinook | Sockeye | Coho | Pink | Chum | Permit Days | $\begin{aligned} & \text { Days } \\ & \text { Open } \\ & \hline \end{aligned}$ |
|  | Large non large |  |  |  |  |  |  |
| 1960 | 46 | 10,354 | 336 | 1,246 | 502 | 369 | 17 |
| 1961 | 416 | 20,614 | 14,934 | 124,236 | 64,479 | 1,737 | 57 |
| 1962 | 1,308 | 47,033 | 42,276 | 256,620 | 59,119 | 4,693 | 52 |
| 1963 | 1,560 | 80,767 | 52,103 | 514,596 | 90,103 | 5,589 | 51 |
| 1964 | 2,082 | 76,541 | 64,654 | 443,086 | 44,218 | 5,383 | 49 |
| 1965 | 1,802 | 87,749 | 75,728 | 625,848 | 27,658 | 4,507 | 51 |
| 1966 | 1,665 | 89,847 | 62,823 | 400,932 | 40,756 | 4,978 | 74 |
| 1967 | 1,318 | 86,385 | 17,670 | 91,609 | 26,370 | 2,511 | 27 |
| 1968 | 1,316 | 64,671 | 67,151 | 169,107 | 61,366 | 4,965 | 52 |
| 1969 | 877 | 70,318 | 10,280 | 197,073 | 10,903 | 2,112 | 31 |
| 1970 | 785 | 42,778 | 35,470 | 94,892 | 32,231 | 1,863 | 41 |
| 1971 | 1,336 | 53,202 | 48,085 | 527,975 | 37,680 | 2,774 | 47 |
| 1972 | 2,573 | 101,338 | 93,427 | 89,467 | 72,382 | 3,321 | 41 |
| 1973 | 1,931 | 71,995 | 38,447 | 303,621 | 87,729 | 3,300 | 26 |
| 1974 | 1,926 | 57,346 | 45,651 | 104,403 | 50,309 | 2,179 | 28 |
| 1975 | 2,587 | 32,051 | 30,962 | 203,015 | 23,968 | 1,649 | 18 |
| 1976 | 384 | 15,481 | 19,126 | 139,439 | 6,868 | 827 | 22 |
| 1977 | 671 | 67,023 | 8,401 | 419,107 | 13,300 | 1,381 | 28 |
| 1978 | 274 | 41,574 | 55,578 | 224,715 | 16,545 | 1,510 | 27 |
| 1979 | 2,720 | 66,373 | 28,083 | 648,212 | 35,507 | 2,703 | 31 |
| 1980 | 580 | 107,422 | 16,666 | 45,662 | 26,291 | 1,324 | 25 |
| 1981 | 1,565 | 182,001 | 22,614 | 437,573 | 34,296 | 2,926 | 26 |
| 1982 | 1,648 | 193,798 | 31,481 | 25,533 | 18,646 | 1,700 | 23 |
| 1983 | 567 | 48,842 | 62,442 | 208,290 | 20,144 | 1,453 | 31 |
| 1984 | 892 | 91,653 | 41,359 | 343,255 | 70,258 | 1,890 | 31 |
| 1985 | 1,687 | 264,987 | 91,188 | 584,953 | 69,673 | 2,673 | 31 |
| 1986 | 1,704 | 145,709 | 194,912 | 308,484 | 82,289 | 3,510 | 31 |
| 1987 | 836 | 136,427 | 34,534 | 243,482 | 42,025 | 1,767 | 20 |
| 1988 | 1,104 | 92,529 | 13,103 | 69,559 | 69,620 | 1,495 | 19 |
| 1989 | 1,544 | 192,734 | 92,385 | 1,101,194 | 67,351 | 3,222 | 34 |
| 1990 | 2,108 | 185,805 | 164,235 | 319,186 | 73,232 | 3,502 | 34 |
| 1991 | 2,055 | 144,104 | 198,160 | 133,566 | 124,630 | 3,620 | 39 |
| 1992 | 1,355 | 203,155 | 298,935 | 94,248 | 140,468 | 4,230 | 40 |
| 1993 | 992 | 205,955 | 231,038 | 537,960 | 134,601 | 4,353 | 38 |
| 1994 | 754 | 211,048 | 267,862 | 179,994 | 176,026 | 4,468 | 43 |
| 1995 | 951 | 207,298 | 170,561 | 448,163 | 300,078 | 3,657 | 34 |
| 1996 | 644 | 311,100 | 223,640 | 188,035 | 283,290 | 5,290 | 46 |
| 1997 | 1,075 | 168,518 | 77,550 | 789,051 | 186,456 | 3,668 | 39 |
| 1998 | 518 | 113,435 | 273,197 | 502,655 | 332,022 | 4,398 | 43 |
| 1999 | 518 | 104,878 | 203,262 | 490,716 | 448,367 | 4,943 | 50 |
| 2000 | 1,220 | 90,076 | 96,207 | 156,619 | 199,836 | 2,409 | 33 |
| 2001 | 1,057 | 164,013 | 188,465 | 825,330 | 282,910 | 3,854 | 50 |
| 2002 | 446 | 56,135 | 226,560 | 82,951 | 112,541 | 5,299 | 47 |
| 2003 | 422 | 116,904 | 212,057 | 470,697 | 300,253 | 6,744 | 59 |
| 2004 | 2,735 | 116,259 | 138,631 | 245,237 | 110,574 | 8,189 | 55 |
| 2005 | 1,526 46 | 110,192 | 114,440 | 461,187 | 198,564 | 9,634 | 53 |
| 2006 | 1,737 211 | 91,980 | 69,015 | 149,907 | 268,436 | 11,079 | 45 |
| 2007 | 1,852 292 | 92,481 | 80,573 | 383,355 | 297,998 | 2,741 | 49 |
| Averages |  |  |  |  |  |  |  |
| 60-07 | 1,285 | 111,102 | 96,797 | 320,959 | 109,851 | 3,591 | 38.3 |
| 98-07 | 1,203 | 105,635 | 160,241 | 376,865 | 255,150 | 5,929 | 48.4 |
| 2008 | 1,049 570 | 30,533 | 116,074 | 90,217 | 102,156 | 2,196 | 46.0 |

Appendix B.1. Page 2 of 2.
Alaska Hatchery Contributions for Large Chinook and Coho

| Large Chinook |  |  | Coho |  |
| :--- | ---: | ---: | ---: | ---: |
|  | Hatchery | Wild | Hatchery | Wild |
| 1989 | 512 | 1,032 | 5,029 | 87,356 |
| 1990 | 1,009 | 1,099 | 50,354 | 113,881 |
| 1991 | 608 | 1,447 | 64,067 | 134,093 |
| 1992 | 658 | 697 | 112,824 | 186,111 |
| 1993 | 305 | 687 | 77,914 | 153,124 |
| 1994 | 402 | 352 | 36,805 | 231,057 |
| 1995 | 353 | 598 | 27,333 | 143,228 |
| 1996 | 324 | 320 | 55,218 | 168,422 |
| 1997 | 369 | 706 | 19,479 | 58,071 |
| 1998 | 290 | 228 | 101,129 | 172,068 |
| 1999 | 189 | 329 | 82,828 | 120,434 |
| 2000 | 790 | 430 | 48,169 | 48,038 |
| 2001 | 446 | 611 | 67,378 | 121,087 |
| 2002 | 161 | 285 | 78,485 | 148,075 |
| 2003 | 192 | 230 | 93,454 | 118,603 |
| 2004 | 1,281 | 1,454 | 49,501 | 89,130 |
| 2005 | 657 | 869 | 30,727 | 83,713 |
| 2006 | 998 | 739 | 22,265 | 46,750 |
| 2007 | 1,415 | 437 | 34,158 | 46,415 |
| Averages |  |  |  |  |
| $89-07$ | 577 |  | 55,637 | 51,807 |
| 2008 | 380 | 669 | 64,267 |  |

Appendix B. 2. Stock proportions and catches of sockeye salmon in the Alaskan District 106 commercial drift gillnet fisheries, 1982-2008.

| Year | Alaska | Canada | Stikine |  |  |  | Tahltan |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Tahltan | Tuya | ainstem | Total | Wild | Planted |
| Proportions |  |  |  |  |  |  |  |  |
| 1982 | 0.486 | 0.319 |  |  |  | 0.194 |  |  |
| 1983 | 0.668 | 0.217 | 0.103 |  | 0.013 | 0.116 |  |  |
| 1984 | 0.658 | 0.269 | 0.029 |  | 0.044 | 0.074 |  |  |
| 1985 | 0.479 | 0.419 | 0.091 |  | 0.011 | 0.102 |  |  |
| 1986 | 0.689 | 0.293 | 0.014 |  | 0.004 | 0.018 |  |  |
| 1987 | 0.827 | 0.155 | 0.010 |  | 0.007 | 0.017 |  |  |
| 1988 | 0.874 | 0.106 | 0.020 |  | 0.001 | 0.020 |  |  |
| 1989 | 0.657 | 0.311 | 0.006 |  | 0.026 | 0.032 |  |  |
| 1990 | 0.608 | 0.371 | 0.005 |  | 0.016 | 0.021 |  |  |
| 1991 | 0.545 | 0.331 | 0.100 |  | 0.024 | 0.124 |  |  |
| 1992 | 0.595 | 0.232 | 0.070 |  | 0.102 | 0.172 |  |  |
| 1993 | 0.400 | 0.338 | 0.098 |  | 0.164 | 0.262 |  |  |
| 1994 | 0.579 | 0.254 | 0.142 |  | 0.025 | 0.167 | 0.108 | 0.033 |
| 1995 | 0.316 | 0.560 | 0.081 | 0.001 | 0.043 | 0.124 | 0.044 | 0.036 |
| 1996 | 0.531 | 0.268 | 0.166 | 0.028 | 0.007 | 0.201 | 0.147 | 0.019 |
| 1997 | 0.576 | 0.271 | 0.058 | 0.079 | 0.016 | 0.153 | 0.037 | 0.021 |
| 1998 | 0.598 | 0.307 | 0.015 | 0.080 | 0.000 | 0.095 | 0.013 | 0.002 |
| 1999 | 0.671 | 0.092 | 0.057 | 0.061 | 0.118 | 0.237 | 0.054 | 0.003 |
| 2000 | 0.643 | 0.233 | 0.020 | 0.085 | 0.019 | 0.124 | 0.017 | 0.003 |
| 2001 | 0.525 | 0.332 | 0.039 | 0.079 | 0.025 | 0.143 | 0.029 | 0.010 |
| 2002 | 0.758 | 0.098 | 0.037 | 0.072 | 0.035 | 0.144 | 0.024 | 0.012 |
| 2003 | 0.742 | 0.096 | 0.075 | 0.053 | 0.035 | 0.162 | 0.039 | 0.036 |
| 2004 | 0.499 | 0.222 | 0.241 | 0.020 | 0.018 | 0.279 | 0.144 | 0.097 |
| 2005 | 0.474 | 0.317 | 0.182 | 0.000 | 0.027 | 0.209 | 0.088 | 0.094 |
| 2006 | 0.364 | 0.362 | 0.203 | 0.056 | 0.016 | 0.274 | 0.090 | 0.113 |
| 2007 | 0.471 | 0.120 | 0.322 | 0.082 | 0.005 | 0.409 | 0.122 | 0.200 |
| Averages |  |  |  |  |  |  |  |  |
| 83-07 | 0.590 | 0.263 | 0.087 | 0.053 | 0.032 | 0.147 | 0.068 | 0.048 |
| 98-07 | 0.574 | 0.218 | 0.119 | 0.059 | 0.030 | 0.208 | 0.062 | 0.057 |
| 2008 | 0.281 | 0.164 | 0.165 | 0.238 | 0.152 | 0.555 | 0.091 | 0.073 |
| Catches |  |  |  |  |  |  |  |  |
| 1982 | 94,275 | 61,853 |  |  |  | 37,670 |  |  |
| 1983 | 32,603 | 10,589 | 5,020 |  | 631 | 5,650 |  |  |
| 1984 | 60,278 | 24,624 | 2,673 |  | 4,078 | 6,751 |  |  |
| 1985 | 126,914 | 111,015 | 24,045 |  | 3,013 | 27,058 |  |  |
| 1986 | 100,337 | 42,685 | 2,081 |  | 606 | 2,687 |  |  |
| 1987 | 112,893 | 21,190 | 1,376 |  | 968 | 2,344 |  |  |
| 1988 | 80,868 | 9,784 | 1,813 |  | 64 | 1,877 |  |  |
| 1989 | 126,603 | 59,959 | 1,111 |  | 5,061 | 6,172 |  |  |
| 1990 | 112,983 | 68,921 | 915 |  | 2,986 | 3,901 |  |  |
| 1991 | 78,533 | 47,707 | 14,364 |  | 3,501 | 17,864 |  |  |
| 1992 | 120,977 | 47,207 | 14,187 |  | 20,784 | 34,971 |  |  |
| 1993 | 82,300 | 69,617 | 20,204 |  | 33,833 | 54,037 |  |  |
| 1994 | 122,118 | 53,683 | 29,876 |  | 5,371 | 35,247 | 22,857 | 7,019 |
| 1995 | 65,544 | 116,075 | 16,715 | 125 | 8,839 | 25,679 | 9,182 | 7,533 |
| 1996 | 165,221 | 83,271 | 51,598 | 8,821 | 2,189 | 62,608 | 45,826 | 5,772 |
| 1997 | 97,101 | 45,665 | 9,764 | 13,232 | 2,756 | 25,752 | 6,281 | 3,483 |
| 1998 | 67,890 | 34,811 | 1,678 | 9,020 | 36 | 10,734 | 1,477 | 201 |
| 1999 | 70,363 | 9,696 | 5,988 | 6,427 | 12,404 | 24,819 | 5,700 | 288 |
| 2000 | 57,935 | 20,996 | 1,827 | 7,612 | 1,706 | 11,145 | 1,573 | 254 |
| 2001 | 86,078 | 54,512 | 6,339 | 12,965 | 4,119 | 23,423 | 4,747 | 1,592 |
| 2002 | 42,573 | 5,487 | 2,055 | 4,058 | 1,962 | 8,075 | 1,375 | 680 |
| 2003 | 86,720 | 11,264 | 8,736 | 6,145 | 4,039 | 18,920 | 4,550 | 4,186 |
| 2004 | 58,006 | 25,787 | 28,027 | 2,382 | 2,058 | 32,467 | 16,721 | 11,306 |
| 2005 | 52,192 | 34,952 | 20,080 | 0 | 2,968 | 23,048 | 9,724 | 10,356 |
| 2006 | 33,454 | 33,337 | 18,640 | 5,122 | 1,427 | 25,189 | 8,277 | 10,363 |
| 2007 | 43,523 | 11,102 | 29,759 | 7,612 | 484 | 37,855 | 11,253 | 18,506 |
| Averages |  |  |  |  |  |  |  |  |
| 83-07 | 83,360 | 42,157 | 12,755 | 6,425 | 5,035 | 21,131 | 10,682 | 5,824 |
| 98-07 | 59,873 | 24,194 | 12,313 | 6,134 | 3,120 | 21,568 | 6,540 | 5,773 |
| 2008 | 8,593 | 4,997 | 5,031 | 7,261 | 4,651 | 16,943 | 2,791 | 2,240 |

Appendix B. 3. Salmon catch and effort in the Alaskan Subdistrict 106-41/42 (Sumner Strait) commercial drift gillnet fishery, 1960-2008.

| Year | Catch |  |  |  |  | Effort |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  | Permit Days | $\begin{aligned} & \hline \text { Days } \\ & \text { Open } \\ & \hline \end{aligned}$ |
|  | Chinook | Sockeye | Coho | Pink | Chum |  |  |
| 1960 | 24 | 9,005 | 277 | 1,103 | 362 | 251 | 17 |
| 1961 | 75 | 9,488 | 1,851 | 26,435 | 9,657 | 359 | 48 |
| 1962 | 131 | 19,692 | 6,548 | 45,987 | 9,544 | 811 | 44 |
| 1963 | 310 | 45,305 | 15,727 | 135,503 | 50,380 | 2,311 | 47 |
| 1964 | 316 | 52,943 | 27,338 | 183,402 | 22,913 | 2,344 | 49 |
| 1965 | 679 | 58,736 | 30,570 | 162,271 | 15,763 | 1,658 | 51 |
| 1966 | 690 | 65,721 | 30,792 | 96,287 | 24,235 | 2,080 | 74 |
| 1967 | 668 | 60,148 | 10,573 | 52,284 | 19,626 | 1,463 | 27 |
| 1968 | 1,010 | 50,212 | 46,111 | 82,012 | 39,001 | 2,997 | 52 |
| 1969 | 607 | 46,258 | 6,094 | 92,075 | 6,393 | 1,147 | 31 |
| 1970 | 420 | 26,812 | 15,153 | 29,102 | 18,092 | 905 | 41 |
| 1971 | 671 | 33,991 | 24,727 | 283,739 | 19,329 | 1,619 | 50 |
| 1972 | 1,747 | 74,745 | 60,827 | 40,644 | 46,511 | 2,152 | 41 |
| 1973 | 1,540 | 55,254 | 24,921 | 160,297 | 62,486 | 2,253 | 26 |
| 1974 | 1,342 | 46,760 | 28,889 | 57,296 | 38,045 | 1,579 | 28 |
| 1975 | 467 | 19,319 | 4,650 | 29,340 | 7,762 | 515 | 17 |
| 1976 | 237 | 9,319 | 10,367 | 20,251 | 2,301 | 366 | 19 |
| 1977 | 202 | 47,408 | 1,819 | 51,038 | 4,240 | 447 | 17 |
| 1978 | 274 | 1,422 | 26,762 | 9,546 | 3,142 | 389 | 27 |
| 1979 | 458 | 34,807 | 12,087 | 176,395 | 16,816 | 952 | 25 |
| 1980 | 205 | 48,434 | 10,894 | 17,068 | 15,176 | 596 | 16 |
| 1981 | 598 | 132,293 | 13,161 | 220,194 | 25,682 | 1,732 | 25 |
| 1982 | 648 | 121,563 | 21,193 | 10,392 | 11,891 | 1,083 | 22 |
| 1983 | 268 | 28,153 | 41,208 | 74,347 | 13,001 | 875 | 32 |
| 1984 | 136 | 27,372 | 19,124 | 99,807 | 28,461 | 587 | 32 |
| 1985 | 538 | 172,088 | 50,577 | 319,379 | 45,566 | 1,726 | 38 |
| 1986 | 421 | 85,247 | 104,328 | 105,347 | 48,471 | 1,896 | 32 |
| 1987 | 441 | 79,165 | 17,776 | 117,059 | 25,877 | 978 | 20 |
| 1988 | 452 | 57,337 | 6,349 | 10,894 | 42,210 | 815 | 18 |
| 1989 | 581 | 107,886 | 55,671 | 418,044 | 40,156 | 1,716 | 34 |
| 1990 | 759 | 104,922 | 94,526 | 84,543 | 42,474 | 1,827 | 34 |
| 1991 | 844 | 89,355 | 136,990 | 64,334 | 85,435 | 2,118 | 39 |
| 1992 | 743 | 146,608 | 190,885 | 38,483 | 100,666 | 2,630 | 40 |
| 1993 | 458 | 129,859 | 134,902 | 296,986 | 96,995 | 2,728 | 38 |
| 1994 | 456 | 157,526 | 191,695 | 66,225 | 125,826 | 2,988 | 43 |
| 1995 | 663 | 133,713 | 109,613 | 154,004 | 189,369 | 2,349 | 34 |
| 1996 | 487 | 223,784 | 159,319 | 70,620 | 162,872 | 3,623 | 46 |
| 1997 | 829 | 118,675 | 52,917 | 414,619 | 100,612 | 2,402 | 39 |
| 1998 | 334 | 79,052 | 175,124 | 196,403 | 200,892 | 2,999 | 43 |
| 1999 | 397 | 73,378 | 130,083 | 277,194 | 284,807 | 3,294 | 50 |
| 2000 | 558 | 57,863 | 54,232 | 80,014 | 120,111 | 1,522 | 33 |
| 2001 | 516 | 99,219 | 133,956 | 345,385 | 168,265 | 2,406 | 50 |
| 2002 | 216 | 39,030 | 163,727 | 41,086 | 71,333 | 1,844 | 47 |
| 2003 | 254 | 88,595 | 147,674 | 290,508 | 238,734 | 2,763 | 59 |
| 2004 | 1,508 | 85,929 | 80,083 | 132,627 | 72,317 | 1,845 | 55 |
| 2005 | 988 | 83,647 | 77,059 | 293,017 | 151,785 | 2,000 | 53 |
| 2006 | 1,121 | 58,359 | 38,584 | 34,103 | 159,436 | 1,314 | 45 |
| 2007 | 1,112 | 72,412 | 51,557 | 160,473 | 199,284 | 1,868 | 49 |
| Averages |  |  |  |  |  |  |  |
| 60-07 | 592 | 72,267 | 59,360 | 128,503 | 68,423 | 1,690 | 37.4 |
| 98-07 | 700 | 73,748 | 105,208 | 185,081 | 166,696 | 2,186 | 48.4 |
| 2008 | 538 | 20,652 | 75,540 | 19,783 | 64,256 | 1,447 | 46.0 |

Appendix B. 4. Stock proportions and catches of sockeye salmon in the Alaskan Subdistrict 106-41/42 (Sumner Strait) commercial drift gillnet fishery, 1985-2008.

| Data based on scale pattern analysis. |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Alaska | Canada | Stikine |  |  |  | Tahltan |  |
|  |  |  | Tahltan | Tuya M | Mainstem | Total | Wild | Planted |
| Proportions |  |  |  |  |  |  |  |  |
| 1985 | 0.480 | 0.401 | 0.109 |  | 0.010 | 0.119 |  |  |
| 1986 | 0.662 | 0.308 | 0.024 |  | 0.006 | 0.030 |  |  |
| 1987 | 0.816 | 0.166 | 0.015 |  | 0.003 | 0.018 |  |  |
| 1988 | 0.868 | 0.112 | 0.019 |  | 0.001 | 0.020 |  |  |
| 1989 | 0.653 | 0.303 | 0.009 |  | 0.036 | 0.044 |  |  |
| 1990 | 0.579 | 0.395 | 0.008 |  | 0.018 | 0.026 |  |  |
| 1991 | 0.460 | 0.377 | 0.129 |  | 0.034 | 0.163 |  |  |
| 1992 | 0.582 | 0.241 | 0.088 |  | 0.089 | 0.177 |  |  |
| 1993 | 0.369 | 0.327 | 0.134 |  | 0.169 | 0.304 |  |  |
| 1994 | 0.531 | 0.271 | 0.166 |  | 0.032 | 0.198 | 0.127 | 0.040 |
| 1995 | 0.287 | 0.565 | 0.099 | 0.001 | 0.048 | 0.149 | 0.049 | 0.051 |
| 1996 | 0.479 | 0.245 | 0.228 | 0.039 | 0.009 | 0.276 | 0.203 | 0.025 |
| 1997 | 0.538 | 0.269 | 0.079 | 0.101 | 0.014 | 0.193 | 0.056 | 0.023 |
| 1998 | 0.550 | 0.337 | 0.017 | 0.096 | 0.000 | 0.113 | 0.014 | 0.003 |
| 1999 | 0.618 | 0.101 | 0.074 | 0.079 | 0.128 | 0.281 | 0.070 | 0.004 |
| 2000 | 0.611 | 0.223 | 0.028 | 0.116 | 0.023 | 0.167 | 0.024 | 0.004 |
| 2001 | 0.493 | 0.336 | 0.032 | 0.112 | 0.028 | 0.171 | 0.017 | 0.015 |
| 2002 | 0.730 | 0.101 | 0.049 | 0.087 | 0.034 | 0.169 | 0.031 | 0.017 |
| 2003 | 0.700 | 0.095 | 0.097 | 0.068 | 0.040 | 0.204 | 0.050 | 0.047 |
| 2004 | 0.413 | 0.227 | 0.315 | 0.026 | 0.018 | 0.359 | 0.191 | 0.125 |
| 2005 | 0.405 | 0.338 | 0.227 | 0.000 | 0.029 | 0.256 | 0.104 | 0.123 |
| 2006 | 0.270 | 0.332 | 0.304 | 0.078 | 0.016 | 0.398 | 0.130 | 0.174 |
| 2007 | 0.367 | 0.126 | 0.403 | 0.099 | 0.005 | 0.507 | 0.152 | 0.251 |
| Averages |  |  |  |  |  |  |  |  |
| 85-07 | 0.542 | 0.269 | 0.115 | 0.069 | 0.034 | 0.189 | 0.087 | 0.064 |
| 98-07 | 0.516 | 0.222 | 0.155 | 0.076 | 0.032 | 0.263 | 0.078 | 0.076 |
| 2008 | 0.177 | 0.151 | 0.168 | 0.336 | 0.169 | 0.672 | 0.062 | 0.106 |
| Catches |  |  |  |  |  |  |  |  |
| 1985 | 82,563 | 68,962 | 18,801 |  | 1,762 | 20,563 |  |  |
| 1986 | 56,462 | 26,214 | 2,070 |  | 501 | 2,571 |  |  |
| 1987 | 64,582 | 13,170 | 1,155 |  | 258 | 1,413 |  |  |
| 1988 | 49,776 | 6,426 | 1,071 |  | 64 | 1,135 |  |  |
| 1989 | 70,436 | 32,663 | 957 |  | 3,830 | 4,787 |  |  |
| 1990 | 60,795 | 41,415 | 801 |  | 1,911 | 2,712 |  |  |
| 1991 | 41,123 | 33,644 | 11,541 |  | 3,048 | 14,588 |  |  |
| 1992 | 85,364 | 35,277 | 12,961 |  | 13,005 | 25,967 |  |  |
| 1993 | 47,970 | 42,450 | 17,446 |  | 21,992 | 39,438 |  |  |
| 1994 | 83,692 | 42,620 | 26,164 |  | 5,050 | 31,214 | 19,934 | 6,230 |
| 1995 | 38,343 | 75,505 | 13,292 | 125 | 6,448 | 19,865 | 6,514 | 6,778 |
| 1996 | 107,193 | 54,823 | 50,924 | 8,731 | 2,113 | 61,768 | 45,340 | 5,584 |
| 1997 | 63,827 | 31,892 | 9,327 | 11,937 | 1,692 | 22,956 | 6,594 | 2,733 |
| 1998 | 43,479 | 26,661 | 1,326 | 7,555 | 31 | 8,912 | 1,125 | 201 |
| 1999 | 45,335 | 7,420 | 5,425 | 5,786 | 9,412 | 20,623 | 5,159 | 266 |
| 2000 | 35,327 | 12,875 | 1,617 | 6,727 | 1,317 | 9,661 | 1,363 | 254 |
| 2001 | 48,906 | 33,309 | 3,164 | 11,063 | 2,777 | 17,004 | 1,723 | 1,441 |
| 2002 | 28,487 | 3,928 | 1,896 | 3,394 | 1,325 | 6,615 | 1,216 | 680 |
| 2003 | 62,037 | 8,446 | 8,595 | 6,016 | 3,501 | 18,112 | 4,434 | 4,161 |
| 2004 | 35,521 | 19,534 | 27,098 | 2,244 | 1,532 | 30,874 | 16,385 | 10,713 |
| 2005 | 33,909 | 28,312 | 18,979 | 0 | 2,447 | 21,426 | 8,687 | 10,292 |
| 2006 | 15,750 | 19,394 | 17,729 | 4,553 | 933 | 23,215 | 7,603 | 10,126 |
| 2007 | 26,549 | 9,142 | 29,196 | 7,182 | 342 | 36,720 | 10,998 | 18,198 |
| Averages |  |  |  |  |  |  |  |  |
| 85-07 | 53,366 | 29,308 | 12,241 | 5,793 | 3,708 | 19,223 |  |  |
| 98-07 | 37,530 | 16,902 | 11,503 | 5,452 | 2,362 | 19,316 | 5,869 | 5,633 |
| $\underline{2008}$ | 3,649 | 3,117 | 3,467 | 6,936 | 3,483 | 13,886 | 1,271 | 2,196 |

Appendix B. 5. Salmon catch and effort in the Alaskan Subdistrict 106-30 (Clarence Strait) commercial drift gillnet fishery, 1960-2008.

| Year | Catch |  |  |  |  | Effort |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  | Permit Days | $\begin{aligned} & \hline \text { Days } \\ & \text { Open } \\ & \hline \end{aligned}$ |
|  | Chinook | Sockeye | Coho | Pink | Chum |  |  |
| 1960 | 22 | 1,349 | 59 | 143 | 140 | 118 | 13 |
| 1961 | 341 | 11,126 | 13,083 | 97,801 | 54,822 | 1,378 | 57 |
| 1962 | 1,177 | 27,341 | 35,728 | 210,633 | 49,575 | 3,882 | 52 |
| 1963 | 1,250 | 35,462 | 36,376 | 379,093 | 39,723 | 3,278 | 51 |
| 1964 | 1,766 | 23,598 | 37,316 | 259,684 | 21,305 | 3,039 | 49 |
| 1965 | 1,123 | 29,013 | 45,158 | 463,577 | 11,895 | 2,849 | 51 |
| 1966 | 975 | 24,126 | 32,031 | 304,645 | 16,521 | 2,898 | 74 |
| 1967 | 650 | 26,237 | 7,097 | 39,325 | 6,744 | 1,048 | 27 |
| 1968 | 306 | 14,459 | 21,040 | 87,095 | 22,365 | 1,968 | 52 |
| 1969 | 270 | 24,060 | 4,186 | 104,998 | 4,510 | 1,026 | 31 |
| 1970 | 365 | 15,966 | 20,317 | 65,790 | 14,139 | 1,025 | 41 |
| 1971 | 665 | 19,211 | 23,358 | 244,236 | 18,351 | 1,517 | 50 |
| 1972 | 826 | 26,593 | 32,600 | 48,823 | 25,871 | 1,276 | 41 |
| 1973 | 391 | 16,741 | 13,526 | 143,324 | 25,243 | 1,303 | 26 |
| 1974 | 584 | 10,586 | 16,762 | 47,107 | 12,264 | 712 | 28 |
| 1975 | 2,120 | 12,732 | 26,312 | 173,675 | 16,206 | 1,159 | 9 |
| 1976 | 147 | 6,162 | 8,759 | 119,188 | 4,567 | 527 | 21 |
| 1977 | 469 | 19,615 | 6,582 | 368,069 | 9,060 | 940 | 21 |
| 1978 |  | 40,152 | 28,816 | 215,169 | 13,403 | 1,148 | 16 |
| 1979 | 2,262 | 31,566 | 15,996 | 471,817 | 18,691 | 1,848 | 25 |
| 1980 | 375 | 58,988 | 5,772 | 28,594 | 11,115 | 749 | 25 |
| 1981 | 967 | 49,708 | 9,453 | 217,379 | 8,614 | 1,321 | 26 |
| 1982 | 1,000 | 72,235 | 10,288 | 15,141 | 6,755 | 647 | 21 |
| 1983 | 299 | 20,689 | 21,234 | 133,943 | 7,143 | 589 | 37 |
| 1984 | 756 | 64,281 | 22,235 | 243,448 | 41,797 | 1,236 | 24 |
| 1985 | 1,149 | 92,899 | 40,611 | 265,574 | 24,107 | 1,372 | 36 |
| 1986 | 1,283 | 60,462 | 90,584 | 203,137 | 33,818 | 1,664 | 31 |
| 1987 | 395 | 57,262 | 16,758 | 126,423 | 16,148 | 799 | 20 |
| 1988 | 652 | 35,192 | 6,754 | 58,665 | 27,410 | 682 | 19 |
| 1989 | 963 | 84,848 | 36,714 | 683,150 | 27,195 | 1,583 | 34 |
| 1990 | 1,349 | 80,883 | 69,709 | 234,643 | 30,758 | 1,676 | 34 |
| 1991 | 1,211 | 54,749 | 61,170 | 69,232 | 39,195 | 1,505 | 39 |
| 1992 | 612 | 56,547 | 108,050 | 55,765 | 39,802 | 1,603 | 40 |
| 1993 | 534 | 76,096 | 96,136 | 240,974 | 37,606 | 1,646 | 38 |
| 1994 | 298 | 53,522 | 76,167 | 113,769 | 50,200 | 1,606 | 43 |
| 1995 | 288 | 73,585 | 60,948 | 294,159 | 110,709 | 1,422 | 34 |
| 1996 | 157 | 87,316 | 64,321 | 117,415 | 120,418 | 1,580 | 39 |
| 1997 | 246 | 49,843 | 24,633 | 374,432 | 85,844 | 1,329 | 38 |
| 1998 | 184 | 34,383 | 98,073 | 306,252 | 131,130 | 1,522 | 43 |
| 1999 | 121 | 31,500 | 73,179 | 213,522 | 163,560 | 1,766 | 49 |
| 2000 | 662 | 32,213 | 41,975 | 76,605 | 79,725 | 934 | 33 |
| 2001 | 541 | 64,794 | 54,509 | 479,945 | 114,645 | 1,573 | 50 |
| 2002 | 230 | 17,105 | 62,833 | 41,865 | 41,208 | 896 | 47 |
| 2003 | 168 | 28,309 | 64,383 | 180,189 | 61,519 | 1,158 | 59 |
| 2004 | 1,227 | 30,330 | 58,548 | 112,610 | 38,257 | 953 | 55 |
| 2005 | 538 | 26,545 | 37,381 | 168,170 | 46,779 | 1,005 | 53 |
| 2006 | 616 | 33,621 | 30,431 | 115,804 | 109,000 | 761 | 45 |
| 2007 | 740 | 20,069 | 29,016 | 222,882 | 98,714 | 927 | 49 |
| Averages |  |  |  |  |  |  |  |
| 60-07 | 708 | 38,835 | 37,437 | 192,456 | 41,428 | 1,405 | 37.4 |
| 98-07 | 503 | 31,887 | 55,033 | 191,784 | 88,454 | 1,150 | 48.3 |
| 2008 | 511 | 9,881 | 40,534 | 70,434 | 37,900 | 799 | 46.0 |

Appendix B. 6. Stock proportions and catches of sockeye salmon in the Alaskan Subdistrict 106-30 (Clarence Strait) commercial drift gillnet fishery, 1985-2008.

| Data based on scale pattern analysis. |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Alaska | Canada ${ }^{\text {all Tahltan }}$ |  | Stikine |  |  | Tahltan |  |
|  |  |  |  | Tuya | ainstem | Total | Wild | Planted |
| Proportions |  |  |  |  |  |  |  |  |
| 1985 | 0.477 | 0.453 | 0.056 |  | 0.013 | 0.070 |  |  |
| 1986 | 0.726 | 0.272 | 0.000 |  | 0.002 | 0.002 |  |  |
| 1987 | 0.844 | 0.140 | 0.004 |  | 0.012 | 0.016 |  |  |
| 1988 | 0.883 | 0.095 | 0.021 |  | 0.000 | 0.021 |  |  |
| 1989 | 0.662 | 0.322 | 0.002 |  | 0.015 | 0.016 |  |  |
| 1990 | 0.645 | 0.340 | 0.001 |  | 0.013 | 0.015 |  |  |
| 1991 | 0.683 | 0.257 | 0.052 |  | 0.008 | 0.060 |  |  |
| 1992 | 0.630 | 0.211 | 0.022 |  | 0.138 | 0.159 |  |  |
| 1993 | 0.451 | 0.357 | 0.036 |  | 0.156 | 0.192 |  |  |
| 1994 | 0.718 | 0.207 | 0.069 |  | 0.006 | 0.075 | 0.055 | 0.015 |
| 1995 | 0.370 | 0.551 | 0.047 | 0.000 | 0.032 | 0.079 | 0.036 | 0.010 |
| 1996 | 0.665 | 0.326 | 0.008 | 0.001 | 0.001 | 0.010 | 0.006 | 0.002 |
| 1997 | 0.668 | 0.276 | 0.009 | 0.026 | 0.021 | 0.056 | -0.006 | 0.015 |
| 1998 | 0.710 | 0.237 | 0.010 | 0.043 | 0.000 | 0.053 | 0.010 | 0.000 |
| 1999 | 0.795 | 0.072 | 0.018 | 0.020 | 0.095 | 0.133 | 0.017 | 0.001 |
| 2000 | 0.702 | 0.252 | 0.007 | 0.027 | 0.012 | 0.046 | 0.007 | 0.000 |
| 2001 | 0.574 | 0.327 | 0.049 | 0.029 | 0.021 | 0.099 | 0.047 | 0.002 |
| 2002 | 0.824 | 0.091 | 0.009 | 0.039 | 0.037 | 0.085 | 0.009 | 0.000 |
| 2003 | 0.872 | 0.100 | 0.005 | 0.005 | 0.019 | 0.029 | 0.004 | 0.001 |
| 2004 | 0.741 | 0.206 | 0.031 | 0.005 | 0.017 | 0.053 | 0.011 | 0.020 |
| 2005 | 0.689 | 0.250 | 0.041 | 0.000 | 0.020 | 0.061 | 0.039 | 0.002 |
| 2006 | 0.527 | 0.415 | 0.027 | 0.017 | 0.015 | 0.059 | 0.020 | 0.007 |
| 2007 | 0.846 | 0.098 | 0.028 | 0.021 | 0.007 | 0.057 | 0.013 | 0.015 |
| Average |  |  |  |  |  |  |  |  |
| 85-07 | 0.683 | 0.255 | 0.024 | 0.018 | 0.029 | 0.063 | 0.019 | 0.006 |
| 98-07 | 0.728 | 0.205 | 0.023 | 0.021 | 0.024 | 0.067 | 0.018 | 0.005 |
| 2008 | 0.500 | 0.190 | 0.158 | 0.033 | 0.118 | 0.309 | 0.154 | 0.004 |
| Catch |  |  |  |  |  |  |  |  |
| 1985 | 44,351 | 42,053 | 5,244 |  | 1,251 | 6,495 |  |  |
| 1986 | 43,875 | 16,471 | 11 |  | 105 | 116 |  |  |
| 1987 | 48,311 | 8,020 | 221 |  | 710 | 931 |  |  |
| 1988 | 31,092 | 3,358 | 742 |  | 0 | 742 |  |  |
| 1989 | 56,167 | 27,296 | 154 |  | 1,231 | 1,385 |  |  |
| 1990 | 52,188 | 27,506 | 114 |  | 1,075 | 1,189 |  |  |
| 1991 | 37,410 | 14,063 | 2,823 |  | 453 | 3,277 |  |  |
| 1992 | 35,613 | 11,930 | 1,226 |  | 7,778 | 9,004 |  |  |
| 1993 | 34,330 | 27,167 | 2,758 |  | 11,841 | 14,599 |  |  |
| 1994 | 38,426 | 11,063 | 3,712 |  | 321 | 4,033 | 2,923 | 789 |
| 1995 | 27,201 | 40,570 | 3,423 | 0 | 2,391 | 5,814 | 2,668 | 755 |
| 1996 | 58,028 | 28,448 | 674 | 90 | 76 | 840 | 486 | 188 |
| 1997 | 33,274 | 13,773 | 437 | 1,295 | 1,064 | 2,796 | -313 | 750 |
| 1998 | 24,411 | 8,150 | 352 | 1,465 | 5 | 1,822 | 352 | 0 |
| 1999 | 25,028 | 2,276 | 563 | 641 | 2,992 | 4,196 | 541 | 22 |
| 2000 | 22,608 | 8,121 | 210 | 885 | 389 | 1,484 | 210 | 0 |
| 2001 | 37,172 | 21,203 | 3,175 | 1,902 | 1,342 | 6,419 | 3,024 | 151 |
| 2002 | 14,086 | 1,559 | 159 | 664 | 637 | 1,460 | 159 | 0 |
| 2003 | 24,683 | 2,818 | 141 | 129 | 538 | 808 | 116 | 25 |
| 2004 | 22,485 | 6,253 | 929 | 138 | 526 | 1,593 | 336 | 593 |
| 2005 | 18,283 | 6,640 | 1,101 | 0 | 521 | 1,622 | 1,037 | 64 |
| 2006 | 17,704 | 13,943 | 911 | 569 | 494 | 1,975 | 674 | 237 |
| 2007 | 16,974 | 1,960 | 563 | 430 | 142 | 1,136 | 255 | 308 |
| Average |  |  |  |  |  |  |  |  |
| 85-07 | 33,204 | 14,984 | 1,289 | 631 | 1,560 | 3,206 | 891 | 277 |
| 98-07 | 22,343 | 7,292 | 810 | 682 | 759 | 2,252 | 670 | 140 |
| 2008 | 4,944 | 1,880 | 1,564 | 325 | 1,168 | 3,057 | 1,520 | 44 |

Appendix B. 7. Salmon catch and effort in the Alaskan District 108 commercial drift gillnet fishery, 19602008.

| $\underline{\text { Permit days are adjusted for boats which did not fish the entire opening and may total less than the sum of the per }}$ |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Catch |  |  |  |  | Effort |  |
|  | Chinook |  |  |  |  |  | Days |
|  | Large non large | Sockeye | Coho | Pink | Chum | Days | Open |
| 1962 | 618 | 4,430 | 3,921 | 2,889 | 2,035 |  | 27 |
| 1963 | 1,430 | 9,979 | 11,612 | 10,198 | 11,024 |  | 53 |
| 1964 | 2,911 | 20,299 | 29,388 | 114,555 | 10,771 |  | 62 |
| 1965 | 3,106 | 21,419 | 8,301 | 4,729 | 2,480 |  | 48 |
| 1966 | 4,516 | 36,710 | 16,493 | 61,908 | 17,730 |  | 62 |
| 1967 | 6,372 | 29,226 | 6,747 | 4,713 | 5,955 |  | 40 |
| 1968 | 4,604 | 14,594 | 36,407 | 91,028 | 14,537 |  | 61 |
| 1969 | 5,021 | 19,209 | 5,790 | 11,877 | 2,311 | 967 | 46 |
| 1970 | 3,207 | 15,120 | 18,403 | 20,523 | 12,305 | 1,222 | 51 |
| 1971 | 3,717 | 18,143 | 14,876 | 21,806 | 4,665 | 1,070 | 57 |
| 1972 | 9,332 | 51,734 | 38,520 | 17,153 | 17,363 | 2,095 | 64 |
| 1973 | 9,254 | 21,387 | 5,837 | 6,585 | 6,680 | 1,519 | 39 |
| 1974 | 8,199 | 2,428 | 16,021 | 4,188 | 2,107 | 1,178 | 29 |
| 1975 | 1,534 | 0 | 0 | 0 | 1 | 258 | 8 |
| 1976 | 1,123 | 18 | 6,056 | 722 | 124 | 372 | 19 |
| 1977 | 1,443 | 48,374 | 14,405 | 16,253 | 4,233 | 742 | 23 |
| 1978 | 531 | 56 | 32,650 | 1,157 | 1,001 | 565 | 12 |
| 1979 | 91 | 2,158 | 234 | 13,478 | 1,064 | 94 | 5 |
| 1980 | 631 | 14,053 | 2,946 | 7,224 | 6,910 | 327 | 22 |
| 1981 | 283 | 8,833 | 1,403 | 1,466 | 3,594 | 177 | 9 |
| 1982 | 1,033 | 6,911 | 19,971 | 16,988 | 741 | 494 | 21 |
| 1983 | 47 | 178 | 15,369 | 4,171 | 675 | 263 | 17 |
| 1984 | 14 | 1,290 | 5,141 | 4,960 | 1,892 | 56 | 9 |
| 1985 | 20 | 1,060 | 1,926 | 5,325 | 1,892 | 70 | 14 |
| 1986 | 102 | 4,185 | 7,439 | 4,901 | 5,928 | 246 | 25 |
| 1987 | 149 | 1,629 | 1,015 | 3,343 | 949 | 81 | 13 |
| 1988 | 206 | 1,246 | 12 | 144 | 3,109 | 66 | 8 |
| 1989 | 310 | 10,083 | 4,261 | 27,640 | 3,375 | 216 | 28 |
| 1990 | 557 | 11,574 | 8,218 | 13,822 | 9,382 | 359 | 34 |
| 1991 | 1,504 | 22,275 | 15,864 | 10,935 | 11,402 | 643 | 49 |
| 1992 | 967 | 52,717 | 22,127 | 66,742 | 15,458 | 1,246 | 51 |
| 1993 | 1,628 | 76,874 | 14,307 | 39,661 | 22,504 | 1,569 | 48 |
| 1994 | 1,996 | 97,224 | 44,891 | 35,405 | 27,658 | 2,199 | 57 |
| 1995 | 1,702 | 76,756 | 17,834 | 37,788 | 54,296 | 1,729 | 50 |
| 1996 | 1,717 | 154,150 | 19,059 | 37,651 | 135,623 | 2,396 | 57 |
| 1997 | 2,566 | 93,039 | 2,140 | 65,745 | 38,913 | 1,699 | 44 |
| 1998 | 460 | 22,031 | 19,206 | 39,246 | 41,057 | 947 | 45 |
| 1999 | 1,049 | 36,548 | 28,437 | 48,550 | 117,196 | 1,675 | 54 |
| 2000 | 1,671 | 15,833 | 5,651 | 9,497 | 40,337 | 606 | 35 |
| 2001 | 7 | 610 | 10,731 | 11,012 | 5,397 | 377 | 36 |
| 2002 | 25 | 208 | 21,131 | 4,578 | 2,017 | 323 | 35 |
| 2003 | 312 | 42,158 | 38,795 | 76,113 | 51,701 | 1,270 | 56 |
| 2004 | 7,410 | 103,392 | 26,439 | 20,439 | 37,996 | 1,830 | 53 |
| 2005 | 25,741 2,677 | 99,465 | 42,203 | 106,395 | 150,121 | 5,380 | 78 |
| 2006 | 26,982 3,019 | 61,298 | 34,430 | 56,810 | 343,637 | 3,576 | 64 |
| 2007 | 14,627 2,836 | 70,580 | 19,880 | 39,872 | 177,547 | 2,625 | 56 |
| Averages |  |  |  |  |  |  |  |
| 60-07 | 3,494 | 30,467 | 15,576 | 26,091 | 31,037 | 1,090 | 38.5 |
| 98-07 | 7,828 | 45,212 | 24,690 | 41,251 | 96,701 | 1,861 | 51.2 |
| $\underline{2008}$ | 13,049 1,550 | 35,679 | 34,479 | 18,105 | 81,876 | 2,897 | 58.0 |

-Continued-

Appendix B.7. Page 2 of 2.
Alaska Hatchery Contributions for Large Chinook and Coho

|  | Large Chinook |  | Coho |  |
| :--- | ---: | ---: | ---: | ---: |
|  | Hatchery | Wild | Hatchery | Wild |
| 1989 | 83 | 227 | 55 | 4,206 |
| 1990 | 249 | 308 | 2,536 | 5,682 |
| 1991 | 490 | 1,014 | 3,442 | 12,422 |
| 1992 | 439 | 528 | 7,067 | 15,060 |
| 1993 | 762 | 866 | 890 | 13,417 |
| 1994 | 594 | 1,402 | 2,043 | 42,848 |
| 1995 | 757 | 945 | 1,087 | 16,747 |
| 1996 | 839 | 878 | 1,269 | 17,790 |
| 1997 | 731 | 1,835 | 161 | 1,979 |
| 1998 | 302 | 158 | 3,042 | 16,164 |
| 1999 | 361 | 688 | 6,361 | 22,076 |
| 2000 | 934 | 737 | 2,801 | 2,850 |
| 2001 | 0 | 7 | 2,565 | 8,166 |
| 2002 | 0 | 25 | 1,449 | 19,682 |
| 2003 | 209 | 103 | 7,260 | 31,535 |
| 2004 | 1,890 | 5,520 | 2,447 | 23,992 |
| 2005 | 1,816 | 23,925 | 8,986 | 33,217 |
| 2006 | 4,802 | 22,180 | 10,981 | 23,449 |
| 2007 | 5,483 | 9,144 | 7,992 | 11,888 |
| Averages |  |  |  |  |
| $89-07$ | 1,080 |  | 3,811 |  |
| 2008 | 5,627 | 7,422 |  | 9,674 |

Appendix B. 8. Stock proportions and catches of sockeye salmon in the Alaskan District 108 commercial drift gillnet fishery, 1985-2008.

| Data based on scale pattern analysis. |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Alaska | Canada | Stikine |  |  |  | Tahltan |  |
|  |  |  | Tahltan | Tuya | Mainstem | Total | Wild | Planted |
| 1985 | 0.064 | 0.000 | 0.292 |  | 0.644 | 0.936 |  |  |
| 1986 | 0.206 | 0.017 | 0.094 |  | 0.683 | 0.777 |  |  |
| $1987{ }^{\text {a }}$ | 0.125 | 0.000 | 0.438 |  | 0.437 | 0.875 |  |  |
| 1988 | 0.213 | 0.039 | 0.178 |  | 0.571 | 0.749 |  |  |
| 1989 | 0.117 | 0.054 | 0.034 |  | 0.795 | 0.829 |  |  |
| 1990 | 0.395 | 0.128 | 0.111 |  | 0.366 | 0.477 |  |  |
| 1991 | 0.173 | 0.118 | 0.395 |  | 0.314 | 0.709 |  |  |
| 1992 | 0.163 | 0.051 | 0.258 |  | 0.528 | 0.786 |  |  |
| 1993 | 0.231 | 0.114 | 0.256 |  | 0.399 | 0.655 |  |  |
| 1994 | 0.326 | 0.208 | 0.362 |  | 0.103 | 0.466 | 0.246 | 0.116 |
| 1995 | 0.135 | 0.204 | 0.455 | 0.006 | 0.200 | 0.661 | 0.198 | 0.257 |
| 1996 | 0.102 | 0.082 | 0.622 | 0.069 | 0.125 | 0.816 | 0.552 | 0.070 |
| 1997 | 0.058 | 0.131 | 0.362 | 0.261 | 0.189 | 0.812 | 0.260 | 0.102 |
| 1998 | 0.115 | 0.108 | 0.189 | 0.244 | 0.343 | 0.777 | 0.182 | 0.008 |
| 1999 | 0.144 | 0.036 | 0.414 | 0.201 | 0.205 | 0.820 | 0.390 | 0.024 |
| 2000 | 0.204 | 0.128 | 0.132 | 0.261 | 0.275 | 0.669 | 0.100 | 0.032 |
| 2001 | 0.775 | 0.098 | 0.000 | 0.005 | 0.121 | 0.126 | 0.000 | 0.000 |
| 2002 | 0.875 | 0.120 | 0.000 | 0.000 | 0.005 | 0.005 | 0.000 | 0.000 |
| 2003 | 0.227 | 0.118 | 0.179 | 0.062 | 0.414 | 0.655 | 0.092 | 0.087 |
| 2004 | 0.100 | 0.030 | 0.613 | 0.018 | 0.239 | 0.869 | 0.361 | 0.252 |
| 2005 | 0.128 | 0.178 | 0.437 | 0.000 | 0.257 | 0.694 | 0.179 | 0.258 |
| 2006 | 0.067 | 0.130 | 0.588 | 0.081 | 0.135 | 0.803 | 0.257 | 0.331 |
| 2007 | 0.179 | 0.133 | 0.474 | 0.147 | 0.067 | 0.688 | 0.150 | 0.324 |
| Averages |  |  |  |  |  |  |  |  |
| 85-07 | 0.223 | 0.097 | 0.299 | 0.104 | 0.322 | 0.681 | 0.212 | 0.133 |
| 98-07 | 0.281 | 0.108 | 0.303 | 0.102 | 0.206 | 0.611 | 0.171 | 0.131 |
| 2008 | 0.089 | 0.110 | 0.352 | 0.291 | 0.159 | 0.801 | 0.186 | 0.165 |
| Catch |  |  |  |  |  |  |  |  |
| 1985 | 68 | 0 | 310 |  | 683 | 992 |  |  |
| 1986 | 862 | 71 | 393 |  | 2,858 | 3,252 |  |  |
| 1987 | 204 | 0 | 714 |  | 712 | 1,425 |  |  |
| 1988 | 265 | 48 | 222 |  | 711 | 933 |  |  |
| 1989 | 1,180 | 545 | 341 |  | 8,017 | 8,358 |  |  |
| 1990 | 4,576 | 1,479 | 1,280 |  | 4,239 | 5,519 |  |  |
| 1991 | 3,859 | 2,622 | 8,807 |  | 6,987 | 15,794 |  |  |
| 1992 | 8,604 | 2,696 | 13,599 |  | 27,818 | 41,417 |  |  |
| 1993 | 17,758 | 8,742 | 19,688 |  | 30,686 | 50,374 |  |  |
| 1994 | 31,715 | 20,250 | 35,222 |  | 10,037 | 45,259 | 23,936 | 11,286 |
| 1995 | 10,374 | 15,641 | 34,950 | 461 | 15,330 | 50,741 | 15,224 | 19,726 |
| 1996 | 15,755 | 12,618 | 95,837 | 10,621 | 19,319 | 125,777 | 85,041 | 10,796 |
| 1997 | 5,381 | 12,152 | 33,644 | 24,288 | 17,574 | 75,506 | 24,144 | 9,500 |
| 1998 | 2,541 | 2,376 | 4,170 | 5,383 | 7,561 | 17,114 | 4,000 | 170 |
| 1999 | 5,255 | 1,313 | 15,134 | 7,360 | 7,486 | 29,980 | 14,258 | 876 |
| 2000 | 3,226 | 2,019 | 2,097 | 4,138 | 4,353 | 10,588 | 1,591 | 506 |
| 2001 | 473 | 60 | 0 | 3 | 74 | 77 | 0 | 0 |
| 2002 | 182 | 25 | 0 | 0 | 1 | 1 | 0 | 0 |
| 2003 | 9,568 | 4,958 | 7,562 | 2,615 | 17,455 | 27,632 | 3,896 | 3,666 |
| 2004 | 10,375 | 3,136 | 63,347 | 1,869 | 24,666 | 89,882 | 37,274 | 26,073 |
| 2005 | 12,742 | 17,661 | 43,467 | 0 | 25,595 | 69,062 | 17,853 | 25,614 |
| 2006 | 4,088 | 7,973 | 36,021 | 4,944 | 8,272 | 49,237 | 15,762 | 20,259 |
| 2007 | 12,653 | 9,374 | 33,439 | 10,398 | 4,716 | 48,553 | 10,572 | 22,867 |
| Averages |  |  |  |  |  |  |  |  |
| 85-07 | 7,031 | 5,468 | 19,576 | 5,545 | 10,659 | 33,368 | 18,111 | 10,810 |
| 98-07 | 6,110 | 4,890 | 20,524 | 3,671 | 10,018 | 34,213 | 10,521 | 10,003 |
| 2008 | 3,189 | 3,919 | 12,547 | 10,365 | 5,659 | 28,571 | 6,648 | 5,899 |

${ }^{\text {a }}$ No data to separate Tahltan and Mainstem Stikine in 1987.

Appendix B. 9. Salmon catch in the Alaskan District 106 and 108 test fisheries, 1984-2008.

| Table only includes years when test fisheries were operated. |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Catch |  |  |  |  | Boat <br> Hours |
|  | Chinook | Sockeye | Coho | Pink | Chum |  |
|  | Large non large |  |  |  |  |  |
| Sub-district 106-41 (Sumner Strait) |  |  |  |  |  |  |
| 1984 | 13 | 1,370 | 101 | 975 | 793 | 5.94 |
| 1985 | 16 | 4,345 | 301 | 3,230 | 746 | 6.51 |
| 1986 | 23 | 982 | 177 | 60 | 248 | 4.14 |
| 1987 | 24 | 2,659 | 799 | 4,117 | 741 | 21.17 |
| 1988 | 11 | 1,020 | 89 | 137 | 772 | 5.04 |
| 1989 | 11 | 2,043 | 275 | 6,069 | 856 | 2.51 |
| 1990 | 13 | 2,256 | 432 | 372 | 552 | 0.29 |
| 1994 | 0 | 12 | 1 | 0 | 16 | 0.46 |
| Sub-district 106-30 (Clarence Strait) |  |  |  |  |  |  |
| 1986 | 24 | 363 | 95 | 80 | 58 | 0.97 |
| 1987 | 1 | 899 | 589 | 1,705 | 467 | 16.00 |
| 1988 | 10 | 16 | 412 | 112 | 598 | 4.99 |
| 1989 | 4 | 37 | 464 | 431 | 329 |  |
| Total District 106 |  |  |  |  |  |  |
| 1984 | 13 | 1,370 | 101 | 975 | 793 | 5.94 |
| 1985 | 16 | 4,345 | 301 | 3,230 | 746 | 6.51 |
| 1986 | 47 | 1,345 | 272 | 140 | 306 | 5.11 |
| 1987 | 25 | 3,558 | 1,388 | 5,822 | 1,208 | 37.17 |
| 1988 | 21 | 1,036 | 501 | 249 | 1,370 | 10.03 |
| 1989 | 15 | 2,080 | 739 | 6,500 | 1,185 | 2.51 |
| 1990 | 13 | 2,256 | 432 | 372 | 552 | 0.29 |
| 1994 | 0 | 12 | 1 | 0 | 16 | 0.46 |
| District 108 |  |  |  |  |  |  |
| 1984 | 37 | 641 | 11 | 822 | 813 |  |
| 1985 | 33 | 1,258 | 11 | 465 | 381 | 2.99 |
| 1986 | 79 | 564 | 3 | 36 | 315 | 3.01 |
| 1987 | 30 | 290 | 13 | 1,957 | 488 | 3.20 |
| 1988 | 65 | 451 | 9 | 1,091 | 1,009 | 5.28 |
| 1989 | 15 | 1,038 | 45 | 2,459 | 283 | 2.64 |
| 1990 | 19 | 866 | 45 | 942 | 643 | 0.29 |
| 1991 | 21 | 893 | 18 | 390 | 455 | 6.46 |
| 1992 | 26 | 1,299 | 23 | 855 | 252 | 3.29 |
| 1993 | 30 | 303 | 0 | 18 | 31 | 1.88 |
| 1998 | 0 | 3,510 | 142 | 61 | 235 | 1.88 |
| 1999 | 29 | 4,801 | 217 | 429 | 1,368 | 1.88 |
| 2000 | 21 | 4,686 | 140 | 53 | 724 |  |

Appendix B. 10. Stock proportions of sockeye salmon in the Alaskan District 106 and 108 test fisheries, 1984-2008.

Table only includes years when test fisheries were operated and catches included sockeye salmon.
Data based on scale pattern analysis.

|  |  |  | Stikine |  |  | Tahltan |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Alaska | Canada | Tahltan | Tuya Mainstem | Total | Wild | Planted |

Sub-district 106-41 (Sumner Strait) Proportions

| 1984 | 0.658 | 0.269 | 0.029 | 0.044 | 0.074 |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 1985 | 0.480 | 0.401 | 0.109 | 0.010 | 0.119 |  |  |
| 1986 | 0.834 | 0.149 | 0.008 | 0.009 | 0.017 |  |  |
| 1987 | 0.816 | 0.166 | 0.015 | 0.003 | 0.018 |  |  |
| 1988 | 0.868 | 0.098 | 0.034 | 0.000 | 0.034 |  |  |
| 1989 | 0.624 | 0.304 | 0.017 | 0.056 | 0.072 |  |  |
| 1990 | 0.548 | 0.416 | 0.014 | 0.022 | 0.035 |  |  |
|  |  |  |  |  |  |  |  |
| 1994 | 0.500 | 0.250 | 0.250 | 0.000 | 0.250 | 0.167 | 0.083 |


| Sub-district |  |  |  |  |  |  |  | 106-30 (Clarence Strait) Proportions |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| 1986 | 0.726 | 0.272 | 0.000 | 0.002 | 0.002 |  |  |  |  |  |  |  |
| 1987 | 0.844 | 0.140 | 0.004 | 0.012 | 0.016 |  |  |  |  |  |  |  |
| 1988 | 0.746 | 0.254 | 0.000 | 0.000 | 0.000 |  |  |  |  |  |  |  |
| 1989 | 0.514 | 0.486 | 0.000 | 0.000 | 0.000 |  |  |  |  |  |  |  |
| 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 | 0.250 |  |  |  |  |  |  |
|  |  |  |  |  |  | 0.000 |  |  |  |  |  |  |


| 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 | 0.336 |
| 1999 | 0.162 | 0.019 | 0.481 | 0.298 | 0.041 | 0.820 | 0.453 |
| 2000 | 0.110 | 0.116 | 0.302 | 0.321 | 0.150 | 0.774 | 0.240 |

Appendix B. 11. Stock specific catches of sockeye salmon in the Alaskan District 106 and 108 test fisheries, 1984-2008.

| Table only includes years when test <br> Data based on scale pattern analysis |  |  | Stikine |  |  |  | Tahltan |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Alaska | Canada | Tahltan | Tuya | stem | Total | Wild | Planted |
| Sub-district 106-41 (Sumner Strait) Catches |  |  |  |  |  |  |  |  |
| 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) Catches |  |  |  |  |  |  |  |  |
| 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 Catches |  |  |  |  |  |  |  |  |
| 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 | 3 | 0 |
| District 108 Catches |  |  |  |  |  |  |  |  |
| 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 | 1,181 | 57 |
| 1999 | 776 | 89 | 2,309 | 1,430 | 197 | 3,936 | 2,174 | 135 |
| 2000 | 516 | 544 | 1,416 | 1,505 | 705 | 3,626 | 1,125 | 291 |

Appendix B. 12. Annual harvests of Stikine River Chinook salmon in District 108 gillnet, troll, recreational, and subsistence fisheries, 2005-2008.

| Year | Chinook Salmon Harvest |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Gillnet |  |  | Troll ${ }^{\text {a }}$ |  |  | Rec | Subsistence | Total |
|  | Catch | Permits | Days | Catch | Permits | Days |  |  |  |
| 2005 | 22,402 | 789 | 41 | 4,308 | 252 | 61 | 3,002 | 15 | 29,727 |
| 2006 | 21,861 | 953 | 35 | 1,895 | 234 | 44 | 2,944 | 37 | 26,737 |
| 2007 | 9,099 | 736 | 27 | 1,346 | 226 | 30 | 3,273 | 37 | 13,755 |
| 2008 | 7,274 | 821 | 29 | 1,063 | 230 | 37 | 1,352 | 26 | 9,715 |

Appendix B. 13. U.S. subsistence fishery harvest in the Stikine River, 2004-2008.

|  | Harvest |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Chinook |  |  |  |  |  |  |  |  |  |  | Permits <br> Year | Large non large | Sockeye | Coho | Pink | Chum | Fished |
|  | 12 | 9 | 243 | 0 | 22 | 11 | 16 |  |  |  |  |  |  |  |  |  |  |  |
| 2004 | 15 | 8 | 252 | 53 | 69 | 22 | 22 |  |  |  |  |  |  |  |  |  |  |  |
| 2005 | 37 | 17 | 390 | 21 | 23 | 20 | 22 |  |  |  |  |  |  |  |  |  |  |  |
| 2007 | 37 | 15 | 245 | 23 | 59 | 11 | 23 |  |  |  |  |  |  |  |  |  |  |  |
| 2008 | 26 | 6 | 428 | 42 | 18 | 12 | 22 |  |  |  |  |  |  |  |  |  |  |  |

Appendix B. 14. Salmon catch and effort in the Canadian commercial fishery in the lower Stikine River, 1979-2008.

| Year | Catch |  |  |  |  | Effort |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Chinook | Sockeye | Coho | Pink | Chum | Permit Days | Days |
|  | Large non large |  |  |  |  |  |  |
| $1979{ }^{\text {a }}$ | 71263 | 10,534 | 10,720 | 1,994 | 424 | 756.0 | 42.0 |
| $1980^{\text {b }}$ | 1,488 | 18,119 | 6,629 | 736 | 771 | 668.0 | 41.0 |
| $1981{ }^{\text {b }}$ | 664 | 21,551 | 2,667 | 3,713 | 1,128 | 522.0 | 32.0 |
| $1982^{\text {b }}$ | 1,693 | 15,397 | 15,904 | 1,782 | 722 | 1,063.0 | 71.0 |
| 1983 | 492430 | 15,857 | 6,170 | 1,043 | 274 | 434.0 | 54.0 |
| 1984 | no commercial fishery. |  |  |  |  |  |  |
| 1985 | 256 91 | 17,093 | 2,172 | 2,321 | 532 | 145.5 | 22.5 |
| 1986 | 806365 | 12,411 | 2,278 | 107 | 295 | 239.0 | 13.5 |
| 1987 | 909242 | 6,138 | 5,728 | 646 | 432 | 287.0 | 20.0 |
| 1988 | 1,007 201 | 12,766 | 2,112 | 418 | 730 | 320.0 | 26.5 |
| 1989 | 1,537 157 | 17,179 | 6,092 | 825 | 674 | 325.0 | 23.0 |
| 1990 | 1,569 680 | 14,530 | 4,020 | 496 | 499 | 328.0 | 29.0 |
| 1991 | 641318 | 17,563 | 2,638 | 394 | 208 | 282.4 | 39.0 |
| 1992 | 873 89 | 21,031 | 1,850 | 122 | 231 | 235.4 | 55.0 |
| 1993 | $830 \quad 164$ | 38,464 | 2,616 | 29 | 395 | 483.8 | 58.0 |
| 1994 | 1,016 158 | 38,462 | 3,377 | 89 | 173 | 430.1 | 74.0 |
| 1995 | 1,067 599 | 45,622 | 3,418 | 48 | 256 | 534.0 | 59.0 |
| 1996 | 1,708 221 | 66,262 | 1,402 | 25 | 229 | 439.2 | 81.0 |
| 1997 | 3,283 186 | 56,995 | 401 | 269 | 222 | 569.4 | 89.0 |
| 1998 | 1,614 328 | 37,310 | 726 | 55 | 13 | 374.0 | 46.5 |
| 1999 | 2,127 789 | 32,556 | 181 | 11 | 8 | 261.3 | 31.0 |
| 2000 | 1,970 240 | 20,472 | 298 | 181 | 144 | 227.0 | 23.3 |
| 2001 | 826 59 | 19,872 | 233 | 78 | 56 | 173.0 | 23.0 |
| 2002 | 433209 | 10,420 | 82 | 19 | 33 | 169.0 | 21.0 |
| 2003 | $695 \quad 672$ | 51,735 | 190 | 850 | 112 | 275.2 | 28.8 |
| 2004 | 2,481 2,070 | 77,530 | 271 | 8 | 134 | 431.0 | 43.0 |
| 2005 | 19,070 1,181 | 79,952 | 276 | 0 | 39 | 803.0 | 72.0 |
| 2006 | 15,098 1,955 | 95,791 | 72 | 0 | 14 | 775.1 | 68.7 |
| 2007 | 10,131 1,469 | 56,913 | 50 | 0 | 2 | 767.4 | 67.5 |
| Averages |  |  |  |  |  |  |  |
| 79-07 | 2,678 517 | 33,162 | 2,949 | 581 | 313 | 440 | 44.8 |
| 98-07 | 5,444 897 | 48,255 | 238 | 120 | 56 | 426 | 42.5 |
| 2008 | 7,051 908 | 28,636 | 2,398 | 88 | 90 | 566.0 | 55.0 |

${ }^{\text {a }}$ In 1979 the lower and upper river commercial fishery catches were combined
${ }^{\mathrm{b}}$ All Chinook combined.

Appendix B. 15. Sockeye salmon stock proportions and catch by stock in the Canadian commercial fishery in the lower Stikine River, 1979-2008.

| Year | Proportions |  |  | Planted Tahltan | Catch |  |  | Tahltan |  | Stock Id Method | Fishery <br> Timing |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Tahltan | Tuya | instem |  | Tahltan | Tuya | instem | Wild | Planted |  |  |
| 1979 | 0.433 |  | 0.567 |  | 4,561 |  | 5,973 |  |  | circuli counts |  |
| 1980 | 0.309 |  | 0.691 |  | 5,599 |  | 12,520 |  |  | circuli counts |  |
| 1981 | 0.476 |  | 0.524 |  | 10,258 |  | 11,293 |  |  | circuli counts |  |
| 1982 | 0.624 |  | 0.376 |  | 9,608 |  | 5,789 |  |  | circuli counts |  |
| 1983 | 0.422 |  | 0.578 |  | 6,692 |  | 9,165 |  |  | circuli counts |  |
| 1984 | There was | o comm | ial fishery |  |  |  |  |  |  | SPA |  |
| 1985 | 0.623 |  | 0.377 |  | 10,649 |  | 6,444 |  |  | SPA |  |
| 1986 | 0.489 |  | 0.511 |  | 6,069 |  | 6,342 |  |  | SPA\&GPA |  |
| 1987 | 0.225 |  | 0.775 |  | 1,380 |  | 4,758 |  |  | SPA\&GPA |  |
| 1988 | 0.161 |  | 0.839 |  | 2,062 |  | 10,704 |  |  | SPA\&GPA |  |
| 1989 | 0.164 |  | 0.836 |  | 2,813 |  | 14,366 |  |  | Eggs \& TMR |  |
| 1990 | 0.346 |  | 0.654 |  | 5,029 |  | 9,501 |  |  | Eggs \& TMR |  |
| 1991 | 0.634 |  | 0.366 |  | 11,136 |  | 6,427 |  |  | Eggs \&TMR |  |
| 1992 | 0.482 |  | 0.518 |  | 10,134 |  | 10,897 |  |  | Eggs \& TMR |  |
| 1993 | 0.537 |  | 0.463 |  | 20,662 |  | 17,802 |  |  | Eggs \&TMR |  |
| 1994 | 0.616 |  | 0.384 |  | 23,678 |  | 14,784 |  |  | Eggs \& TMR | commercia |
| 1995 | 0.676 | 0.020 | 0.304 | 0.195 | 30,848 | 893 | 13,881 | 21,936 | 8,912 | Eggs \& TMR | commercia |
| 1996 | 0.537 | 0.113 | 0.350 | 0.066 | 35,584 | 7,465 | 23,213 | 31,197 | 4,387 | Eggs \& TMR | commercia |
| 1997 | 0.356 | 0.272 | 0.372 | 0.072 | 20,269 | 15,513 | 21,213 | 16,175 | 4,094 | Eggs \&TMR | commercia |
| 1998 | 0.335 | 0.352 | 0.313 | 0.020 | 12,498 | 13,137 | 11,675 | 11,751 |  | Eggs \&TMR | commercia |
| 1999 | 0.576 | 0.241 | 0.183 | 0.021 | 18,742 | 7,862 | 5,952 | 18,046 |  | Eggs \&TMR | commercia |
| 2000 | 0.252 | 0.397 | 0.350 | 0.039 | 5,165 | 8,136 | 7,171 | 4,364 |  | Eggs \&TMR | commercia |
| 2001 | 0.175 | 0.226 | 0.599 | 0.032 | 3,482 | 4,483 | 11,907 | 2,850 |  | Eggs \&TMR | test |
| 2002 | 0.320 | 0.128 | 0.552 | 0.074 | 3,335 | 1,335 | 5,750 | 2,559 |  | Eggs \&TMR | test |
| 2003 | 0.427 | 0.161 | 0.412 | 0.131 | 22,067 | 8,335 | 21,333 | 15,304 | 6,763 | Eggs \& TMR | test |
| 2004 | 0.707 | 0.016 | 0.276 | 0.285 | 54,841 | 1,276 | 21,415 | 32,717 | 22,124 | Eggs \& TMR | commercia |
| 2005 | 0.761 | 0.018 | 0.221 | 0.352 | 60,881 | 1,437 | 17,634 | 32,707 | 28,174 | Eggs \& TMR | commercia |
| 2006 | 0.747 | 0.178 | 0.075 | 0.416 | 71,573 | 17,079 | 7,139 | 31,685 | 39,888 | Eggs \& TMR | commercia |
| 2007 | 0.635 | 0.191 | 0.173 | 0.321 | 36,167 | 10,891 | 9,855 | 17,901 | 18,266 | Eggs \&TMR | commercia |
| Averages |  |  |  |  |  |  |  |  |  |  |  |
| 79-07 | 0.466 | 0.178 | 0.451 | 0.156 | 18,064 | 7,526 | 11,604 | 18,399 | 10,482 |  |  |
| 98-07 | 0.494 | 0.191 | 0.315 | 0.169 | 28,875 | 7,397 | 11,983 | 16,988 | 11,887 |  |  |
| 2008 | 0.470 | 0.389 | 0.141 | 0.228 | 13,455 | 11,153 | 4,028 | 6,922 | 6,533 | Eggs \&TMR | commercia |

Appendix B. 16. Salmon catch and effort in the Canadian commercial fishery in the upper Stikine River, 1975-2008.

| Year | Catch |  |  |  |  | Effort |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Chinook | Sockeye | Coho | Pink | Chum | Permit Days | Days |
|  | Large non large |  |  |  |  |  |  |
| 1975 | 178 | 270 | 45 | 0 | 0 |  |  |
| 1976 | 236 | 733 | 13 | 0 | 0 |  |  |
| $1977{ }^{\text {a }}$ | 62 | 1,975 | 0 | 0 | 0 |  |  |
| $1978{ }^{\text {a }}$ | 100 | 1,500 | 0 | 0 | 0 |  |  |
| $1979{ }^{\text {b }}$ |  |  |  |  |  |  |  |
| 1980 | 156 75-85 | 700 | 40 | 20 | 0 |  |  |
| 1981 | 154 | 769 | 0 | 0 | 0 | 11.0 | 5.0 |
| 1982 | 76 | 195 | 0 | 0 | 0 | 8.0 | 4.0 |
| 1983 | 75 | 614 | 0 | 0 | 4 | 10.0 | 8.0 |
| 1984 | no commercial fishery. |  |  |  |  |  |  |
| 1985 | 62 | 1,084 | 0 | 0 | 0 | 14.0 | 6.0 |
| 1986 | 104 41 | 815 | 0 | 0 | 0 | 19.0 | 7.0 |
| 1987 | 10919 | 498 | 0 | 0 | 19 | 20.0 | 7.0 |
| 1988 | 175 46 | 348 | 0 | 0 | 0 | 21.5 | 6.5 |
| 1989 | $54 \quad 17$ | 493 | 0 | 0 | 0 | 14.0 | 7.0 |
| 1990 | $48 \quad 20$ | 472 | 0 | 0 | 0 | 15.0 | 7.0 |
| 1991 | 117 32 | 761 | 0 | 0 | 0 | 13.0 | 6.0 |
| 1992 | $56 \quad 19$ | 822 | 0 | 0 | 0 | 28.0 | 13.0 |
| 1993 | $44 \quad 2$ | 1,692 | 0 | 0 | 0 | 48.0 | 22.0 |
| 1994 | $76 \quad 1$ | 2,466 | 0 | 1 | 0 | 68.0 | 50.0 |
| 1995 | $9 \quad 17$ | 2,355 | 0 | 0 | 0 | 54.0 | 25.0 |
| 1996 | $41 \quad 44$ | 1,101 | 0 | 0 | 0 | 75.0 | 59.0 |
| 1997 | $45 \quad 6$ | 2,199 | 0 | 0 | 0 | 42.0 | 29.0 |
| 1998 | 120 | 907 | 0 | 0 | 0 | 19.0 | 19.0 |
| 1999 | $24 \quad 12$ | 625 | 0 | 0 | 0 | 19.0 | 18.0 |
| 2000 | $7 \quad 2$ | 889 | 0 | 0 | 0 | 19.8 | 9.3 |
| 2001 | $0 \quad 0$ | 487 | 0 | 0 | 0 | 6.0 | 4.0 |
| 2002 | 23 | 484 | 0 | 0 | 0 | 12.0 | 9.0 |
| 2003 | $19 \quad 12$ | 454 | 0 | 0 | 0 | 10.0 | 10.0 |
| 2004 | $0 \quad 1$ | 626 | 0 | 0 | 0 | 11.0 | 11.0 |
| 2005 | 28 1 | 605 | 0 | 0 | 0 | 13.0 | 13.0 |
| 2006 | $22-1$ | 520 | 0 | 0 | 0 | 15.0 | 15.0 |
| 2007 | $10 \quad 25$ | 912 | 0 | 0 | 0 | 17.0 | 17.0 |
| Averages ${ }^{\text {c }}$ |  |  |  |  |  |  |  |
| 75-07 | $68 \quad 15$ | 915 | 3 | 1 | 1 | 23 | 14.9 |
| 98-07 | $12 \quad 6$ | 651 | 0 | 0 | 0 | 14 | 12.5 |
| 2008 | $40-9$ | 505 | 0 | 0 | 0 | 13.0 | 13.0 |

${ }^{\text {a }}$ All Chinook combined.
${ }^{\mathrm{b}}$ In 1979 the lower and upper river commercial fishery catches were combined
${ }^{\text {c }}$ Chinook averages only since 1986 when large fish and jacks were recorded separately.

Appendix B. 17. Salmon catch in the Canadian Aboriginal fishery located at Telegraph Creek, on the Stikine River, 1972-2008.

| Year | Aboriginal |  |  |  |  | $\begin{array}{r} \text { Recreational } \\ \text { large Chin } \\ \hline \end{array}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Chinook | Sockeye | Coho | Pink | Chum |  |
|  | Large nonl large |  |  |  |  |  |
| 1972 |  | 4,373 | 0 | 0 | 0 |  |
| 1973 | 200 | 3,670 | 0 | 0 | 0 |  |
| 1974 | 100 | 3,500 | 0 | 0 | 0 |  |
| 1975 | 1,024 | 1,982 | 5 | 0 | 0 |  |
| 1976 | 924 | 2,911 | 0 | 0 | 0 |  |
| 1977 | 100 | 4,335 | 0 | 0 | 0 |  |
| 1978 | 400 | 3,500 | 0 | 0 | 0 |  |
| 1979 | 850 | 3,000 | 0 | 0 | 0 | 74 |
| 1980 | 587 | 2,100 | 100 | 0 | 0 | 136 |
| 1981 | 586 | 4,697 | 200 | 144 | 0 | 213 |
| 1982 | 618 | 4,948 | 40 | 60 | 0 | 181 |
| 1983 | 851215 | 4,649 | 3 | 77 | 26 | 38 |
| 1984 | 643 59 | 5,327 | 1 | 62 | 0 | 83 |
| 1985 | 793 94 | 7,287 | 3 | 35 | 4 | 92 |
| 1986 | 1,026 569 | 4,208 | 2 | 0 | 12 | 93 |
| 1987 | 1,183 183 | 2,979 | 3 | 0 | 8 | 138 |
| 1988 | 1,178 197 | 2,177 | 5 | 0 | 3 | 204 |
| 1989 | 1,078 115 | 2,360 | 6 | 0 | 0 | 132 |
| 1990 | 633259 | 3,022 | 17 | 0 | 0 | 129 |
| 1991 | 753310 | 4,439 | 10 | 0 | 0 | 129 |
| 1992 | $911 \quad 131$ | 4,431 | 5 | 0 | 0 | 181 |
| 1993 | 929142 | 7,041 | 0 | 0 | 0 | 386 |
| 1994 | 698191 | 4,167 | 4 | 0 | 0 | 218 |
| 1995 | $570 \quad 244$ | 5,490 | 0 | 0 | 7 | 107 |
| 1996 | 722156 | 6,918 | 2 | 0 | 3 | 162 |
| 1997 | 1,155 94 | 6,365 | 0 | 0 | 0 | 188 |
| 1998 | 538 95 | 5,586 | 0 | 0 | 0 | 165 |
| 1999 | 765463 | 4,874 | 0 | 0 | 0 | 166 |
| 2000 | 1,109 386 | 6,107 | 3 | 0 | 0 | 226 |
| 2001 | $665 \quad 44$ | 5,241 | 0 | 0 | 0 | 190 |
| 2002 | $927 \quad 366$ | 6,390 | 0 | 0 | 0 | 420 |
| 2003 | 682373 | 6,595 | 0 | 0 | 0 | 167 |
| 2004 | 1,425 497 | 6,862 | 4 | 0 | 0 | 91 |
| 2005 | $800 \quad 94$ | 5,333 | 0 | 0 | 0 | 118 |
| 2006 | 616122 | 5,094 | 0 | 4 | 0 | 40 |
| 2007 | $364 \quad 233$ | 2,188 | 2 | 0 | 0 | 0 |
| Averages |  |  |  |  |  |  |
| 72-07 | $754 \quad 225$ | 4,560 | 12 | 11 | 2 | 154 |
| 98-07 | $789 \quad 267$ | 5,427 | 1 | 0 | 0 | 158 |
| 2008 | 769150 | 4,510 | 0 | 0 | 0 | 46 |

Appendix B. 18. Stock specific sockeye salmon catches in the Canadian upper river commercial and Aboriginal fisheries in the Stikine River, 1972-2008.

| Year | Upper River Commercial |  |  |  |  | Aboriginal Fishery |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | All |  |  | Tahltan |  | All | Tuya Mainstem |  | Tahltan |  |
|  | Tahltan | Tuya | tem | Wild | Planted | Tahltan |  |  | Wild | Planted |
| 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 | Catches we | included | he low | river co | mercial catc | 2,700 |  | 300 |  |  |
| 1980 | 630 |  | 70 |  |  | 1,890 |  | 210 |  |  |
| 1981 | 692 |  | 77 |  |  | 4,227 |  | 470 |  |  |
| 1982 | 176 |  | 20 |  |  | 4,453 |  | 495 |  |  |
| 1983 | 553 |  | 61 |  |  | 4,184 |  | 465 |  |  |
| 1984 | There was | commer | fishery |  |  | 4,794 |  | 533 |  |  |
| 1985 | 976 |  | 108 |  |  | 6,558 |  | 729 |  |  |
| 1986 | 734 |  | 82 |  |  | 3,787 |  | 421 |  |  |
| 1987 | 448 |  | 50 |  |  | 2,681 |  | 298 |  |  |
| 1988 | 313 |  | 35 |  |  | 1,959 |  | 218 |  |  |
| 1989 | 444 |  | 49 |  |  | 2,124 |  | 236 |  |  |
| 1990 | 425 |  | 47 |  |  | 2,720 |  | 302 |  |  |
| 1991 | 685 |  | 76 |  |  | 3,995 |  | 444 |  |  |
| 1992 | 740 |  | 82 |  |  | 3,988 |  | 443 |  |  |
| 1993 | 1,523 |  | 169 |  |  | 6,337 |  | 704 |  |  |
| 1994 | 2,219 |  | 247 | 1,904 | 315 | 3,750 |  | 417 | 3,217 | 533 |
| 1995 | 2,120 | 60 | 176 | 1,508 | 612 | 4,941 | 139 | 410 | 3,514 | 1,427 |
| 1996 | 945 | 150 | 6 | 824 | 121 | 5,802 | 972 | 144 | 4,931 | 871 |
| 1997 | 1,152 | 834 | 213 | 914 | 238 | 3,318 | 2,403 | 644 | 2,631 | 687 |
| 1998 | 363 | 517 | 27 | 336 | 27 | 2,352 | 3,103 | 131 | 2,227 | 125 |
| 1999 | 359 | 206 | 60 | 356 | 3 | 3,038 | 1,423 | 413 | 2,903 | 135 |
| 2000 | 224 | 581 | 84 | 224 | 0 | 1,733 | 3,989 | 385 | 1,681 | 52 |
| 2001 | 213 | 229 | 45 | 148 | 65 | 1,795 | 2,939 | 507 | 1,454 | 341 |
| 2002 | 122 | 316 | 46 | 122 | 0 | 1,813 | 4,174 | 403 | 1,759 | 54 |
| 2003 | 316 | 100 | 38 | 219 | 97 | 3,987 | 1,571 | 1,037 | 2,659 | 1,328 |
| 2004 | 539 | 42 | 45 | 301 | 238 | 6,240 | 608 | 14 | 3,691 | 2,549 |
| 2005 | 582 | 13 | 10 | 437 | 145 | 5,099 | 71 | 163 | 3,845 | 1,254 |
| 2006 | 443 | 69 | 8 | 224 | 219 | 3,974 | 668 | 452 | 2,028 | 1,946 |
| 2007 | 600 | 39 | 273 | 386 | 214 | 1,406 | 91 | 691 | 888 | 518 |
| Averages |  |  |  |  |  |  |  |  |  |  |
| 72-07 | 728 |  | 86 |  |  | 3,541 |  | 403 |  |  |
| 98-07 | 376 | 211 | 64 | 275 | 101 | 3,144 | 1,864 | 420 | 2,313 | 830 |
| 2008 | 363 | 94 | 48 | 302 | 61 | 3,287 | 825 | 398 | 2,740 | 547 |

Appendix B. 19. Salmon catch in the combined Canadian net fisheries in the Stikine River, 1972-2008.
There was no commercial fishery in 1984.
Chinook averages only since 1983 when large and non large fish were recorded separ ESSR catches not included.


Appendix B. 20. Salmon catches in the Stikine River harvested under Canadian ESSR licenses, 1992-2008.

| Year | Tahltan Area |  |  | Tuya Area |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Catch |  |  | Tahltan | Tuya Mainstem | Tahltan |  | Total |
|  | Total | Wild | Planted |  |  | Wild | Planted |  |
| 1993 | 1,752 | 1,714 | 38 |  |  |  |  | 0 |
| 1994 | 6,852 | 5,682 | 1,170 |  |  |  |  | 0 |
| 1995 | 10,740 | 6,680 | 4,060 |  |  |  |  | 0 |
| 1996 | 14,339 | 12,667 | 1,672 |  | 216 |  |  | 216 |
| 1997 |  |  |  |  | 2,015 |  |  | 2,015 |
| 1998 |  |  |  |  | 6,103 |  |  | 6,103 |
| 1999 |  |  |  |  | 2,822 |  |  | 2,822 |
| 2000 |  |  |  |  | 1,283 |  |  | 1,283 |
| 2001 |  |  |  |  |  |  |  | 0 |
| 2002 |  |  |  |  |  |  |  | 0 |
| 2003 |  |  |  |  | 7,031 |  |  | 7,031 |
| 2004 |  |  |  |  | 1,675 |  |  | 1,675 |
| 2005 |  |  |  |  |  |  |  | 0 |
| 2006 |  |  |  |  |  |  |  | 0 |
| 2007 |  |  |  |  |  |  |  | 0 |
| 2008 |  |  |  |  |  |  |  |  |
| Salmon taken for otolith samples when ESSR not operated. |  |  |  |  |  |  |  |  |
| 1997 | 378 | 302 | 76 |  |  |  |  |  |
| 1998 | 390 | 364 | 26 |  |  |  |  |  |
| 1999 | 429 | 404 | 25 |  |  |  |  |  |
| 2000 | 406 | 324 | 82 |  |  |  |  |  |
| 2001 | 50 | 30 | 20 |  | 410 |  |  |  |
| 2002 | 400 | 285 | 115 |  | 501 |  |  |  |
| 2003 | 400 | 225 | 175 |  |  |  |  |  |
| 2004 | 420 | 225 | 195 |  |  |  |  |  |
| 2005 | 400 | 242 | 158 |  | 148 |  |  |  |
| 2006 | 400 | 206 | 194 |  | 0 |  |  |  |
| 2007 | 200 | 115 | 85 |  | 151 |  |  |  |
| 2008 | 100 | 49 | 51 |  | 280 |  |  |  |


| Experimental test fishery located in the mainstem Stikine between Tahltan and Tuya Rivers. |
| :--- |
| 2008 |

Appendix B. 21. Salmon catches and effort in Canadian test fisheries in the Stikine River, 1985-2008.

| Year | Catches |  |  |  |  |  | Effort <br> Drift=\# |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Chinook |  | Sockeye | Coho | Pink | Chum |  |
|  | Large |  |  |  |  |  |  |
|  | Caught Released | non large |  |  |  |  | Set=hr. |
| Drift Test Fishery Catches |  |  |  |  |  |  |  |
| 1985 |  |  |  |  |  |  |  |
| 1986 | 27 | 12 | 412 | 226 | 8 | 25 | 405 |
| $1987{ }^{\text {a }}$ | 128 |  | 385 | 162 | 111 | 61 | 845 |
| 1988 | 168 | 14 | 325 | 75 | 9 | 33 | 720 |
| 1989 | 116 | 4 | 364 | 242 | 41 | 46 | 870 |
| 1990 | 167 | 6 | 447 | 134 | 5 | 29 | 673 |
| 1991 | 90 | 1 | 503 | 118 | 37 | 30 | 509 |
| 1992 | 135 | 27 | 393 | 75 | 13 | 23 | 312 |
| 1993 | 94 | 11 | 440 | 37 | 6 | 18 | 304 |
| 1994 | 43 | 4 | 179 | 71 | 6 | 20 | 175 |
| 1995 | 18 | 13 | 297 | 35 | 4 | 12 | 285 |
| 1996 | 42 | 5 | 262 | 55 | 4 | 55 | 245 |
| 1997 | 30 | 7 | 245 | 11 | 9 | 15 | 210 |
| 1998 | 25 | 11 | 190 | 207 | 20 | 40 | 820 |
| 1999 | 53 | 43 | 410 | 312 | 11 | 17 | 1,006 |
| 2000 | 59 | 4 | 374 | 60 | 9 | 45 | 694 |
| 2001 | 128 | 3 | 967 | 257 | 74 | 47 | 883 |
| 2002 | 63 | 50 | 744 | 306 | 14 | 31 | 898 |
| 2003 | 64 | 62 | 997 | 291 | 92 | 54 | 660 |
| 2004 | 29 | 41 | 420 | 352 | 15 | 80 | 778 |
| 2005 | 14 | 8 | 339 | 444 | 9 | 43 | 780 |
| 2006 | 0 | 0 | 299 | 343 | 21 | 24 | 720 |
| 2007 | 2 | 0 | 435 | 89 | 71 | 31 | 224 |
| Averages |  |  |  |  |  |  |  |
| 85-07 | 68 | 16 | 429 | 177 | 27 | 35 | 592 |
| 98-07 | 44 | 22 | 518 | 266 | 34 | 41 | 746 |
| 2008 | 7 | 2 | 241 | 321 | 35 | 124 | 730 |
| Set Test Fishery Catches |  |  |  |  |  |  |  |
| 1985 |  |  | 1,340 |  |  |  |  |
| 1986 |  |  |  |  |  |  |  |
| 1987 | 61 |  | 1,283 | 620 | 587 | 193 | 1,456 |
| 1988 | 101 | 15 | 922 | 130 | 23 | 65 | 1,380 |
| 1989 | 101 | 20 | 1,243 | 502 | 249 | 103 | 1,392 |
| 1990 | 64 | 12 | 1,493 | 271 | 42 | 48 | 1,212 |
| 1991 | 77 | 15 | 1,872 | 127 | 197 | 48 | 1,668 |
| 1992 | 62 | 21 | 1,971 | 193 | 56 | 43 | 1,249 |
| 1993 | 85 | 11 | 1,384 | 136 | 6 | 63 | 1,224 |
| 1994 | 74 | 34 | 414 | 0 | 0 | 0 | 456 |
| 1995 | 61 | 35 | 850 | 166 | 5 | 41 | 888 |
| 1996 | 64 | 40 | 338 | 0 | 0 | 0 | 312 |
| 1997 |  |  |  |  |  |  |  |
| 1998 |  |  |  |  |  |  |  |
| 1999 | 49 | 16 | 803 | 64 | 6 | 10 | 1,577 |
| 2000 | 87 | 0 | 1,015 | 181 | 25 | 120 | 3,715 |
| 2001 | 56 | 7 | 2,223 | 1,078 | 124 | 61 | 2,688 |
| 2002 | 48 | 56 | 3,540 | 1,323 | 13 | 48 | 2,845 |
| 2003 | 14 | 91 | 2,173 | 525 | 200 | 85 | 1,116 |
| 2004 | 22 | 39 | 918 | 135 | 41 | 103 | 524 |
| 2005 | 19 | 13 | 1,312 | 271 | 62 | 50 | 396 |
| 2006 | 0 | 0 | 629 | 181 | 90 | 24 | 312 |
| 2007 | 3 | 0 | 673 | 99 | 256 | 33 | 336 |
| Averages |  |  |  |  |  |  |  |
| 85-07 | 55 | 24 | 1,320 | 316 | 104 | 60 | 1,302 |
| 98-07 | 33 | 25 | 1,476 | 429 | 91 | 59 | 1,501 |
| $\underline{2008}$ | 6 | 8 | 870 | 216 | 94 | 154 | 396 |

Appendix B.21. Page 2 of 2.

anon large Chinook from both set and drift nets in 1987.

Appendix B. 22. Sockeye salmon stock proportions and catch by stock in the test fishery in the lower Stikine River, 1985-2008.

| Average proportions were from averages of weekly estimates. |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Catch |  |  |  |  | Proportions |  |  |  |  |  |  |
|  | Tahltan |  | Tuya Mainstem |  | Marked <br> Tahltan | Tahltan |  | Average Tahltan | Tuya Mainstem |  | Stock Id Method | Fishery Timing |
| Year | U.S. | Canada |  |  | U.S. | Canada |  |  |  |  |  |
| 1985 | 560 | 439 |  | 841 |  |  | 0.418 | 0.328 | 0.372 |  | 0.628 | circuli counts |  |
| 1986 | 164 | 127 |  | 267 |  | 0.398 | 0.308 | 0.352 |  | 0.648 | circuli counts |  |
| 1987 | 513 | 397 |  | 1,213 |  | 0.308 | 0.238 | 0.273 |  | 0.727 | circuli counts |  |
| 1988 | 408 | 295 |  | 895 |  | 0.327 | 0.237 | 0.282 |  | 0.718 | circuli counts |  |
| 1989 |  | 414 |  | 1,192 |  |  | 0.258 | 0.258 |  | 0.742 | circuli counts |  |
| 1990 |  | 822 |  | 1,058 |  |  | 0.454 | 0.454 |  | 0.546 | SPA |  |
| 1991 |  | 1,443 |  | 931 |  |  | 0.608 | 0.608 |  | 0.392 | SPA |  |
| 1992 |  | 1,912 |  | 1,046 |  |  | 0.646 | 0.646 |  | 0.354 | SPA\&GPA |  |
| 1993 |  | 2,184 |  | 1,564 |  |  | 0.583 | 0.583 |  | 0.417 | SPA\&GPA |  |
| 1994 |  | 1,228 |  | 205 |  |  | 0.857 | 0.857 |  | 0.143 | SPA\&GPA |  |
| 1995 |  | 2,064 | 20 | 486 | 729 |  | 0.803 | 0.803 | 0.008 | 0.189 | Eggs \&TMR |  |
| 1996 |  | 875 | 116 | 321 | 108 |  | 0.667 | 0.667 | 0.088 | 0.245 | Eggs \&TMR |  |
| 1997 |  | 97 | 54 | 94 | 20 |  | 0.396 | 0.396 | 0.220 | 0.384 | Eggs \&TMR |  |
| 1998 |  | 70 | 51 | 69 | 4 |  | 0.368 | 0.368 | 0.268 | 0.363 | Eggs \&TMR |  |
| 1999 |  | 3,031 | 1,564 | 1,301 | 113 |  | 0.514 | 0.514 | 0.265 | 0.221 | Eggs \&TMR |  |
| 2000 |  | 605 | 982 | 791 | 94 |  | 0.254 | 0.254 | 0.413 | 0.333 | Eggs \&TMR | commercia |
| 2001 |  | 684 | 924 | 1,673 | 124 |  | 0.208 | 0.208 | 0.282 | 0.510 | Eggs \&TMR | commercia |
| 2002 |  | 1,726 | 694 | 1,992 | 402 |  | 0.391 | 0.391 | 0.157 | 0.451 | Eggs \&TMR | commercia |
| 2003 |  | 1,505 | 428 | 1,423 | 374 |  | 0.448 | 0.448 | 0.128 | 0.424 | Eggs \&TMR | commercia |
| 2004 |  | 686 | 44 | 608 | 277 |  | 0.512 | 0.512 | 0.033 | 0.455 | Eggs \&TMR | commercia |
| 2005 |  | 895 | 8 | 748 | 327 |  | 0.542 | 0.542 | 0.005 | 0.453 | Eggs \&TMR | commercia |
| 2006 |  | 329 | 13 | 586 | 183 |  | 0.355 | 0.355 | 0.014 | 0.631 | Eggs \&TMR | commercia |
| 2007 |  | 290 | 84 | 734 | 116 |  | 0.262 | 0.262 | 0.076 | 0.662 | Eggs \&TMR | test |
| Averages |  |  |  |  |  |  |  |  |  |  |  | test |
| 85-07 |  |  |  |  |  |  |  | 0.452 | 0.151 | 0.462 |  | test |
| 98-07 |  |  |  |  |  |  |  | 0.386 | 0.164 | 0.450 |  | commercia |
| 2008 |  | 428 | 296 | 387 | 203 |  | 0.385 | 0.385 | 0.266 | 0.348 | Eggs \&TMR | commercia |

Appendix B. 23. Estimated proportion of inriver run comprised of Tahltan, Tuya, and mainstem sockeye salmon stocks, 1979-2008.
Average proportions were from averages of weekly stock composition
and migratory timing (from drift test fishery) estimates.

| Year | Tahltan |  |  | Tuya | Mainstem Stock Id Method | Fishery <br> Timing |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | U.S. | Canada | verage |  |  |  |
| 1979 | 0.433 |  |  |  | 0.567 circuli counts |  |
| 1980 | 0.305 |  |  |  | 0.695 circuli counts |  |
| 1981 | 0.475 |  |  |  | 0.525 circuli counts |  |
| 1982 | 0.618 |  |  |  | 0.382 circuli counts |  |
| 1983 | 0.489 | 0.423 | 0.456 |  | 0.544 circuli counts |  |
| 1984 | 0.635 | 0.394 | 0.493 |  | 0.507 SPA |  |
| 1985 | 0.621 | 0.363 | 0.466 |  | 0.534 SPA |  |
| 1986 | 0.398 | 0.500 | 0.449 |  | 0.551 SPA\&GPA |  |
| 1987 | 0.338 | 0.257 | 0.304 |  | 0.696 SPA\&GPA |  |
| 1988 | 0.209 | 0.122 | 0.172 |  | 0.828 SPA\&GPA |  |
| 1989 |  | 0.188 |  |  | 0.812 Eggs \&TMR |  |
| 1990 |  | 0.417 |  |  | 0.583 Eggs \&TMR |  |
| 1991 |  | 0.561 |  |  | 0.439 Eggs \&TMR |  |
| 1992 |  | 0.496 |  |  | 0.504 Eggs \&TMR |  |
| 1993 |  | 0.477 |  |  | 0.523 Eggs \&TMR |  |
| 1994 |  | 0.606 |  |  | 0.394 Eggs \&TMR | commerci |
| 1995 |  | 0.578 |  | 0.016 | 0.406 Eggs \&TMR | commerci |
| 1996 |  | 0.519 |  | 0.104 | 0.377 Eggs \&TMR | commerci |
| 1997 |  | 0.297 |  | 0.229 | 0.474 Eggs \&TMR | commerci |
| 1998 |  | 0.309 |  | 0.348 | 0.344 Eggs \&TMR | commerci |
| 1999 |  | 0.545 |  | 0.245 | 0.209 Eggs \&TMR | commerci |
| 2000 |  | 0.260 |  | 0.391 | 0.349 Eggs \&TMR | commerci |
| 2001 |  | 0.202 |  | 0.268 | 0.530 Eggs \&TMR | test |
| 2002 |  | 0.360 |  | 0.141 | 0.498 Eggs \&TMR | test |
| 2003 |  | 0.421 |  | 0.158 | 0.421 Eggs \&TMR | test |
| 2004 |  | 0.664 |  | 0.026 | 0.311 Eggs \&TMR | commerci |
| 2005 |  | 0.662 |  | 0.020 | 0.318 Eggs \&TMR | commerci |
| 2006 |  | 0.672 |  | 0.144 | 0.185 Eggs \&TMR | commerci |
| 2007 |  | 0.541 |  | 0.165 | 0.294 Eggs \&TMR | commerci |
| Averages |  |  |  |  |  |  |
| 79-07 |  |  | 0.446 |  | 0.476 |  |
| 98-07 |  |  | 0.463 | 0.191 | 0.346 |  |
| 2008 |  | 0.385 | 0.385 | 0.326 | 0.289 Eggs \&TMR | commerci |

Appendix B. 24. Counts of adult sockeye salmon migrating through Tahltan Lake weir, 1959-2008.

| Daily cYear | $\begin{array}{r} \text { Weir } \\ \text { Installed } \end{array}$ | Date of Arrival |  |  | Weir Pulled | $\begin{array}{r} \text { Total } \\ \text { Count } \\ \hline \end{array}$ | Broodstock | ESSR | Otolith Samples | Spawners |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | First | 50\% | 90\% |  |  |  |  |  | Total | Natural Hatchery |  |
| 1959 | 30-Jun | 2-Aug | 12-Aug | 16-Aug |  | 4,311 |  |  |  |  |  |  |
| 1960 | 15-Jul | 2-Aug | 24-Aug | 27-Aug |  | 6,387 |  |  |  |  |  |  |
| 1961 | 20-Jul | 9-Aug | 11-Aug | 15-Aug |  | 16,619 |  |  |  |  |  |  |
| 1962 | 1-Aug | 2-Aug | 5-Aug | 8-Aug |  | 14,508 |  |  |  |  |  |  |
| 1963 | 3-Aug |  |  |  |  | 1,780 |  |  |  |  |  |  |
| 1964 | 23-Jul | 26-Jul | 14-Aug | 25-Aug |  | 18,353 |  |  |  |  |  |  |
| 1965 | 19-Jul | 18-Jul | 2-Sep | 7-Sep |  | 1,471 |  |  |  |  |  |  |
| 1966 | 12-Jul | 3-Aug | 13-Aug | 21-Aug |  | 21,580 |  |  |  |  |  |  |
| 1967 | 11-Jul | 14-Jul | 21-Jul | 28-Jul |  | 38,801 |  |  |  |  |  |  |
| 1968 | 11-Jul | 21-Jul | 25-Jul | 8-Aug |  | 19,726 |  |  |  |  |  |  |
| 1969 | 7-Jul | 11-Jul | 18-Jul | 31-Jul |  | 11,805 |  |  |  |  |  |  |
| 1970 | 5-Jul | 25-Jul | 1-Aug | 11-Aug |  | 8,419 |  |  |  |  |  |  |
| 1971 | 12-Jul | 19-Jul | 28-Jul | 12-Aug |  | 18,523 |  |  |  |  |  |  |
| 1972 | 13-Jul | 13-Jul | 19-Jul | 31-Aug | 21-Aug | 52,545 |  |  |  |  |  |  |
| 1973 | 10-Jul | 24-Jul | 30-Jul | 7-Aug | 1-Sep | 2,877 |  |  |  |  |  |  |
| 1974 | 3-Jul | 28 -Jul | 3-Aug | 17-Aug | 13-Sep | 8,101 |  |  |  |  |  |  |
| 1975 | 10-Jul | 25-Jul | 8-Aug | 17-Aug | 28-Aug | 8,159 |  |  |  |  |  |  |
| 1976 | 16-Jul | 29-Jul | 1-Aug | 6-Aug | 24-Aug | 24,111 |  |  |  |  |  |  |
| 1977 | 6-Jul | 11-Jul | 16-Jul | 10-Aug | 25-Aug | 42,960 |  |  |  |  |  |  |
| 1978 | 10-Jul | 10-Jul | 20-Jul | 29-Jul | 26-Aug | 22,788 |  |  |  |  |  |  |
| 1979 | 9-Jul | 23-Jul | 1-Aug | 11-Aug | 31-Aug | 10,211 |  |  |  |  |  |  |
| 1980 | 4-Jul | 15-Jul | 22-Jul | 12-Aug | 3-Sep | 11,018 |  |  |  |  |  |  |
| 1981 | 30-Jun | 16-Jul | 26-Jul | 3-Aug | 8 -Sep | 50,790 |  |  |  |  |  |  |
| 1982 | 2-Jul | 10-Jul | 19-Jul | 29-Jul | 4-Sep | 28,257 |  |  |  |  |  |  |
| 1983 | 27-Jun | 5-Jul | 22-Jul | 5-Aug | 7-Sep | 21,256 |  |  |  |  |  |  |
| 1984 | 20-Jun | 19-Jul | 24-Jul | 3-Aug | 29-Aug | 32,777 |  |  |  |  |  |  |
| 1985 | 28-Jun | 18-Jul | 31-Jul | 6-Aug | 5-Sep | 67,326 |  |  |  |  |  |  |
| 1986 | 10-Jul | 26-Jul | 4-Aug | 11-Aug | 4-Sep | 20,280 |  |  |  |  |  |  |
| 1987 | 14-Jul | 21-Jul | 4-Aug | 13-Aug | 27-Aug | 6,958 |  |  |  |  |  |  |
| 1988 | 16-Jul | 16-Jul | 6-Aug | 14-Aug | 29-Aug | 2,536 |  |  |  |  |  |  |
| 1989 | 7-Jul | 9-Jul | 1-Aug | 14-Aug | 4-Sep | 8,316 | 2,210 |  |  | 6,106 |  |  |
| 1990 | 6-Jul | 15-Jul | 26-Jul | 3-Aug | 28-Aug | 14,927 | 3,302 |  |  | 11,625 |  |  |
| 1991 | 30-Jun | 17-Jul | 25-Jul | 7-Aug | 5-Sep | 50,135 | 3,552 |  |  | 46,583 |  |  |
| 1992 | 9-Jul | 18-Jul | 25-Jul | 3-Aug | 2-Sep | 59,907 | 3,694 |  |  | 56,213 |  |  |
| 1993 | 7-Jul | 10-Jul | 28-Jul | 10-Aug | 11-Sep | 53,362 | 4,506 | 1,752 |  | 47,104 | 46,074 | 1,030 |
| 1994 | 7-Jul | 14-Jul | 30-Jul | 9-Aug | 7-Sep | 46,363 | 3,378 | 6,852 |  | 36,133 | 29,961 | 6,172 |
| 1995 | 8-Jul | 9-Jul | 24-Jul | 12-Aug | 16-Sep | 42,317 | 4,902 | 10,740 |  | 26,675 | 16,591 | 10,084 |
| 1996 | 6-Jul | 14-Jul | 22-Jul | 4-Aug | 10-Sep | 52,500 | 4,402 | 14,339 |  | 33,759 | 29,823 | 3,936 |
| 1997 | 9-Jul | 15-Jul | 25-Jul | 26-Aug | 26-Sep | 12,483 | 2,294 |  | 378 | 9,811 | 7,829 | 1,982 |
| 1998 | 9-Jul | 11-Jul | 25-Jul | 26-Aug | 17-Sep | 12,658 | 3,099 |  | 390 | 9,169 | 8,553 | 616 |
| 1999 | 10-Jul | 19-Jul | 31-Jul | 13-Aug | 15-Sep | 10,748 | 2,870 |  | 429 | 7,449 | 6,952 | 497 |
| 2000 | 9-Jul | 21-Jul | 25-Jul | 3-Aug | 4-Sep | 6,076 | 1,717 |  | 406 | 3,953 | 3,152 | 801 |
| 2001 | 8-Jul | 19-Jul | 31-Jul | 9-Aug | 14-Sep | 14,811 | 2,386 |  | 50 | 12,375 | 7,475 | 4,900 |
| 2002 | 7-Jul | 12-Jul | 25-Jul | 8-Aug | 14-Sep | 17,740 | 3,051 |  | 400 | 14,289 | 10,490 | 3,799 |
| 2003 | 7-Jul | 11-Jul | 29-Jul | 8-Aug | 18-Sep | 53,933 | 3,946 |  | 400 | 49,587 | 27,893 | 21,694 |
| 2004 | 7-Jul | 12-Jul | 25-Jul | 10-Aug | 15-Sep | 63,372 | 4,243 |  | 420 | 58,709 | 28,715 | 29,994 |
| 2005 | 7-Jul | 11-Jul | 4-Aug | 25-Aug | 15-Sep | 43,446 | 3,424 |  | 400 | 39,622 | 23,202 | 16,420 |
| 2006 | 9-Jul | 12-Jul | 27-Jul | 20-Aug | 13-Sep | 53,855 | 3,403 |  | 400 | 50,052 | 25,926 | 24,126 |
| 2007 | 9-Jul | 20-Jul | 8-Aug | 19-Aug | 15-Sep | 21,074 | 2,839 |  | 200 | 18,035 | 10,362 | 7,673 |
| Averages |  |  |  |  |  |  |  |  |  |  |  |  |
| 59-07 | 09-Jul | 18-Jul | 30-Jul | 11-Aug | 06-Sep | 25,168 |  |  |  |  |  |  |
| 98-07 | 08-Jul | 14-Jul | 28-Jul | 15-Aug | 15-Sep | 29,771 | 3,098 |  | 350 | 26,324 | 15,272 | 11,052 |
| $\underline{2008}$ | 13-Jul | 21-Jul | 30-Jul | 10-Aug | 18-Sep | 10,516 | 2,364 |  | 100 | 8,052 | 4,132 | 3,920 |

Appendix B. 25. Aerial survey counts of Mainstem sockeye salmon stocks in the Stikine River drainage, 1984-2008.

The index represents the combined counts from eight spawning areas.
Survey conditions were exceptionally poor; therefore, the counts probably did reflect relative abundance.

| Year | Chutine River | Scud <br> River | Porcupine Christina |  | Craig Bronson River Slough |  | Verrett <br> Creek | Verrett Escapement |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Slough | Creek |  |  | Slough | 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 |  | 916 |
| 2003 | 240 | 71 | 239 |  |  | 0 | 54 |  | 604 |
| 2004 | 245 | 262 | 56 |  |  | 0 | 85 |  | 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 |
| Averages |  |  |  |  |  |  |  |  |  |
| 84-07 | 160 | 374 | 85 | 30 | 25 | 41 | 172 | 87 | 914 |
| 98-07 | 200 | 365 | 110 | 0 |  | 30 | 133 | 81 | 919 |
| 2008 | 83 | 41 | 33 | 0 |  | 0 | 15 | 231 | 403 |

Appendix B. 26. Estimates of sockeye salmon smolt migrating through Tahltan Lake smolt weir, 19842008.

| Year | Weir <br> Installed | Date of Arrival |  |  | Total Count | Total Date and Estimate Change | Smolt |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | First | 50\% | 90\% |  |  | Natural | Hatchery |
| 1984 | 10-May | 11-May | 23-May | 6-Jun |  | 218,702 |  |  |
| 1985 | 25-Apr | 23-May | 31-May | 28-May |  | 613,531 |  |  |
| 1986 | 8-May | 10-May | 31-May | 7-Jun |  | 244,330 |  |  |
| 1987 | 7-May | 15-May | 23-May | 24-May | 810,432 | 780,432 5/22-30,000 |  |  |
| 1988 | 1-May | 8-May | 20-May | 6-Jun |  | 1,170,136 |  |  |
| 1989 | 5-May | 8-May | 22-May | 6-Jun |  | 580,574 |  |  |
| 1990 | 5-May | 15-May | 29-May | 5-Jun | 595,147 | 610,407 6/14 97.5\% |  |  |
| 1991 | 5-May | 14-May | 21-May | 30-May | 1,439,676 | 1,487,265 6/13 96.8\% | 1,220,397 | 266,868 |
| 1992 | 7-May | 13-May | 21-May | 27-May | 1,516,150 | 1,555,026 6/14 97.5\% | 750,702 | 804,324 |
| 1993 | 7-May | 11-May | 17-May | 22-May |  | 3,255,045 | 2,855,562 | 399,483 |
| 1994 | 8-May | 8-May | 16-May | 12-Jun |  | 915,119 | 620,809 | 294,310 |
| 1995 | 5-May | 6-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 | 7-May | 11-May | 23-May | 30-May |  | 518,202 | 348,685 | 169,517 |
| 1998 | 7-May | 8-May | 25-May | 5-Jun |  | 540,866 | 326,420 | 214,446 |
| 1999 | 6-May | 10-May | 9-Jun | 15-Jun |  | 762,033 | 468,488 | 293,545 |
| 2000 | 7-May | 9-May | 22-May | 17-Jun |  | 619,274 | 355,618 | 263,656 |
| 2001 | 6-May | 7-May | 24-May | 18-Jun |  | 1,495,642 | 841,268 | 654,374 |
| 2002 | 6-May | 14-May | 27-May | 12-Jun |  | 1,873,598 | 1,042,435 | 831,163 |
| 2003 | 6-May | 11-May | 29-May | 6-Jun |  | 1,960,480 | 979,442 | 981,038 |
| 2004 | 6-May | 10-May | 21-May | 25-May |  | 2,116,701 | 825,513 | 1,291,188 |
| 2005 | 6-May | 7-May | 17-May | 25-May |  | 1,843,804 | 943,929 | 899,875 |
| 2006 | 6-May | 10-May | 25-May | 2-Jun |  | 2,195,266 | 1,773,062 | 422,204 |
| 2007 | 6-May | 16-May | 21-May | 28-May |  | 1,055,114 | 644,987 | 410,127 |
| Averages |  |  |  |  |  |  |  |  |
| 84-07 | 05-May | 11-May | 23-May | 03-Jun |  | 1,200,961 | 951,316 | 494,270 |
| 98-07 | 06-May | 10-May | 25-May | 06-Jun |  | 1,446,278 | 777,259 | 584,648 |
| 2008 | 06-May | 12-May | 23-May | 02-Jun |  | 1,402,995 | 870,295 | 532,700 |

Appendix B. 27. Weir counts of Chinook salmon at Little Tahltan River, 1985-2008.

| Year | Weir Installed | Date of Arrival |  |  | Total Broodstock Count and Other Sp |  | Total Natural awners |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | First | 50\% | 90\% |  |  |  |
| Large Chinook |  |  |  |  |  |  |  |
| 1985 | 3-Jul | 4-Jul | 30-Jul | 6-Aug | 3,114 | 3,114 |  |
| 1986 | 28-Jun | 29-Jun | 21-Jul | 5-Aug | 2,891 | 2,891 |  |
| 1987 | 28-Jun | 4-Jul | 24-Jul | 2-Aug | 4,783 | 4,783 |  |
| 1988 | 26-Jun | 27-Jun | 18-Jul | 3-Aug | 7,292 | 7,292 |  |
| 1989 | 25-Jun | 26-Jun | 23-Jul | 2-Aug | 4,715 | 4,715 |  |
| 1990 | 22-Jun | 29-Jun | 23-Jul | 4-Aug | 4,392 | 4,392 |  |
| 1991 | 23-Jun | 25-Jun | 20-Jul | 3-Aug | 4,506 | 4,506 |  |
| 1992 | 24-Jun | 4-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 | 2-Aug | 6,387 | -14 6,373 |  |
| 1995 | 17-Jun | 20-Jun | 17-Jul | 4-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 | $0 \quad 562$ |  |
| Averages |  |  |  |  |  |  |  |
| 85-07 | 21-Jun | 25-Jun | 20-Jul | 01-Aug | 5,990 | 5,986 |  |
| 98-07 | 20-Jun | 24-Jun | 20-Jul | 01-Aug | 6,817 | -4 6,813 |  |
| 2008 | 19-Jun | 6-Jul | 26-Jul | 4-Aug | 2,663 | 0 2,663 |  |
| non large Chinook |  |  |  |  |  |  |  |
| 1985 | 3-Jul | 4-Jul | 31-Jul | 10-Aug | 316 |  | 3,430 |
| 1986 | 28-Jun | 3-Jul | 25-Jul | 6-Aug | 572 |  | 3,463 |
| 1987 | 28-Jun | 3-Jul | 26-Jul | 6-Aug | 365 |  | 5,148 |
| 1988 | 26-Jun | 27-Jun | 17-Jul | 2-Aug | 327 |  | 7,619 |
| 1989 | 25-Jun | 26-Jun | 23-Jul | 2-Aug | 199 |  | 4,914 |
| 1990 | 22-Jun | 5-Jul | 22-Jul | 30-Jul | 417 |  | 4,809 |
| 1991 | 23-Jun | 3-Jul | 24-Jul | 7-Aug | 313 |  | 4,819 |
| 1992 | 24-Jun | 12-Jul | 22-Jul | 30-Jul | 131 |  | 6,758 |
| 1993 | 20-Jun | 30-Jun | 14-Jul | 1-Aug | 60 |  | 11,509 |
| 1994 | 18-Jun | 2-Jul | 22-Jul | 5-Aug | 121 |  | 6,508 |
| 1995 | 17-Jun | 22-Jun | 28-Jul | 10-Aug | 135 |  | 3,207 |
| 1996 | 17-Jun | 12-Jul | 25-Jul | 5-Aug | 22 |  | 4,843 |
| 1997 | 14-Jun | 26-Jun | 21-Jul | 1-Aug | 54 |  | 5,611 |
| 1998 | 13-Jun | 26-Jun | 20-Jul | 7-Aug | 37 |  | 4,916 |
| 1999 | 18-Jun | 1-Jul | 23-Jul | 6-Aug | 202 |  | 4,940 |
| 2000 | 19-Jun | 23-Jun | 20-Jul | 5-Aug | 108 |  | 6,748 |
| 2001 | 20-Jun | 23-Jun | 27-Jul | 3-Aug | 269 |  | 10,007 |
| 2002 | 20-Jun | 26-Jun | 21-Jul | 7-Aug | 618 |  | 8,108 |
| 2003 | 20-Jun | 30-Jun | 21-Jul | 5-Aug | 334 |  | 6,826 |
| 2004 | 18-Jun | 21-Jun | 19-Jul | 31-Jul | 250 |  | 16,631 |
| 2005 | 19-Jun | 29-Jun | 23-Jul | 4-Aug | 231 |  | 7,618 |
| 2006 | 20-Jun | 7-Jul | 23-Jul | 5-Aug | 93 |  | 3,953 |
| 2007 | 4-Jul | 15-Jul | 29-Jul | 1-Aug | 12 |  | 574 |
| Averages |  |  |  |  |  |  |  |
| 85-07 | 21-Jun | 30-Jun | 22-Jul | 04-Aug | 225 |  | 6,216 |
| 98-07 | 20-Jun | 29-Jun | 22-Jul | 04-Aug | 215 |  | 7,032 |
| 2008 | 19-Jun | 14-Jul | 25-Jul | 29-Jul | 139 |  | 2,802 |

Appendix B. 28. Index counts of Stikine Chinook salmon escapements, 1979-2008. Counts do not include jacks (fish < 660 mm mef length).

| Year | Inriver Run | Inrvier Catches | Escapement | Marine Catch | $\begin{aligned} & \text { Total } \quad \% \text { to } \\ & \text { Run Little Tahltan } \end{aligned}$ |  | Little Tahltan |  | Tahltan Aerial | Beatty Aerial | $\begin{gathered} \hline \text { Andrew Creek } \\ \hline \text { Foot comments } \\ \hline \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  | Weir | Aerial |  |  |  |
| 1979 |  |  |  |  |  |  |  | 1,166 | 2,118 |  | 327 Weir inc. |
| 1980 |  |  |  |  |  |  |  | 2,137 | 960 | 122 | 282 Weir inc. |
| 1981 |  |  |  |  |  |  |  | 3,334 | 1,852 | 558 | 536 Weir inc. |
| 1982 |  |  |  |  |  |  |  | 2,830 | 1,690 | 567 | 672 Weir inc. |
| 1983 |  |  |  |  |  |  |  | 594 | 453 | 83 | 366 Weir inc. |
| 1984 |  |  |  |  |  |  |  | 1,294 |  | 126 | 389 Weir inc. |
| 1985 |  |  |  |  |  |  | 3,114 | 1,598 | 1,490 | 147 | 320 Foot |
| 1986 |  |  |  |  |  |  | 2,891 | 1,201 | 1,400 | 183 | 708 Foot |
| 1987 |  |  |  |  |  |  | 4,783 | 2,706 | 1,390 | 312 | 788 Heli |
| 1988 |  |  |  |  |  |  | 7,292 | 3,796 | 4,384 | 593 | 564 Foot |
| 1989 |  |  |  |  |  |  | 4,715 | 2,527 |  | 362 | 530 Aerial |
| 1990 |  |  |  |  |  |  | 4,392 | 1,755 | 2,134 | 271 | 664 Foot |
| 1991 |  |  |  |  |  |  | 4,506 | 1,768 | 2,445 | 193 | 400 Aerial |
| 1992 |  |  |  |  |  |  | 6,627 | 3,607 | 1,891 | 362 | 778 Heli |
| 1993 |  |  |  |  |  |  | 11,437 | 4,010 | 2,249 | 757 | 1,060 Foot |
| 1994 |  |  |  |  |  |  | 6,373 | 2,422 |  | 184 | 572 Heli |
| 1995 |  |  |  |  |  |  | 3,072 | 1,117 | 696 | 152 | 343 Foot |
| 1996 | 31,718 | 2,769 | 28,949 |  |  | 0.167 | 4,821 | 1,920 | 772 | 218 | 335 Heli |
| 1997 | 31,509 | 4,513 | 26,996 |  |  | 0.205 | 5,547 | 1,907 | 260 | 218 | 293 Foot |
| 1998 | 28,133 | 2,165 | 25,968 |  |  | 0.188 | 4,873 | 1,385 | 587 | 125 | 487 Foot |
| 1999 | 23,716 | 3,769 | 19,947 |  |  | 0.237 | 4,733 | 1,379 |  |  | 605 Aerial |
| 2000 | 30,301 | 2,770 | 27,531 |  |  | 0.241 | 6,631 | 2,720 |  |  | 690 Aerial |
| 2001 | 66,646 | 4,103 | 62,543 |  |  | 0.156 | 9,730 | 4,258 |  |  | 1,054 Aerial |
| 2002 | 53,983 | 3,808 | 50,175 | 3,587 | 57,570 | 0.149 | 7,476 | issed p | survey t |  | 876 Aerial |
| 2003 | 43,022 | 3,057 | 39,965 | 3,895 | 46,917 | 0.162 | 6,492 | 1,903 |  |  | 595 Foot |
| 2004 | 52,538 | 3,638 | 48,900 | 9,599 | 62,137 | 0.335 | 16,381 | 6,014 |  |  | 1,534 Foot |
| 2005 | 60,615 | 20,049 | 39,806 | 29,760 | 89,615 | 0.182 | 7,253 |  |  |  | 1,015 Foot |
| 2006 | 40,181 | 15,776 | 24,405 | 26,771 | 66,952 | 0.158 | 3,860 |  |  |  | 1,089 Foot |
| 2007 | 25,069 | 10,509 | 14,560 | 12,433 | 37,502 | 0.039 | 562 |  |  |  | 890 Aerial |
| Averages |  |  |  |  |  |  |  |  |  |  |  |
| 79-07 |  |  |  |  |  |  | 5,981 | 2,374 | 1,575 | 291 | 647 |
| 98-07 | 42,344 |  | 35,380 |  |  |  | 6,799 | 2,943 |  |  | 884 |
| 02-07 | 45,775 |  | 36,302 | 14,550 | 60,815 | 0.171 | 7,004 | 3,959 |  |  | 1,000 |
| 2008 | 26,284 | 7,932 | 18,352 | 9,715 | 35,999 | 0.145 | 2,663 |  |  |  | 530 Heli |

Appendix B. 29. Index counts of Stikine coho salmon escapements, 1984-2008.

| Missin <br> Year | Katete |  |  | Craig | Bronson |  | Scud |  | Christina | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Date | West | Katete |  | Verrett | Slough | Slough | rcupine |  |  |
| $1984$ | 30-Oct | 147 | 313 | 0 | 15 | 42 |  |  |  | 517 |
| 1985 | 25-Oct | 590 | 1,217 | 735 | 39 | 0 | 924 | 365 |  | 3,870 |
| 1986 ( 190 |  |  |  |  |  |  |  |  |  |  |
| 1987 |  |  |  |  |  |  |  |  |  |  |
| 1988 | 28-Oct | 32 | 227 |  | 175 |  | 97 | 53 | 0 | 584 |
| 1989 | 29-Oct | 336 | 896 | 992 | 848 | 120 | 707 | 90 | 55 | 4,044 |
| 1990 | 30-Oct | 94 | 548 | 810 | 494 |  | 664 | 430 |  | 3,040 |
| 1991 | 29-Oct | 302 | 878 | 985 | 218 |  | 221 | 352 |  | 2,956 |
| 1992 | 29-Oct | 295 | 1,346 | 949 | 320 |  | 462 | 316 |  | 3,688 |
| 1993 | 30-Oct |  |  |  |  |  | 206 | 324 |  |  |
| 1994 | 1-Nov | 28 | 652 | 1,026 | 466 |  | 448 | 1,105 |  | 3,725 |
| 1995 | 30-Oct | 211 | 208 | 1,419 | 574 |  | 621 | 719 |  | 3,752 |
| 1996 | 30-Oct | 163 | 232 | 205 | 549 |  | 630 | 1,466 |  | 3,245 |
| 1997 | 1-Nov | 2 | 0 | 19 | 116 |  | 272 | 648 |  | 1,057 |
| 1998 | 30-Oct | 14 | 63 | 141 | 282 |  | 143 | 450 |  | 1,093 |
| 1999 | 5-Nov | 163 | 773 | 891 | 490 |  | 661 | 894 |  | 3,872 |
| 2000 | 2-Nov |  |  |  | 5 |  | 95 | 206 |  | 306 |
| 2001 | 2-Nov | 207 | 1,401 | 3,121 | 708 |  | 1,571 | 397 |  | 7,405 |
| 2002 | 5-Nov | 806 | 2,642 | 4,488 | 1,695 |  | 1,389 | 1,626 |  | 12,646 |
| 2003 |  |  |  |  |  |  |  |  |  |  |
| 2004 | 3-Nov | 78 | 762 | 19 | 959 |  | 173 | 1,009 |  | 3,000 |
| 2005 | 31-Oct | 300 | 1,195 | 444 | 353 |  | 218 | 689 |  | 3,199 |
| 2006 | 2-Nov | 350 | 543 | 675 | 403 |  | 95 | 147 |  | 2,213 |
| 2007 | 10-Nov | 66 | 190 | 567 | 240 |  | 153 | 341 |  | 1,557 |
| Average |  |  |  |  |  |  |  |  |  |  |
| 84-07 |  | 220 | 741 | 971 | 447 | 54 | 488 | 581 | 28 | 3,288 |
| 98-07 |  | 248 | 946 | 1,293 | 571 |  | 500 | 640 |  | 3,921 |
| 2008 | 7-Nov |  |  | 535 | 501 |  | 86 | 25 |  | 1,147 |

Appendix B. 30. Stikine River sockeye salmon run size, 1979-2008.

| The averages for 1983-1985 are averages of weekly run timing estimates as well as stock composition estimates and are not simple as Escapement includes fish later captured for broodstock and biological samples. Catches include test fishery catches. |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Inriver Run |  |  | Inriver Catch | Escapement | Marine Catch | $\begin{array}{r} \text { Total } \\ \text { Run } \\ \hline \end{array}$ |
|  | Canada | U.S. | Average |  |  |  |  |
| 1979 |  | 40,353 | 40,353 | 13,534 | 26,819 | 8,299 | 48,652 |
| 1980 |  | 62,743 | 62,743 | 20,919 | 41,824 | 23,206 | 85,949 |
| 1981 |  | 138,879 | 138,879 | 27,017 | 111,862 | 27,538 | 166,417 |
| 1982 |  | 68,761 | 68,761 | 20,540 | 48,221 | 42,408 | 111,169 |
| 1983 | 77,260 | 66,838 | 71,683 | 21,120 | 50,563 | 5,772 | 77,455 |
| 1984 | 95,454 | 59,168 | 76,211 | 5,327 | 70,884 | 7,736 | 83,947 |
| 1985 | 237,261 | 138,498 | 184,747 | 26,804 | 157,943 | 29,747 | 214,494 |
| 1986 |  |  | 69,036 | 17,846 | 51,190 | 6,420 | 75,456 |
| 1987 |  |  | 39,264 | 11,283 | 27,981 | 4,085 | 43,350 |
| 1988 |  |  | 41,915 | 16,538 | 25,377 | 3,181 | 45,096 |
| 1989 |  |  | 75,054 | 21,639 | 53,415 | 15,492 | 90,546 |
| 1990 |  |  | 57,386 | 19,964 | 37,422 | 9,856 | 67,242 |
| 1991 |  |  | 120,152 | 25,138 | 95,014 | 34,323 | 154,476 |
| 1992 |  |  | 154,542 | 29,242 | 125,300 | 77,394 | 231,936 |
| 1993 |  |  | 176,100 | 52,698 | 123,402 | 104,630 | 280,730 |
| 1994 |  |  | 127,527 | 53,380 | 74,147 | 80,509 | 208,036 |
| 1995 |  |  | 142,308 | 66,777 | 75,531 | 76,420 | 218,728 |
| 1996 |  |  | 184,400 | 90,148 | 94,252 | 188,385 | 372,785 |
| 1997 |  |  | 125,657 | 67,819 | 57,838 | 101,258 | 226,915 |
| 1998 |  |  | 90,459 | 50,096 | 40,363 | 30,989 | 121,448 |
| 1999 |  |  | 65,879 | 46,773 | 19,106 | 58,735 | 124,614 |
| 2000 |  |  | 53,145 | 31,129 | 22,016 | 25,359 | 78,504 |
| 2001 |  |  | 103,755 | 28,881 | 74,874 | 23,500 | 127,255 |
| 2002 |  |  | 68,635 | 21,706 | 46,929 | 8,076 | 76,711 |
| 2003 |  |  | 194,425 | 69,171 | 125,254 | 46,552 | 240,977 |
| 2004 |  |  | 189,415 | 88,031 | 101,384 | 122,349 | 311,764 |
| 2005 |  |  | 167,570 | 87,541 | 80,030 | 92,110 | 259,680 |
| 2006 |  |  | 193,768 | 102,333 | 91,435 | 74,426 | 268,194 |
| 2007 |  |  | 110,132 | 61,121 | 49,011 | 86,408 | 196,540 |
| Averages |  |  |  |  |  |  |  |
| 79-07 |  |  | 110,135 | 41,190 | 68,944 | 48,797 | 158,932 |
| 98-07 |  |  | 123,718 | 58,678 | 65,040 | 56,850 | 180,569 |
| 2008 |  |  | 74,275 | 36,717 | 37,558 | 45,942 | 120,217 |
| Tahltan sockeye run size |  |  |  |  |  |  |  |
| 1979 |  |  | 17,472 | 7,261 | 10,211 | 5,076 | 22,548 |
| 1980 |  |  | 19,137 | 8,119 | 11,018 | 11,239 | 30,376 |
| 1981 |  |  | 65,968 | 15,178 | 50,790 | 16,189 | 82,157 |
| 1982 |  |  | 42,493 | 14,236 | 28,257 | 20,918 | 63,412 |
| 1983 |  |  | 32,684 | 11,428 | 21,256 | 5,073 | 37,758 |
| 1984 |  |  | 37,571 | 4,794 | 32,777 | 3,102 | 40,673 |
| 1985 |  |  | 86,008 | 18,682 | 67,326 | 25,197 | 111,205 |
| 1986 |  |  | 31,015 | 10,735 | 20,280 | 2,757 | 33,771 |
| 1987 |  |  | 11,923 | 4,965 | 6,958 | 2,259 | 14,182 |
| 1988 |  |  | 7,222 | 4,686 | 2,536 | 2,129 | 9,351 |
| 1989 |  |  | 14,110 | 5,794 | 8,316 | 1,561 | 15,671 |
| 1990 |  |  | 23,923 | 8,996 | 14,927 | 2,307 | 26,230 |
| 1991 |  |  | 67,394 | 17,259 | 50,135 | 23,612 | 91,006 |
| 1992 |  |  | 76,681 | 16,774 | 59,907 | 28,218 | 104,899 |
| 1993 |  |  | 84,068 | 32,458 | 51,610 | 40,036 | 124,104 |
| 1994 |  |  | 77,239 | 37,728 | 39,511 | 65,101 | 142,340 |
| 1995 |  |  | 82,290 | 50,713 | 31,577 | 51,665 | 133,955 |
| 1996 |  |  | 95,706 | 57,545 | 38,161 | 147,435 | 243,141 |
| 1997 |  |  | 37,319 | 24,836 | 12,483 | 43,408 | 80,727 |
| 1998 |  |  | 27,941 | 15,283 | 12,658 | 7,086 | 35,027 |
| 1999 |  |  | 35,918 | 25,170 | 10,748 | 23,431 | 59,349 |
| 2000 |  |  | 13,803 | 7,727 | 6,076 | 5,340 | 19,143 |
| 2001 |  |  | 20,985 | 6,174 | 14,811 | 6,339 | 27,324 |
| 2002 |  |  | 24,736 | 6,996 | 17,740 | 2,055 | 26,791 |
| 2003 |  |  | 81,808 | 27,875 | 53,933 | 16,298 | 98,106 |
| 2004 |  |  | 125,677 | 62,305 | 63,372 | 91,535 | 217,213 |
| 2005 |  |  | 110,903 | 67,457 | 43,446 | 63,714 | 174,617 |
| 2006 |  |  | 130,174 | 76,319 | 53,855 | 54,923 | 185,097 |
| 2007 |  |  | 59,537 | 38,463 | 21,074 | 63,330 | 122,867 |
| Averages |  |  |  |  |  |  |  |
| 79-07 |  |  | 53,162 | 23,654 | 29,509 | 28,666 | 81,828 |
| 98-07 |  |  | 63,148 | 33,377 | 29,771 | 33,405 | 96,553 |
| 2008 |  |  | 28,592 | 18,076 | 10,516 | 17,743 | 46,335 |

Appendix B.30. Page 2 of 2.

| Year | Inriver Run |  |  | Inriver <br> Catch | Escapement | Marine Catch | Total Run |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Canada | U.S. | Average |  |  |  |  |
| Tuya sockeye run size |  |  |  |  |  |  |  |
| 1995 |  |  | 2,216 | 1,112 | 1,104 | 586 | 2,802 |
| 1996 |  |  | 19,158 | 8,919 | 10,239 | 19,442 | 38,600 |
| 1997 |  |  | 28,738 | 20,819 | 7,919 | 37,520 | 66,258 |
| 1998 |  |  | 31,442 | 22,911 | 8,531 | 15,941 | 47,383 |
| 1999 |  |  | 16,165 | 13,877 | 2,288 | 15,217 | 31,382 |
| 2000 |  |  | 20,779 | 14,971 | 5,808 | 13,255 | 34,034 |
| 2001 |  |  | 27,783 | 8,575 | 19,208 | 12,968 | 40,751 |
| 2002 |  |  | 9,707 | 6,519 | 3,188 | 4,058 | 13,765 |
| 2003 |  |  | 30,814 | 17,465 | 13,349 | 8,760 | 39,574 |
| 2004 |  |  | 4,909 | 3,645 | 1,264 | 4,257 | 9,166 |
| 2005 |  |  | 3,325 | 1,529 | 1,796 | 131 | 3,456 |
| 2006 |  |  | 27,806 | 17,829 | 9,977 | 10,122 | 37,928 |
| 2007 |  |  | 18,176 | 11,105 | 7,071 | 18,050 | 36,227 |
| Averages |  |  |  |  |  |  |  |
| 98-07 |  |  | 19,091 | 11,843 | 7,248 | 10,276 | 29,367 |
| 2008 |  |  | 24,183 | 13,324 | 10,858 | 17,765 | 41,948 |
| Mainstem sockeye run size |  |  |  |  |  |  |  |
| 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 | 21,490 | 47,757 |
| 1983 |  |  | 38,999 | 9,692 | 29,307 | 699 | 39,698 |
| 1984 |  |  | 38,640 | 533 | 38,107 | 4,634 | 43,274 |
| 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 | 1,826 | 29,168 |
| 1988 |  |  | 34,693 | 11,852 | 22,841 | 1,052 | 35,745 |
| 1989 |  |  | 60,944 | 15,845 | 45,099 | 13,931 | 74,875 |
| 1990 |  |  | 33,464 | 10,968 | 22,495 | 7,549 | 41,013 |
| 1991 |  |  | 52,758 | 7,879 | 44,879 | 10,712 | 63,470 |
| 1992 |  |  | 77,861 | 12,468 | 65,393 | 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 |
| 1996 |  |  | 69,536 | 23,684 | 45,852 | 21,508 | 91,044 |
| 1997 |  |  | 59,600 | 22,164 | 37,436 | 20,330 | 79,930 |
| 1998 |  |  | 31,077 | 11,902 | 19,175 | 7,962 | 39,039 |
| 1999 |  |  | 13,797 | 7,726 | 6,071 | 20,087 | 33,884 |
| 2000 |  |  | 18,563 | 8,431 | 10,132 | 6,764 | 25,327 |
| 2001 |  |  | 54,987 | 14,132 | 40,855 | 4,193 | 59,180 |
| 2002 |  |  | 34,191 | 8,191 | 26,001 | 1,963 | 36,154 |
| 2003 |  |  | 81,803 | 23,831 | 57,972 | 21,494 | 103,297 |
| 2004 |  |  | 58,828 | 22,080 | 36,748 | 26,556 | 85,385 |
| 2005 |  |  | 53,343 | 18,555 | 34,788 | 28,265 | 81,608 |
| 2006 |  |  | 35,788 | 8,185 | 27,603 | 9,381 | 45,169 |
| 2007 |  |  | 32,418 | 11,553 | 20,865 | 5,027 | 37,445 |
| Averages |  |  |  |  |  |  |  |
| 79-07 |  |  | 48,661 | 12,389 | 36,272 | 14,603 | 63,265 |
| 98-07 |  |  | 41,480 | 13,459 | 28,021 | 13,169 | 54,649 |
| $\underline{2008}$ |  |  | 21,500 | 5,316 | 16,183 | 10,434 | 31,934 |

Appendix C. 1. Weekly salmon catch and effort in the Alaskan District 111 and Subdistrict 111-32 (Taku Inlet), commercial drift gillnet fishery, 2008.

| Week | Start Date | Catch |  |  |  |  |  | Effort |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Chinook |  | Sockeye | Coho | Pink | Chum | Boats | $\begin{aligned} & \text { Days } \\ & \text { Open } \\ & \hline \end{aligned}$ | Boat <br> Days |
|  |  | Large | non large |  |  |  |  |  |  |  |
| District 111 catches |  |  |  |  |  |  |  |  |  |  |
| 25 | 15-Jun | 615 | 164 | 4,030 | 5 | 0 | 1,469 | 44 | 2.0 | 88 |
| 26 | 22-Jun | 388 | 84 | 5,247 | 18 | 8 | 12,449 | 59 | 3.0 | 177 |
| 27 | 29-Jun | 252 | 86 | 6,414 | 121 | 351 | 113,896 | 77 | 4.0 | 308 |
| 28 | 6-Jul | 151 | 73 | 5,511 | 318 | 2,548 | 167,795 | 116 | 3.0 | 348 |
| 29 | 13-Jul | 50 | 12 | 20,576 | 300 | 4,261 | 169,915 | 112 | 2.0 | 224 |
| 30 | 20-Jul | 93 | 17 | 30,152 | 1,251 | 9,392 | 181,961 | 135 | 3.0 | 405 |
| 31 | 27-Jul | 63 | 3 | 27,190 | 2,002 | 18,277 | 81,433 | 141 | 3.0 | 423 |
| 32 | 3-Aug | 27 | 0 | 12,218 | 2,881 | 38,510 | 33,596 | 114 | 3.0 | 342 |
| 33 | 10-Aug | 20 | 6 | 2,819 | 3,453 | 13,349 | 6,198 | 84 | 2.0 | 168 |
| 34 | 17-Aug | 22 | 16 | 1,652 | 4,301 | 3,056 | 2,167 | 51 | 3.0 | 153 |
| 35 | 24-Aug | 3 | 0 | 451 | 4,999 | 367 | 1,087 | 32 | 3.0 | 96 |
| 36 | 31-Aug | 18 | 9 | 237 | 6,961 | 42 | 988 | 47 | 3.0 | 141 |
| 37 | 7-Sep | 15 | 2 | 86 | 6,486 | 1 | 989 | 39 | 3.0 | 117 |
| 38 | 14-Sep | 3 | 0 | 104 | 1,893 | 0 | 101 | 24 | 3.0 | 72 |
| 39 | 21-Sep | 0 | 0 | 5 | 2,193 | 0 | 51 | 13 | 3.0 | 39 |
| 40-41 | 28-Sep-5-Oct | 1 | 0 | 1 | 167 | 0 | 0 |  |  |  |
| Total |  | 1,721 | 472 | 116,693 | 37,349 | 90,162 | 774,095 |  | 49.0 | 3,116 |


| Alaska Hatchery Contributions for Large Chinook and Coho |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | :---: |
|  |  | Large Chinook |  |  | Coho |  |
|  | Hatchery | Wild | Hatchery | Wild |  |  |
| 25 | 15-Jun | 202 | 413 | 0 | 5 |  |
| 26 | 22-Jun | 191 | 197 | 0 | 18 |  |
| 27 | 29-Jun | 187 | 65 | 0 | 121 |  |
| 28 | 6-Jul | 38 | 113 | 0 | 318 |  |
| 29 | 13-Jul | 0 | 50 | 0 | 300 |  |
| 30 | 20-Jul | 26 | 67 | 0 | 1,251 |  |
| 31 | 27-Jul | 0 | 63 | 0 | 2,002 |  |
| 32 | 3-Aug | 71 | -44 | 84 | 2,797 |  |
| 33 | 10-Aug | 0 | 20 | 238 | 3,215 |  |
| 34 | 17-Aug | 0 | 22 | 717 | 3,584 |  |
| 35 | 24-Aug | 0 | 3 | 134 | 4,865 |  |
| 36 | 31-Aug | 0 | 18 | 711 | 6,250 |  |
| 37 | 7-Sep | 0 | 15 | 560 | 5,926 |  |
| 38 | 14-Sep | 0 | 3 | 0 | 1,893 |  |
| 39 | 21-Sep | 0 | 0 | 0 | 2,193 |  |
| $40-41$ | 0 | 1 | 0 | 167 |  |  |
| Total | 28-Sep-5-Oct | 0 | 715 | 1,006 | 2,443 |  |


| Subdistrict 111-32 Catches including hatchery fish (Taku Inlet) |  |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| 25 | 15-Jun | 610 | 164 | 3,997 | 5 | 0 | 1,445 |
| 26 | 22-Jun | 335 | 66 | 4,358 | 8 | 3 | 9,546 |
| 27 | 29-Jun | 223 | 80 | 5,466 | 100 | 209 | 98,710 |
| 28 | 6-Jul | 93 | 48 | 3,737 | 180 | 1,081 | 101,384 |
| 29 | 13-Jul | 36 | 1 | 16,158 | 178 | 1,869 | 107,547 |
| 30 | 20-Jul | 52 | 12 | 22,080 | 563 | 4,801 | 105,934 |
| 31 | 27-Jul | 22 | 2 | 15,038 | 972 | 8,181 | 49,400 |
| 32 | 3-Aug | 21 | 0 | 6,677 | 1,562 | 15,381 | 22,576 |
| 33 | 10-Aug | 6 | 0 | 1,607 | 1,676 | 4,030 | 3,688 |
| 34 | 17-Aug | 21 | 16 | 1,332 | 3,626 | 1,810 | 1,614 |
| 35 | 24-Aug | 3 | 0 | 403 | 4,800 | 217 | 957 |
| 36 | 31-Aug | 0 | 0 | 196 | 5,779 | 7 | 804 |
| 37 | 7-Sep | 14 | 0 | 82 | 6,076 | 1 | 913 |
| 38 | 14-Sep | 3 | 0 | 104 | 1,893 | 0 | 101 |
| 39 | 21-Sep | 0 | 0 | 5 | 2,193 | 0 | 51 |
| $40-41$ | 28-Sep-5-Oct | 1 | 0 | 1 | 167 | 0 | 0 |
| Total |  | 1,440 | 389 | 81,241 | 29,778 | 37,590 | 504,670 |

Appendix C. 2. Estimate of the proportion of natural and planted sockeye salmon stock groups harvested in the Alaskan District 111 commercial drift gillnet fishery by week, 2008.

| Week | Kuthai | $\begin{array}{r} \text { King } \\ \text { Salmon } \end{array}$ | Little |  | Tats amenie |  | Total Taku | Crescent | Speel | Wild Snett. | U.S. <br> Hatchery |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Trapper | Mainstem | Wild | Planted |  |  |  |  |  |
| 25 | 0.826 | 0.009 | 0.000 | 0.140 | 0.000 | 0.015 | 0.990 | 0.000 | 0.004 | 0.004 | 0.006 |
| 26 | 0.748 | 0.000 | 0.000 | 0.151 | 0.000 | 0.017 | 0.917 | 0.022 | 0.020 | 0.041 | 0.042 |
| 27 | 0.375 | 0.016 | 0.000 | 0.304 | 0.000 | 0.042 | 0.737 | 0.074 | 0.139 | 0.214 | 0.049 |
| 28 | 0.121 | 0.051 | 0.071 | 0.342 | 0.048 | 0.109 | 0.741 | 0.074 | 0.079 | 0.153 | 0.106 |
| 29 | 0.019 | 0.021 | 0.069 | 0.307 | 0.173 | 0.151 | 0.740 | 0.063 | 0.053 | 0.116 | 0.144 |
| 30 | 0.000 | 0.014 | 0.000 | 0.303 | 0.153 | 0.118 | 0.588 | 0.047 | 0.047 | 0.094 | 0.318 |
| 31 | 0.000 | 0.002 | 0.000 | 0.222 | 0.201 | 0.092 | 0.517 | 0.004 | 0.041 | 0.046 | 0.438 |
| 32 | 0.000 | 0.000 | 0.000 | 0.266 | 0.222 | 0.079 | 0.567 | 0.007 | 0.036 | 0.042 | 0.390 |
| 33 | 0.000 | 0.000 | 0.000 | 0.231 | 0.257 | 0.096 | 0.585 | 0.003 | 0.018 | 0.021 | 0.394 |
| 34 | 0.000 | 0.000 | 0.000 | 0.231 | 0.257 | 0.096 | 0.585 | 0.003 | 0.018 | 0.021 | 0.394 |
| 35 | 0.000 | 0.000 | 0.000 | 0.231 | 0.257 | 0.096 | 0.585 | 0.003 | 0.018 | 0.021 | 0.394 |
| 36 | 0.000 | 0.000 | 0.000 | 0.231 | 0.257 | 0.096 | 0.585 | 0.003 | 0.018 | 0.021 | 0.394 |
| 37 | 0.000 | 0.000 | 0.000 | 0.231 | 0.257 | 0.096 | 0.585 | 0.003 | 0.018 | 0.021 | 0.394 |
| 38 | 0.000 | 0.000 | 0.000 | 0.231 | 0.257 | 0.096 | 0.585 | 0.003 | 0.018 | 0.021 | 0.394 |
| 39 | 0.000 | 0.000 | 0.000 | 0.231 | 0.257 | 0.096 | 0.585 | 0.003 | 0.018 | 0.021 | 0.394 |
| 40 | 0.000 | 0.000 | 0.000 | 0.231 | 0.257 | 0.096 | 0.585 | 0.003 | 0.018 | 0.021 | 0.394 |
| 41 | 0.000 | 0.000 | 0.000 | 0.231 | 0.257 | 0.096 | 0.585 | 0.003 | 0.018 | 0.021 | 0.394 |
| Total | 0.092 | 0.011 | 0.016 | 0.267 | 0.154 | 0.100 | 0.640 | 0.034 | 0.048 | 0.082 | 0.278 |

Appendix C. 3. Weekly stock-specific catch of wild and planted Taku River and Port Snettisham sockeye salmon harvested in the Alaskan District 111 commercial drift gillnet fishery, 2008.

| Data ba <br> Week | Kuthai | King <br> Salmon | Little <br> Trapper | Mainstem | Tatsamenie |  | Total Taku | Crescent | Speel | Wild Snett. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | Wild | Planted |  |  |  |  |
| 25 | 3,328 | 37 | 0 | 565 | 0 | 59 | 3,989 | 0 | 17 | 17 |
| 26 | 3,926 | 0 | 0 | 795 | 0 | 90 | 4,811 | 114 | 103 | 217 |
| 27 | 2,406 | 102 | 0 | 1,949 | 0 | 272 | 4,730 | 478 | 892 | 1,370 |
| 28 | 665 | 279 | 390 | 1,886 | 263 | 600 | 4,084 | 410 | 434 | 845 |
| 29 | 384 | 425 | 1,426 | 6,313 | 3,567 | 3,115 | 15,232 | 1,304 | 1,080 | 2,385 |
| 30 | 0 | 415 | 0 | 9,142 | 4,620 | 3,549 | 17,727 | 1,416 | 1,420 | 2,837 |
| 31 | 0 | 44 | 0 | 6,033 | 5,458 | 2,512 | 14,048 | 118 | 1,124 | 1,243 |
| 32 | 0 | 2 | 0 | 3,246 | 2,712 | 970 | 6,930 | 83 | 435 | 518 |
| 33 | 0 | 1 | 0 | 653 | 726 | 270 | 1,649 | 8 | 52 | 60 |
| 34 | 0 | 0 | 0 | 382 | 425 | 158 | 966 | 4 | 30 | 35 |
| 35 | 0 | 0 | 0 | 104 | 116 | 43 | 264 | 1 | 8 | 10 |
| 36 | 0 | 0 | 0 | 55 | 61 | 23 | 139 | 1 | 4 | 5 |
| 37 | 0 | 0 | 0 | 20 | 22 | 8 | 50 | 0 | 2 | 2 |
| 38 | 0 | 0 | 0 | 24 | 27 | 10 | 61 | 0 | 2 | 2 |
| 39 | 0 | 0 | 0 | 1 | 1 | 0 | 3 | 0 | 0 | 0 |
| 40 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 41 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| Total | 10,709 | 1,308 | 1,816 | 31,170 | 17,999 | 11,680 | 74,682 | 3,939 | 5,605 | 9,544 |

Appendix C. 4. Weekly salmon catch and effort in the Canadian commercial fishery in the Taku River, 2008.

| Week | StartDate | Catch |  |  |  |  |  | Effort |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Chinook |  | Sockeye | Coho | Pink | Chum | Average Permits | $\begin{gathered} \text { Days } \\ \text { Fished } \end{gathered}$ | Permit Days |
|  |  | Large ${ }^{\text {a }}$ | non large |  |  |  |  |  |  |  |
| 25 | 15-Jun | 319 | 128 | 1438 | 0 | 0 | 0 | 8.50 | 2.00 | 17.00 |
| 26 | 22-Jun | 321 | 126 | 3,164 | 0 | 0 | 0 | 9.00 | 3.00 | 27.00 |
| 27 | 29-Jun | 134 | 46 | 1,051 | 0 | 0 | 0 | 7.33 | 3.00 | 22.00 |
| 28 | 6-Jul | 65 | 20 | 426 | 16 | 0 | 0 | 5.00 | 3.00 | 15.00 |
| 29 | 13-Jul | 51 | 9 | 813 | 151 | 0 | 0 | 6.00 | 4.00 | 24.00 |
| 30 | 20-Jul | 17 | 1 | 2,418 | 370 | 0 | 0 | 9.00 | 3.00 | 27.00 |
| 31 | 27-Jul | 5 | 0 | 4,694 | 513 | 0 | 0 | 10.00 | 3.00 | 30.00 |
| 32 | 3-Aug | 1 | 0 | 2,829 | 586 | 0 | 0 | 9.00 | 3.00 | 27.00 |
| 33 | 10-Aug | 0 | 0 | 1,645 | 1,019 | 0 | 0 | 9.00 | 3.00 | 27.00 |
| 34 | 17-Aug | 0 | 0 | 806 | 1,117 | 0 | 0 | 4.83 | 6.00 | 29.00 |
| Total |  | 913 | 330 | 19,284 | 3,772 | 0 | 0 |  | 33 | 245 |

${ }^{\text {a }}$ Prior to 2005, Chinook catch was broken down into non large and non larges; therefore only total catch of chinook should be used for comparison purposes

Appendix C. 5. Weekly stock proportions of sockeye salmon harvested in the Canadian commercial fishery in the Taku River, 2008.

Data based on analysis of scale patterns and thermal marks.

| Week | Start <br> Date | Kuthai | King <br> Salmon | Little <br> Trapper | Mainstem | Tatsamenie |  | Planted Stikine |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  | Wild | Planted |  |
| 25 | 15-Jun | 0.988 | 0.000 | 0.000 | 0.012 | 0.000 | 0.000 | 0.000 |
| 26 | 22-Jun | 0.902 | 0.000 | 0.031 | 0.067 | 0.000 | 0.000 | 0.000 |
| 27 | 29-Jun | 0.854 | 0.000 | 0.003 | 0.122 | 0.000 | 0.000 | 0.021 |
| 28 | 6-Jul | 0.509 | 0.028 | 0.100 | 0.321 | 0.000 | 0.000 | 0.042 |
| 29 | 13-Jul | 0.522 | 0.054 | 0.026 | 0.397 | 0.000 | 0.000 | 0.000 |
| 30 | 20-Jul | 0.056 | 0.034 | 0.000 | 0.474 | 0.203 | 0.234 | 0.000 |
| 31 | 27-Jul | 0.000 | 0.000 | 0.112 | 0.288 | 0.470 | 0.118 | 0.011 |
| 32 | 3-Aug | 0.000 | 0.000 | 0.063 | 0.168 | 0.603 | 0.156 | 0.010 |
| 33 | 10-Aug | 0.000 | 0.000 | 0.087 | 0.232 | 0.555 | 0.116 | 0.011 |
| 34 | 17-Aug | 0.000 | 0.000 | 0.127 | 0.129 | 0.555 | 0.189 | 0.000 |
| Total |  | 0.308 | 0.007 | 0.058 | 0.222 | 0.299 | 0.099 | 0.007 |

Appendix C. 6. Weekly stock-specific catch of sockeye salmon in the Canadian commercial fishery in the Taku River, 2008.

Data based on analysis of scale patterns and thermal marks.

| Week | Start <br> Date | Kuthai | $\begin{gathered} \hline \text { King } \\ \text { Salmon } \end{gathered}$ | Little <br> Trapper | Mainstem | Tatsamenie |  | Stikine Marked |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  | Wild | Planted |  |
| 25 | 15-Jun | 1,421 | 0 | 0 | 17 | 0 | 0 | 0 |
| 26 | 22-Jun | 2,855 | 0 | 97 | 212 | 0 | 0 | 0 |
| 27 | 29-Jun | 898 | 0 | 3 | 128 | 0 | 0 | 22 |
| 28 | 6-Jul | 217 | 12 | 42 | 137 | 0 | 0 | 18 |
| 29 | 13-Jul | 424 | 44 | 21 | 323 | 0 | 0 | 0 |
| 30 | 20-Jul | 134 | 83 | 0 | 1,146 | 490 | 565 | 0 |
| 31 | 27-Jul | 0 | 0 | 526 | 1,354 | 2,208 | 555 | 50 |
| 32 | 3-Aug | 0 | 0 | 178 | 474 | 1,705 | 442 | 29 |
| 33 | 10-Aug | 0 | 0 | 143 | 381 | 912 | 190 | 17 |
| 34 | 17-Aug | 0 | 0 | 103 | 104 | 447 | 153 | 0 |
| Total |  | 5,949 | 139 | 1,114 | 4,276 | 5,763 | 1,905 | 137 |

Appendix C. 7. Weekly salmon catch and effort in the Canadian test and stock assessment fisheries in the Taku River, 2008.

| Week | Catch |  |  |  |  |  |  | Effort |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Start | Chinook |  | Sockeye | Coho | Pink | Chum | Average Permits | $\begin{gathered} \text { Days } \\ \text { Fished } \\ \hline \end{gathered}$ | Permit Days |
|  | Date | Large | non large |  |  |  |  |  |  |  |
| 18 | 27-Apr | 105 | 3 | 0 | 0 | 0 | 0 | 2.0 | 1.9 | 3.8 |
| 19 | 4-May | 195 | 11 | 0 | 0 | 0 | 0 | 3.5 | 1.4 | 5.0 |
| 20 | 11-May | 293 | 30 | 0 | 0 | 0 | 0 | 4.0 | 1.5 | 5.8 |
| 21 | 18-May | 282 | 33 | 0 | 0 | 0 | 0 | 5.0 | 1.3 | 6.7 |
| 22 | 25-May | 224 | 19 | 0 | 0 | 0 | 0 | 6.0 | 3.0 | 18.0 |
| 23 | 1-Jun | 211 | 21 | 0 | 0 | 0 | 0 | 6.0 | 0.3 | 1.6 |
| 24 | 8-Jun | 89 | 22 | 10 | 0 | 0 | 0 | 9.0 | 0.3 | 2.4 |
| Total |  | 1,399 | 139 | 10 | 0 | 0 | 0 |  | 10 | 43 |
| released | 2-Sept-8-Oct |  |  | 32 | 1,102 |  | 26 |  |  |  |

Appendix C. 8. Mark-recapture estimate of above border run of Chinook, sockeye, and coho salmon in the Taku River, 2008.

| Recovery Week | Start <br> Date | Above Border Run |  | Canadian Harvests |  |  |  | AboveBorderEscapement |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  | Commercial | Test | Aboriginal | Recreational |  |
| Inseason Chinook Estimates |  |  |  |  |  |  |  |  |
| 18 | 27-Apr |  |  |  | 105 |  |  |  |
| 19 | 4-May | 1,293 |  |  | 300 |  |  | 993 |
| 20 | 11-May | 4,198 |  |  | 593 |  |  | 3,605 |
| 21 | 18-May | 7,290 |  |  | 875 |  |  | 6,415 |
| 22 | 25-May | 11,030 |  |  | 1,099 |  |  | 9,931 |
| 23 | 1-Jun | 13,877 |  |  | 1,310 |  |  | 12,567 |
| 24 | 8 -Jun | 18,724 |  |  | 1,399 |  |  | 17,325 |
| 25 | 15-Jun | 21,748 |  | 319 | 1,399 |  |  | 20,030 |
| 26 | 22-Jun | 22,153 |  | 640 | 1,399 |  |  | 20,114 |
| 27 | 29-Jun | 23,659 |  | 774 | 1,399 |  |  | 21,486 |
| 28 | 6-Jul | 23,985 |  | 839 | 1,399 |  |  | 21,747 |
| 29 | 13-Jul | 24,022 |  | 890 | 1,399 |  |  | 21,733 |
| 30 | 20-Jul | 23,204 |  | 907 | 1,399 |  |  | 20,898 |
| Inseason Estimate |  | 23,204 |  | 907 | 1,399 |  |  | 20,898 |
| Final escapement estimate |  | 29,801 |  | 913 | 1,399 | 1 | 105 | 27,383 |
| Sockeye |  |  |  |  |  |  |  |  |
| 22 | 25-May |  | 139 |  |  |  |  | 139 |
| 23 | 1-Jun |  | 2,397 |  |  |  |  | 2,397 |
| 24 | 8-Jun | 657 | 657 | 0 | 10 |  |  | 647 |
| 25 | 15-Jun | 1,821 | 1,821 | 1,438 | 0 |  |  | 383 |
| 26 | 22-Jun | 3,352 | 3,352 | 3,164 | 0 |  |  | 188 |
| 27 | 29-Jun | 2,185 | 2,185 | 1,051 | 0 |  |  | 1,134 |
| 28 | 6-Jul | 8,446 | 8,446 | 426 | 0 |  |  | 8,020 |
| 29 | 13-Jul | 21,487 | 21,487 | 813 | 0 |  |  | 20,674 |
| 30 | 20-Jul | 19,564 | 19,564 | 2,418 | 0 |  |  | 17,146 |
| 31 | 27-Jul | 6,169 | 6,169 | 4,694 | 0 |  |  | 1,475 |
| 32 | 3-Aug | 6,731 | 6,731 | 2,829 | 0 |  |  | 3,902 |
| 33 | 10-Aug | 8,700 | 8,700 | 1,645 | 0 |  |  | 7,055 |
| 34 | 17-Aug | 4,961 | 4,961 | 806 | 0 |  |  | 4,155 |
| 35 | 24-Aug |  | 782 | 0 | 0 |  |  | 782 |
| 36 | 31-Aug |  | 46 | 0 |  |  |  | 46 |
| 37 | 7-Sep |  | 132 | 0 |  |  |  | 132 |
| M-R Estimate 95\% C.I. |  | 84,073 | 87,568 |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| Total Estimate |  |  | 87,568 | 19,284 | 10 | 215 |  | 68,059 |
| Coho |  |  |  |  |  |  |  |  |
| 28-31 | 6-Jul |  |  | 1,050 |  |  |  |  |
| 32 | 3-Aug |  |  | 586 |  |  |  |  |
| 33 | 10-Aug | 19,281 |  | 1,019 |  |  |  |  |
| 34 | 17-Aug | 28,803 |  | 1,117 |  |  |  |  |
| 35 | 24-Aug |  |  |  |  |  |  |  |
| 36 | 31-Aug |  |  |  | 261 |  |  |  |
| 37 | 7-Sep |  |  |  | 115 |  |  |  |
| 38-41 | 14-Sep | 103,263 |  |  | 636 |  |  |  |
| M-R Estimate |  | 103,263 |  |  |  |  |  |  |
| 95\% C.I. |  |  |  |  |  |  |  |  |
| Total Estimate |  | 99,199 |  | 3,772 | 1,012 | 67 |  | 95,360 |

Appendix C. 9. Daily counts of adult sockeye salmon passing through Tatsamenie weir, 2008.

| Date | Count | Cumulative |  |
| :---: | :---: | :---: | :---: |
|  |  | Count | Percent |
| 7-Aug | 0 | 0 | 0.0 |
| 8-Aug | 0 | 0 | 0.0 |
| 9-Aug | 0 | 0 | 0.0 |
| 10-Aug | 8 | 8 | 0.1 |
| 11-Aug | 15 | 23 | 0.3 |
| 12-Aug | 26 | 49 | 0.5 |
| 13-Aug | 96 | 145 | 1.6 |
| 14-Aug | 67 | 212 | 2.4 |
| 15-Aug | 23 | 235 | 2.6 |
| 16-Aug | 83 | 318 | 3.5 |
| 17-Aug | 89 | 407 | 4.5 |
| 18-Aug | 40 | 447 | 5.0 |
| 19-Aug | 72 | 519 | 5.8 |
| 20-Aug | 81 | 600 | 6.7 |
| 21-Aug | 83 | 683 | 7.6 |
| 22-Aug | 147 | 830 | 9.2 |
| 23-Aug | 205 | 1,035 | 11.5 |
| 24-Aug | 309 | 1,344 | 15.0 |
| 25-Aug | 460 | 1,804 | 20.1 |
| 26-Aug | 676 | 2,480 | 27.6 |
| 27-Aug | 352 | 2,832 | 31.6 |
| 28-Aug | 201 | 3,033 | 33.8 |
| 29-Aug | 551 | 3,584 | 39.9 |
| 30-Aug | 385 | 3,969 | 44.2 |
| 31-Aug | 398 | 4,367 | 48.7 |
| 1-Sep | 394 | 4,761 | 53.0 |
| 2-Sep | 118 | 4,879 | 54.4 |
| 3-Sep | 521 | 5,400 | 60.2 |
| 4-Sep | 246 | 5,646 | 62.9 |
| 5-Sep | 214 | 5,860 | 65.3 |
| 6-Sep | 76 | 5,936 | 66.1 |
| 7-Sep | 92 | 6,028 | 67.2 |
| 8-Sep | 98 | 6,126 | 68.2 |
| 9-Sep | 232 | 6,358 | 70.8 |
| 10-Sep | 92 | 6,450 | 71.9 |
| 11-Sep | 193 | 6,643 | 74.0 |
| 12-Sep | 219 | 6,862 | 76.4 |
| 13-Sep | 113 | 6,975 | 77.7 |
| 14-Sep | 196 | 7,171 | 79.9 |
| 15-Sep | 108 | 7,279 | 81.1 |
| 16-Sep | 2 | 7,281 | 81.1 |
| 17-Sep | 427 | 7,708 | 85.9 |
| 18-Sep | 42 | 7,750 | 86.3 |
| 19-Sep | 564 | 8,314 | 92.6 |
| 20-Sep | 23 | 8,337 | 92.9 |
| 21-Sep | 120 | 8,457 | 94.2 |
| 22-Sep | 31 | 8,488 | 94.6 |
| 23-Sep | 91 | 8,579 | 95.6 |
| 24-Sep | 9 | 8,588 | 95.7 |
| 25-Sep | 64 | 8,652 | 96.4 |
| 26-Sep | 47 | 8,699 | 96.9 |
| 27-Sep | 52 | 8,751 | 97.5 |
| 28-Sep | 18 | 8,769 | 97.7 |
| 29-Sep | 10 | 8,779 | 97.8 |
| 30-Sep | 14 | 8,793 | 98.0 |
| 1-Oct | 54 | 8,847 | 98.6 |
| 2-Oct | 28 | 8,875 | 98.9 |
| 3-Oct | 29 | 8,904 | 99.2 |
| 4-Oct | 11 | 8,915 | 99.3 |
| 5-Oct | 43 | 8,958 | 99.8 |
| 6-Oct | 1 | 8,959 | 99.8 |
| 7-Oct | 0 | 8,959 | 99.8 |
| 8-Oct | 17 | 8,976 | 100.0 |
| 9 -Oct | 0 | 8,976 | 100.0 |
| 10-Oct | 0 | 8,976 | 100.0 |
| 11-Oct | 0 | 8,976 | 100.0 |
| Counts |  | 8,976 |  |
| Outlet spawners |  | <15 |  |
| Broodstock |  | -2,800 |  |
| Spawners ${ }^{\text {a }}$ |  | 6,176 |  |

[^0]and mortalities and released fish. It is not know if the released fish spawned successfully

Appendix C. 10. Daily counts of adult sockeye salmon passing through Little Trapper Lake weir, 2008.

| Date | Count | Cumulative |  |
| :---: | :---: | :---: | :---: |
|  |  | Count | Percent |
| 22-Jul | 0 | 0 | 0.00 |
| 23-Jul | 0 | 0 | 0.00 |
| 24-Jul | 0 | 0 | 0.00 |
| 25-Jul | 0 | 0 | 0.00 |
| 26-Jul | 0 | 0 | 0.00 |
| 27-Jul | 0 | 0 | 0.00 |
| 28-Jul | 0 | 0 | 0.00 |
| 29-Jul | 0 | 0 | 0.00 |
| 30-Jul | 0 | 0 | 0.00 |
| 31-Jul | 0 | 0 | 0.00 |
| 1-Aug | 0 | 0 | 0.00 |
| 2-Aug | 2 | 2 | 0.05 |
| 3-Aug | 1 | 3 | 0.08 |
| 4-Aug | 2 | 5 | 0.13 |
| 5-Aug | 28 | 33 | 0.86 |
| 6-Aug | 90 | 123 | 3.21 |
| 7-Aug | 191 | 314 | 8.20 |
| 8-Aug | 562 | 876 | 22.87 |
| 9-Aug | 558 | 1,434 | 37.43 |
| 10-Aug | 544 | 1,978 | 51.63 |
| 11-Aug | 313 | 2,291 | 59.80 |
| 12-Aug | 163 | 2,454 | 64.06 |
| 13-Aug | 183 | 2,637 | 68.83 |
| 14-Aug | 195 | 2,832 | 73.92 |
| 15-Aug | 136 | 2,968 | 77.47 |
| 16-Aug | 21 | 2,989 | 78.02 |
| 17-Aug | 63 | 3,052 | 79.67 |
| 18-Aug | 94 | 3,146 | 82.12 |
| 19-Aug | 95 | 3,241 | 84.60 |
| 20-Aug | 66 | 3,307 | 86.32 |
| 21-Aug | 52 | 3,359 | 87.68 |
| 22-Aug | 51 | 3,410 | 89.01 |
| 23-Aug | 14 | 3,424 | 89.38 |
| 24-Aug | 117 | 3,541 | 92.43 |
| 25-Aug | 34 | 3,575 | 93.32 |
| 26-Aug | 20 | 3,595 | 93.84 |
| 27-Aug | 24 | 3,619 | 94.47 |
| 28-Aug | 7 | 3,626 | 94.65 |
| 29-Aug | 8 | 3,634 | 94.86 |
| 30-Aug | 24 | 3,658 | 95.48 |
| 31-Aug | 39 | 3,697 | 96.50 |
| 1-Sep | 31 | 3,728 | 97.31 |
| 2-Sep | 37 | 3,765 | 98.28 |
| 3-Sep | 17 | 3,782 | 98.72 |
| 4-Sep | 0 | 3,782 | 98.72 |
| 5-Sep | 27 | 3,809 | 99.43 |
| 6-Sep | 10 | 3,819 | 99.69 |
| 7-Sep | 1 | 3,820 | 99.71 |
| 8-Sep | 8 | 3,828 | 99.92 |
| 9-Sep | 1 | 3,829 | 99.95 |
| 10-Sep | 0 | 3,829 | 99.95 |
| 11-Sep | 2 | 3,831 | 100.00 |
| 12-Sep | 0 | 3,831 | 100.00 |
| 13-Sep | ed---- |  |  |
| Counts |  | 3,831 |  |
| Outlet spawners |  |  |  |
| Broodsto |  | -1,040 |  |
| Spawner |  | 2,791 |  |

${ }^{\text {a }}$ Broodstock removals included 336 females and 295 males which were spawned success mortalities, and released fish. It is not known if thte released fish spawned successfully.

Appendix C. 11. Daily counts of adult salmon passing through the King Salmon Lake weir, 2008.

| Date | Cumulative |  |  |
| :---: | :---: | :---: | :---: |
|  | Count | Count | Percent |
| 5-Jul | 0 | 0 | 0.00 |
| 6-Jul | 0 | 0 | 0.00 |
| 7-Jul | 0 | 0 | 0.00 |
| 8-Jul | 0 | 0 | 0.00 |
| 9-Jul | 0 | 0 | 0.00 |
| 10-Jul | 0 | 0 | 0.00 |
| 11-Jul | 0 | 0 | 0.00 |
| 12-Jul | 0 | 0 | 0.00 |
| 13-Jul | 0 | 0 | 0.00 |
| 14-Jul | 0 | 0 | 0.00 |
| 15-Jul | 0 | 0 | 0.00 |
| 16-Jul | 0 | 0 | 0.00 |
| 17-Jul | 0 | 0 | 0.00 |
| 18-Jul | 57 | 57 | 6.42 |
| 19-Jul | 0 | 57 | 6.42 |
| 20-Jul | 0 | 57 | 6.42 |
| 21-Jul | 23 | 80 | 9.01 |
| 22-Jul | 21 | 101 | 11.37 |
| 23-Jul | 72 | 173 | 19.48 |
| 24-Jul | 65 | 238 | 26.80 |
| 25-Jul | 0 | 238 | 26.80 |
| 26-Jul | 29 | 267 | 30.07 |
| 27-Jul | 142 | 409 | 46.06 |
| 28-Jul | 0 | 409 | 46.06 |
| 29-Jul | 7 | 416 | 46.85 |
| 30-Jul | 29 | 445 | 50.11 |
| 31-Jul | 33 | 478 | 53.83 |
| 1-Aug | 19 | 497 | 55.97 |
| 2-Aug | 27 | 524 | 59.01 |
| 3-Aug | 1 | 525 | 59.12 |
| 4-Aug | 37 | 562 | 63.29 |
| 5-Aug | 59 | 621 | 69.93 |
| 6-Aug | 30 | 651 | 73.31 |
| 7-Aug | 3 | 654 | 73.65 |
| 8-Aug | 34 | 688 | 77.48 |
| 9-Aug | 3 | 691 | 77.82 |
| 10-Aug | 75 | 766 | 86.26 |
| 11-Aug | 0 | 766 | 86.26 |
| 12-Aug | 19 | 785 | 88.40 |
| 13-Aug | 0 | 785 | 88.40 |
| 14-Aug | 45 | 830 | 93.47 |
| 15-Aug | 0 | 830 | 93.47 |
| 16-Aug | 6 | 836 | 94.14 |
| 17-Aug | 1 | 837 | 94.26 |
| 18-Aug | 1 | 838 | 94.37 |
| 19-Aug | 4 | 842 | 94.82 |
| 20-Aug | 0 | 842 | 94.82 |
| 21-Aug | 0 | 842 | 94.82 |
| 22-Aug | 46 | 888 | 100.00 |
| 23-Aug | 0 | 888 | 100.00 |
| 24-Aug | 0 | 888 | 100.00 |
| 25-Aug | 0 | 888 | 100.00 |
| Total |  | 888 |  |

Appendix C. 12. Daily counts of adult sockeye salmon passing through the Kuthai Lake weir, 2008.

| Date | Count | Cumulative |  |
| :---: | :---: | :---: | :---: |
|  |  | Count | Percent |
| 5-Jul | 0 | 0 | 0.00 |
| 6-Jul | 0 | 0 | 0.00 |
| 7-Jul | 0 | 0 | 0.00 |
| 8-Jul | 0 | 0 | 0.00 |
| 9-Jul | 0 | 0 | 0.00 |
| 10-Jul | 0 | 0 | 0.00 |
| 11-Jul | 0 | 0 | 0.00 |
| 12-Jul | 0 | 0 | 0.00 |
| 13-Jul | 0 | 0 | 0.00 |
| 14-Jul | 0 | 0 | 0.00 |
| 15-Jul | 0 | 0 | 0.00 |
| 16-Jul | 0 | 0 | 0.00 |
| 17-Jul | 0 | 0 | 0.00 |
| 18-Jul | 0 | 0 | 0.00 |
| 19-Jul | 15 | 15 | 0.97 |
| 20-Jul | 0 | 15 | 0.97 |
| 21-Jul | 8 | 23 | 1.49 |
| 22-Jul | 38 | 61 | 3.94 |
| 23-Jul | 0 | 61 | 3.94 |
| 24-Jul | 172 | 233 | 15.06 |
| 25-Jul | 39 | 272 | 17.58 |
| 26-Jul | 124 | 396 | 25.60 |
| 27-Jul | 87 | 483 | 31.22 |
| 28-Jul | 78 | 561 | 36.26 |
| 29-Jul | 100 | 661 | 42.73 |
| 30-Jul | 37 | 698 | 45.12 |
| 31-Jul | 85 | 783 | 50.61 |
| 1-Aug | 67 | 850 | 54.95 |
| 2-Aug | 76 | 926 | 59.86 |
| 3-Aug | 22 | 948 | 61.28 |
| 4-Aug | 86 | 1,034 | 66.84 |
| 5-Aug | 3 | 1,037 | 67.03 |
| 6-Aug | 9 | 1,046 | 67.61 |
| 7-Aug | 33 | 1,079 | 69.75 |
| 8-Aug | 78 | 1,157 | 74.79 |
| 9-Aug | 9 | 1,166 | 75.37 |
| 10-Aug | 44 | 1,210 | 78.22 |
| 11-Aug | 23 | 1,233 | 79.70 |
| 12-Aug | 52 | 1,285 | 83.06 |
| 13-Aug | 71 | 1,356 | 87.65 |
| 14-Aug | 58 | 1,414 | 91.40 |
| 15-Aug | 33 | 1,447 | 93.54 |
| 16-Aug | 9 | 1,456 | 94.12 |
| 17-Aug | 3 | 1,459 | 94.31 |
| 18-Aug | 11 | 1,470 | 95.02 |
| 19-Aug | 25 | 1,495 | 96.64 |
| 20-Aug | 12 | 1,507 | 97.41 |
| 21-Aug | 4 | 1,511 | 97.67 |
| 22-Aug | 0 | 1,511 | 97.67 |
| 23-Aug | 11 | 1,522 | 98.38 |
| 24-Aug | 3 | 1,525 | 98.58 |
| 25-Aug | 9 | 1,534 | 99.16 |
| 26-Aug | 7 | 1,541 | 99.61 |
| 27-Aug | 6 | 1,547 | 100.00 |
| 28-Aug | 0 | 1,547 | 100.00 |
| 29-Aug | 0 | 1,547 | 100.00 |
| Total count |  | 1,547 |  |
| Harvest above weir |  | 0 |  |
| Escapement |  | 1,547 |  |

Appendix C. 13. Daily counts of large ( $>659 \mathrm{~mm}$ MEF length) Chinook salmon carcasses at the Nakina River weir, 2008.

|  | Count |  |  |  |  |  | Cumulative |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | :---: |
| Date | Female | Male | Unknown | Combined |  | Count | Percent |  |
| 30-Jul | 0 | 0 | 0 | 0 |  | 0 | 0.00 |  |
| 31-Jul | 0 | 0 | 0 | 0 |  | 0 | 0.00 |  |
| 1-Aug | 0 | 0 | 0 | 0 |  | 0 | 0.00 |  |
| 2-Aug | 1 | 0 | 0 | 1 |  | 1 | 0.00 |  |
| 3-Aug | 0 | 0 | 0 | 0 |  | 1 | 0.00 |  |
| 4-Aug | 0 | 1 | 0 | 1 |  | 2 | 0.01 |  |
| 5-Aug | 0 | 0 | 0 | 0 |  | 2 | 0.01 |  |
| 6-Aug | 2 | 0 | 0 | 2 |  | 4 | 0.02 |  |
| 7-Aug | 2 | 1 | 0 | 3 |  | 7 | 0.03 |  |
| 8-Aug | 2 | 2 | 0 | 4 |  | 11 | 0.05 |  |
| 9-Aug | 0 | 5 | 0 | 5 |  | 16 | 0.07 |  |
| 10-Aug | 4 | 7 | 1 | 12 |  | 28 | 0.12 |  |
| 11-Aug | 7 | 10 | 1 | 18 |  | 46 | 0.20 |  |
| 12-Aug | 5 | 9 | 0 | 14 |  | 60 | 0.27 |  |
| 13-Aug | 4 | 12 | 0 | 16 |  | 76 | 0.34 |  |
| 14-Aug | 9 | 13 | 0 | 22 |  | 98 | 0.44 |  |
| 15-Aug | 6 | 6 | 0 | 12 |  | 110 | 0.49 |  |
| 16-Aug | 4 | 10 | 0 | 14 |  | 124 | 0.55 |  |
| 17-Aug | 4 | 7 | 0 | 11 |  | 135 | 0.60 |  |
| 18-Aug | 2 | 8 | 0 | 10 |  | 145 | 0.64 |  |
| 19-Aug | 4 | 9 | 0 | 13 |  | 158 | 0.70 |  |
| 20-Aug | 13 | 25 | 1 | 39 |  | 197 | 0.88 |  |
| 21-Aug | 8 | 14 | 0 | 22 |  | 219 | 0.97 |  |
| 22-Aug | 2 | 4 | 0 | 6 |  | 225 | 1.00 |  |
| 23-Aug | 0 | 0 | 0 | 0 |  | 225 | 1.00 |  |
| Total | 79 | 143 | 3 | 225 |  |  |  |  |

Appendix D. 1. Salmon catches and effort in the Alaskan District 111 and Subdistrict 111-32 (Taku Inlet) commercial drift gillnet fishery, 1960-2008.

| S. Chum and F. Chum refer to Summer and Fall runs of these fish, fish harvested prior to week 34 are considered summer chum, and fish harvested in week 34 and beyond are considered fall chum. Days open are for the entire district and include openings to harvest spawner chinook salmon, 1960-1975. |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Catch |  |  |  |  |  | Effort |  |
|  |  |  |  |  |  |  | Boat | Days |
|  | Chinook | Sockeye | Coho | Pink | S. Chum | F. Chum | Days | Open |
| District 111 Catches |  |  |  |  |  |  |  |  |
| 1960 | 8,810 | 42,819 | 22,374 | 33,155 | 8,754 | 33,098 |  | 60.0 |
| 1961 | 7,434 | 45,981 | 15,486 | 41,455 | 8,578 | 15,855 |  | 62.0 |
| 1962 | 5,931 | 36,745 | 15,661 | 17,280 | 7,453 | 13,182 |  | 52.0 |
| 1963 | 2,652 | 24,119 | 10,855 | 21,392 | 12,335 | 7,779 |  | 54.0 |
| 1964 | 2,509 | 34,140 | 29,315 | 26,593 | 4,970 | 7,883 |  | 56.0 |
| 1965 | 4,170 | 27,569 | 32,667 | 2,768 | 3,842 | 7,691 |  | 63.0 |
| 1966 | 4,829 | 33,925 | 26,065 | 23,833 | 5,015 | 30,118 |  | 64.0 |
| 1967 | 5,417 | 17,735 | 40,391 | 12,372 | 2,183 | 20,651 |  | 53.0 |
| 1968 | 4,904 | 19,501 | 39,103 | 67,365 | 5,747 | 16,143 |  | 60.0 |
| 1969 | 6,986 | 41,169 | 10,802 | 73,927 | 4,851 | 10,198 | 1,518 | 41.5 |
| 1970 | 3,357 | 50,922 | 44,960 | 197,017 | 19,593 | 90,797 | 2,688 | 53.0 |
| 1971 | 6,958 | 66,181 | 41,830 | 31,484 | 31,813 | 59,332 | 3,053 | 55.0 |
| 1972 | 10,955 | 80,404 | 49,780 | 144,339 | 67,126 | 80,831 | 3,103 | 51.0 |
| 1973 | 9,799 | 85,317 | 35,453 | 58,186 | 33,296 | 75,949 | 3,286 | 41.0 |
| 1974 | 2,908 | 38,670 | 38,667 | 57,731 | 11,263 | 75,423 | 2,315 | 29.5 |
| 1975 | 2,182 | 32,513 | 1,185 | 9,567 | 2,091 | 587 | 1,084 | 15.5 |
| 1976 | 1,757 | 61,749 | 41,729 | 14,962 | 6,027 | 75,776 | 1,914 | 25.0 |
| 1977 | 1,068 | 70,097 | 54,917 | 88,578 | 8,995 | 52,107 | 2,258 | 27.0 |
| 1978 | 1,926 | 55,398 | 31,944 | 51,385 | 9,076 | 27,178 | 2,174 | 26.0 |
| 1979 | 3,701 | 122,148 | 16,194 | 152,836 | 5,936 | 55,261 | 2,269 | 28.8 |
| 1980 | 2,251 | 123,451 | 41,677 | 296,572 | 33,627 | 159,020 | 4,123 | 30.9 |
| 1981 | 1,721 | 49,942 | 26,711 | 254,856 | 22,546 | 53,892 | 2,687 | 30.0 |
| 1982 | 3,057 | 83,625 | 29,072 | 109,297 | 14,867 | 22,741 | 2,433 | 35.5 |
| 1983 | 888 | 31,821 | 21,455 | 66,239 | 6,160 | 9,104 | 1,274 | 33.0 |
| 1984 | 1,773 | 77,233 | 33,836 | 145,971 | 45,811 | 40,930 | 2,757 | 52.5 |
| 1985 | 2,636 | 88,077 | 55,597 | 311,248 | 58,972 | 47,748 | 3,264 | 48.0 |
| 1986 | 2,584 | 73,061 | 30,512 | 16,568 | 29,909 | 28,883 | 2,129 | 32.8 |
| 1987 | 2,076 | 75,212 | 35,219 | 363,439 | 57,280 | 64,380 | 2,514 | 34.8 |
| 1988 | 1,779 | 38,923 | 44,881 | 157,831 | 80,307 | 59,271 | 2,135 | 32.0 |
| 1989 | 1,811 | 74,019 | 51,812 | 180,597 | 18,022 | 18,955 | 2,333 | 41.0 |
| 1990 | 3,480 | 126,884 | 67,530 | 153,036 | 112,336 | 33,463 | 3,188 | 38.3 |
| 1991 | 3,217 | 109,877 | 126,436 | 74,183 | 147,404 | 13,771 | 4,145 | 57.0 |
| 1992 | 2,341 | 135,411 | 172,662 | 314,445 | 97,725 | 14,802 | 4,550 | 50.0 |
| 1993 | 6,748 | 171,556 | 65,536 | 17,081 | 156,033 | 10,447 | 3,827 | 43.0 |
| 1994 | 5,047 | 105,861 | 188,501 | 401,525 | 198,002 | 16,169 | 5,078 | 66.0 |
| 1995 | 4,660 | 103,377 | 83,626 | 41,269 | 339,178 | 10,920 | 4,034 | 49.0 |
| 1996 | 2,659 | 199,014 | 33,633 | 12,660 | 347,612 | 6,455 | 3,229 | 46.0 |
| 1997 | 2,804 | 94,745 | 3,515 | 51,424 | 173,804 | 3,060 | 2,107 | 33.0 |
| 1998 | 794 | 69,677 | 28,713 | 168,283 | 291,416 | 4,695 | 3,070 | 48.0 |
| 1999 | 1,841 | 79,425 | 17,273 | 59,316 | 429,213 | 4,639 | 2,841 | 59.0 |
| 2000 | 1,137 | 168,272 | 7,546 | 54,716 | 665,582 | 3,013 | 2,919 | 40.0 |
| 2001 | 1,696 | 290,450 | 22,529 | 122,829 | 235,276 | 1,693 | 4,731 | 54.0 |
| 2002 | 1,840 | 178,488 | 39,823 | 77,562 | 230,092 | 929 | 4,095 | 62.0 |
| 2003 | 1,465 | 205,433 | 23,707 | 112,395 | 169,214 | 1,206 | 3,977 | 73.5 |
| 2004 | 2,291 | 241,254 | 45,289 | 150,272 | 125,965 | 5,422 | 3,342 | 59.0 |
| 2005 | 21,999 | 87,254 | 20,725 | 181,513 | 89,757 | 3,453 | 3,427 | 68.0 |
| 2006 | 11,106 | 134,781 | 59,422 | 185,102 | 374,130 | 7,707 | 3,517 | 89.0 |
| 2007 | 1,223 | 112,241 | 22,394 | 100,375 | 581,843 | 8,326 | 3,505 | 64.0 |
| Averages |  |  |  |  |  |  |  |  |
| 60-07 | 4,066 | 89,926 | 41,646 | 110,559 | 112,313 | 29,394 | 2,997 | 47.64 |
| 98-07 | 4,539 | 156,728 | 28,742 | 121,236 | 319,249 | 4,108 | 3,542 | 62 |
| 2008 | 1,721 | 116,693 | 37,349 | 90,162 | 768,712 | 5,383 | 3,116 | 49.00 |

-Continued-

Appendix D.1. Page 2 of 2.

| Days open are for the entire district and include openings to harvest spawner chinook salmon, 1960-1975. |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Catch |  |  |  |  |  | Effort |  |
|  |  |  |  |  |  |  | Boat | Days |
|  | Chinook | Sockeye | Coho | Pink | S. Chum | F. Chum | Days | Open |
| Subdistrict 111-32 Catches (Taku Inlet) |  |  |  |  |  |  |  |  |
| 1960 | 8,763 | 26,641 | 20,282 | 26,777 | 4,566 | 28,720 | 1,680 | 60.0 |
| 1961 | 7,269 | 30,805 | 14,618 | 34,615 | 6,863 | 14,876 | 2,901 | 62.0 |
| 1962 | 5,719 | 25,969 | 13,699 | 10,006 | 5,418 | 11,812 | 1,568 | 52.0 |
| 1963 | 2,547 | 16,079 | 9,406 | 18,102 | 8,085 | 7,071 | 1,519 | 51.0 |
| 1964 | 2,482 | 28,873 | 28,603 | 22,177 | 3,919 | 7,822 | 1,491 | 56.0 |
| 1965 | 4,146 | 23,828 | 32,382 | 2,641 | 3,604 | 7,691 | 1,332 | 60.0 |
| 1966 | 4,817 | 28,301 | 24,153 | 22,490 | 4,350 | 27,327 | 1,535 | 58.0 |
| 1967 | 5,351 | 14,537 | 39,983 | 11,619 | 1,569 | 20,463 | 1,663 | 50.0 |
| 1968 | 4,862 | 16,952 | 37,570 | 55,527 | 4,646 | 15,597 | 2,420 | 60.0 |
| 1969 | 6,874 | 38,260 | 10,131 | 66,991 | 4,233 | 9,926 | 1,413 | 42.0 |
| 1970 | 3,073 | 41,476 | 37,587 | 143,886 | 14,208 | 76,795 | 2,425 | 53.0 |
| 1971 | 6,753 | 62,459 | 38,571 | 30,765 | 31,110 | 54,696 | 2,849 | 55.0 |
| 1972 | 9,633 | 62,877 | 38,568 | 78,673 | 45,955 | 60,097 | 2,797 | 51.0 |
| 1973 | 9,525 | 80,063 | 29,770 | 55,234 | 30,817 | 61,025 | 3,135 | 41.0 |
| 1974 | 2,280 | 26,256 | 27,670 | 32,684 | 6,469 | 51,063 | 1,741 | 30.0 |
| 1975 | 1,998 | 28,201 | 429 | 8,084 | 1,639 | 31 | 986 | 15.0 |
| 1976 | 1,693 | 51,674 | 31,641 | 11,868 | 3,766 | 42,674 | 1,582 | 23.0 |
| 1977 | 754 | 47,512 | 48,403 | 67,072 | 5,436 | 43,595 | 1,879 | 27.0 |
| 1978 | 1,642 | 43,795 | 21,620 | 41,624 | 7,142 | 18,101 | 1,738 | 24.0 |
| 1979 | 3,016 | 103,043 | 12,741 | 114,324 | 4,317 | 46,142 | 2,011 | 29.0 |
| 1980 | 1,986 | 108,577 | 35,814 | 241,085 | 25,779 | 131,126 | 3,634 | 31.0 |
| 1981 | 1,325 | 39,963 | 20,936 | 98,524 | 10,407 | 40,212 | 1,740 | 22.0 |
| 1982 | 2,841 | 75,012 | 24,761 | 77,942 | 11,558 | 18,363 | 2,130 | 36.0 |
| 1983 | 689 | 25,957 | 17,665 | 40,996 | 3,171 | 7,813 | 1,065 | 31.0 |
| 1984 | 1,414 | 59,229 | 25,951 | 83,028 | 28,214 | 27,967 | 2,120 | 39.0 |
| 1985 | 2,152 | 70,160 | 45,106 | 176,710 | 35,897 | 40,530 | 2,116 | 37.0 |
| 1986 | 1,877 | 60,106 | 26,474 | 9,772 | 14,646 | 24,790 | 1,413 | 30.0 |
| 1987 | 1,534 | 54,436 | 23,342 | 200,203 | 31,992 | 28,891 | 1,517 | 30.0 |
| 1988 | 949 | 23,752 | 33,159 | 41,625 | 25,969 | 27,010 | 1,213 | 29.0 |
| 1989 | 1,606 | 68,104 | 44,034 | 141,385 | 15,254 | 15,491 | 1,909 | 36.0 |
| 1990 | 2,432 | 110,006 | 60,078 | 101,168 | 88,350 | 29,099 | 2,879 | 38.0 |
| 1991 | 2,614 | 96,006 | 118,902 | 44,347 | 97,577 | 12,279 | 3,324 | 52.0 |
| 1992 | 1,672 | 103,238 | 152,598 | 180,340 | 57,153 | 11,649 | 3,407 | 43.0 |
| 1993 | 4,413 | 144,982 | 58,062 | 8,801 | 101,356 | 7,760 | 3,372 | 43.0 |
| 1994 | 3,051 | 88,625 | 156,314 | 198,507 | 129,350 | 12,280 | 3,960 | 60.0 |
| 1995 | 3,497 | 81,266 | 70,826 | 18,469 | 192,557 | 8,786 | 3,061 | 45.0 |
| 1996 | 2,412 | 188,412 | 31,828 | 12,123 | 294,890 | 5,245 | 2,685 | 41.0 |
| 1997 | 2,724 | 84,115 | 2,993 | 38,794 | 143,354 | 1,936 | 1,761 | 30.0 |
| 1998 | 634 | 47,413 | 24,606 | 85,269 | 192,057 | 2,800 | 2,007 | 39.0 |
| 1999 | 1,762 | 68,914 | 14,086 | 43,958 | 327,706 | 2,643 | 2,563 | 58.0 |
| 2000 | 1,032 | 127,274 | 6,299 | 25,729 | 453,147 | 1,311 | 2,325 | 38.0 |
| 2001 | 1,290 | 179,683 | 12,647 | 49,174 | 141,715 | 1,012 | 3,635 | 55.0 |
| 2002 | 1,546 | 113,110 | 30,501 | 40,283 | 108,171 | 671 | 2,792 | 54.0 |
| 2003 | 1,386 | 130,303 | 20,577 | 77,459 | 106,373 | 894 | 2,685 | 64.5 |
| 2004 | 1,734 | 71,578 | 34,763 | 31,501 | 54,454 | 3,546 | 1,627 | 50.0 |
| 2005 | 21,922 | 54,847 | 17,610 | 137,791 | 49,595 | 5,084 | 2,947 | 65.0 |
| 2006 | 11,002 | 64,240 | 52,364 | 71,368 | 220,969 | 5,516 | 2,470 | 81.0 |
| 2007 | 1,098 | 71,099 | 18,096 | 57,827 | 384,357 | 5,434 | 2,941 | 64.0 |
| Averages |  |  |  |  |  |  |  |  |
| 60-07 | 3,662 | 66,834 | 35,380 | 66,445 | 73,836 | 22,618 | 2,249 | 44.59 |
| 98-07 | 4,341 | 92,846 | 23,155 | 62,036 | 203,854 | 2,891 | 2,599 | 56.85 |
| 2008 | 1,440 | 81,241 | 29,778 | 37,590 | 500,230 | 4,440 | 2,223 | 46.00 |

Appendix D. 2. Stock proportions and catches of sockeye salmon in the Alaska District 111 commercial drift gillnet fishery, 1983-2008.

| Week | Kuthai | King <br> Salmon | Little Trapper |  | Mainstem | Tatsamenie |  | Total <br> Taku | Crescent | Speel | Wild Snett. | $\begin{gathered} \hline \text { U.S. } \\ \text { Planted } \\ \hline \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Wild | Planted |  | Wild | Planted |  |  |  |  |  |
| Proportions |  |  |  |  |  |  |  |  |  |  |  |  |
| 1983 |  |  |  |  |  |  |  |  |  |  |  |  |
| 1984 |  |  |  |  |  |  |  | 0.755 |  |  | 0.245 |  |
| 1985 |  |  |  |  |  |  |  | 0.758 |  |  | 0.242 |  |
| 1986 |  |  |  |  |  |  |  | 0.838 |  |  | 0.162 |  |
| 1987 | 0.061 |  | 0.266 |  | 0.303 | 0.204 |  | 0.834 | 0.090 | 0.076 | 0.166 |  |
| 1988 | 0.078 |  | 0.234 |  | 0.376 | 0.031 |  | 0.720 | 0.157 | 0.123 | 0.280 |  |
| $1989{ }^{\text {a }}$ | 0.118 |  | 0.158 |  | 0.305 | 0.082 |  | 0.663 | 0.266 | 0.071 | 0.337 |  |
| 1990 | 0.077 |  | a |  | a | 0.156 |  | 0.849 | 0.051 | 0.100 | 0.152 |  |
| 1991 | 0.036 |  | 0.197 |  | 0.336 | 0.286 |  | 0.855 | 0.112 | 0.033 | 0.145 |  |
| 1992 | 0.039 |  | 0.297 |  | 0.373 | 0.232 |  | 0.941 | 0.059 | 0.000 | 0.059 |  |
| 1993 | 0.048 |  | 0.220 |  | 0.445 | 0.191 |  | 0.904 | 0.036 | 0.060 | 0.096 |  |
| 1994 | 0.062 |  | 0.328 |  | 0.308 | 0.123 |  | 0.822 | 0.069 | 0.109 | 0.178 |  |
| 1995 | 0.110 |  | 0.356 |  | 0.361 | 0.091 |  | 0.917 | 0.036 | 0.022 | 0.058 | 0.025 |
| 1996 | 0.046 |  | 0.214 | 0.010 | 0.428 | 0.153 | 0.029 | 0.880 | 0.018 | 0.075 | 0.093 | 0.026 |
| 1997 | 0.069 |  | 0.117 | 0.010 | 0.499 | 0.232 | 0.014 | 0.941 | 0.013 | 0.032 | 0.045 | 0.014 |
| 1998 | 0.067 |  | 0.170 | 0.011 | 0.282 | 0.286 | 0.011 | 0.826 | 0.027 | 0.026 | 0.053 | 0.120 |
| 1999 | 0.087 |  | 0.158 | 0.008 | 0.209 | 0.245 | 0.004 | 0.710 | 0.026 | 0.007 | 0.033 | 0.257 |
| 2000 | 0.176 |  | 0.259 | 0.003 | 0.235 | 0.119 | 0.005 | 0.797 | 0.049 | 0.023 | 0.072 | 0.131 |
| 2001 | 0.139 |  | 0.273 | 0.002 | 0.211 | 0.151 | 0.008 | 0.783 | 0.004 | 0.054 | 0.058 | 0.160 |
| 2002 | 0.076 |  | 0.130 | 0.000 | 0.268 | 0.207 | 0.031 | 0.713 | 0.014 | 0.032 | 0.046 | 0.241 |
| 2003 | 0.098 |  | 0.254 | 0.000 | 0.173 | 0.126 | 0.004 | 0.654 | 0.014 | 0.032 | 0.047 | 0.299 |
| 2004 | 0.087 | 0.016 | 0.225 | 0.000 | 0.398 | 0.033 | 0.004 | 0.755 | 0.009 | 0.047 | 0.064 | 0.181 |
| 2005 | 0.064 | 0.043 | 0.041 | 0.000 | 0.233 | 0.042 | 0.004 | 0.427 | 0.011 | 0.040 | 0.052 | 0.522 |
| 2006 | 0.021 | 0.024 | 0.080 | 0.000 | 0.456 | 0.040 | 0.008 | 0.629 | 0.048 | 0.097 | 0.145 | 0.226 |
| 2007 | 0.066 |  | 0.058 |  | 0.355 | 0.089 | 0.034 | 0.603 | 0.083 | 0.023 | 0.106 | 0.291 |
| Averages |  |  |  |  |  |  |  |  |  |  |  |  |
| 86-07 | 0.075 |  | 0.195 | 0.004 | 0.329 | 0.149 | 0.014 | 0.763 | 0.055 | 0.049 | 0.104 | 0.199 |
| 98-07 | 0.083 |  | 0.155 | 0.001 | 0.290 | 0.121 | 0.012 | 0.672 | 0.027 | 0.040 | 0.068 | 0.260 |
| 2008 | 0.092 | 0.011 | 0.016 |  | 0.267 | 0.154 | 0.100 | 0.640 | 0.034 | 0.048 | 0.082 | 0.278 |
| Catches |  |  |  |  |  |  |  |  |  |  |  |  |
| 1983 |  |  |  |  |  |  |  |  |  |  |  |  |
| 1984 |  |  |  |  |  |  |  | 24,025 |  |  | 7,796 |  |
| 1985 |  |  |  |  |  |  |  | 58,543 |  |  | 18,690 |  |
| 1986 |  |  |  |  |  |  |  | 73,809 |  |  | 14,268 |  |
| 1987 | 4,489 |  | 19,441 |  | 22,104 | 14,900 |  | 60,934 | 6,610 | 5,516 | 12,127 |  |
| 1988 | 5,893 |  | 17,594 |  | 28,286 | 2,352 |  | 54,124 | 11,814 | 9,274 | 21,088 |  |
| $1989{ }^{\text {a }}$ | 4,598 |  | 6,153 |  | 11,865 | 3,194 |  | 25,811 | 10,365 | 2,748 | 13,112 |  |
| 1990 | 5,696 |  | a |  | a | 11,536 |  | 62,805 | 3,789 | 7,425 | 11,214 |  |
| 1991 | 4,539 |  | 24,952 |  | 42,676 | 36,332 |  | 108,499 | 14,242 | 4,143 | 18,385 |  |
| 1992 | 4,295 |  | 32,685 |  | 40,957 | 25,475 |  | 103,412 | 6,465 | 0 | 6,465 |  |
| 1993 | 6,543 |  | 29,818 |  | 60,224 | 25,853 |  | 122,438 | 4,912 | 8,060 | 12,972 |  |
| 1994 | 10,673 |  | 56,350 |  | 52,876 | 21,139 |  | 141,038 | 11,877 | 18,641 | 30,518 |  |
| 1995 | 11,638 |  | 37,644 |  | 38,179 | 9,585 |  | 97,046 | 3,859 | 2,319 | 6,178 | 2,637 |
| 1996 | 4,788 |  | 22,109 | 1,017 | 44,278 | 15,767 | 3,049 | 91,008 | 1,901 | 7,741 | 9,642 | 2,727 |
| 1997 | 13,742 |  | 23,307 | 1,920 | 99,231 | 46,148 | 2,859 | 187,207 | 2,544 | 6,416 | 8,960 | 2,848 |
| 1998 | 6,345 |  | 16,105 | 1,031 | 26,694 | 27,107 | 1,006 | 78,288 | 2,558 | 2,510 | 5,068 | 11,389 |
| 1999 | 6,055 |  | 11,018 | 570 | 14,560 | 17,040 | 250 | 49,493 | 1,784 | 500 | 2,284 | 17,900 |
| 2000 | 14,016 |  | 20,596 | 247 | 18,680 | 9,421 | 367 | 63,327 | 3,879 | 1,814 | 5,693 | 10,405 |
| 2001 | 23,357 |  | 45,977 | 279 | 35,451 | 25,347 | 1,301 | 131,712 | 621 | 9,088 | 9,709 | 26,851 |
| 2002 | 22,042 |  | 37,862 | 0 | 77,938 | 60,109 | 9,057 | 207,008 | 4,097 | 9,331 | 13,428 | 70,014 |
| 2003 | 17,474 |  | 45,308 | 0 | 30,819 | 22,449 | 660 | 116,710 | 2,559 | 5,779 | 8,338 | 53,440 |
| 2004 | 15,462 | 2,829 | 39,989 | 0 | 70,801 | 5,876 | 767 | 134,276 | 1,622 | 8,361 | 11,431 | 32,196 |
| 2005 | 11,413 | 7,579 | 7,307 | 0 | 41,342 | 7,501 | 676 | 75,818 | 2,028 | 7,124 | 9,153 | 92,756 |
| 2006 | 1,495 | 1,715 | 5,699 | 0 | 32,591 | 2,860 | 579 | 44,940 | 3,418 | 6,953 | 10,371 | 16,161 |
| 2007 | 7,087 | 0 | 6,224 | 0 | 38,084 | 9,484 | 3,684 | 64,563 | 8,878 | 2,475 | 11,353 | 31,213 |
| Average ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |
| 86-07 | 9,419 |  | 24,420 | 390 | 41,125 | 19,227 | 2,036 | 96,318 | 5,122 | 5,867 | 11,058 | 28,514 |
| 98-07 | 12,026 | 2,913 | 22,667 | 110 | 39,626 | 17,591 | 1,955 | 95,287 | 3,042 | 5,583 | 8,770 | 37,960 |
| 2008 | 10,709 | 1,308 | 1,816 | 0 | 31,170 | 17,999 | 11,680 | 74,682 | 3,939 | 5,605 | 9,544 | 32,467 |

${ }^{\text {a }}$ The Trapper and Mainstem groups were combined in the 1989 analysis and were 45,573 fish.
${ }^{\mathrm{b}}$ Averages for individual stocks do not include 1989.

Appendix D. 3. Proportion of wild Taku River sockeye salmon in the Alaskan District 111 commercial drift gillnet catch by week, 1983-2008.
Data based on scale patterns and incidence of brain parasites and includes only wild fish (estimated from thermal mark analysis).

| Year | Week |  |  |  |  |  |  |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 |  |
| 1983 |  | 0.996 | 0.842 | 0.819 | 0.663 | 0.527 | 0.836 | 0.534 | 0.719 | 0.759 | 0.755 |
| 1984 | 0.970 | 0.956 | 0.843 | 0.670 | 0.588 | 0.712 | 0.728 | 0.809 | 0.726 |  | 0.758 |
| 1985 | 0.999 | 0.986 | 0.928 | 0.974 | 0.868 | 0.706 | 0.737 | 0.826 | 0.801 |  | 0.838 |
| 1986 | 0.938 | 0.953 | 0.873 | 0.880 | 0.852 | 0.777 | 0.851 | 0.757 | 0.893 | 0.739 | 0.834 |
| 1987 |  | 0.982 | 0.901 | 0.884 | 0.948 | 0.414 | 0.619 | 0.689 | 0.841 | 0.731 | 0.720 |
| 1988 |  | 0.964 | 0.886 | 0.889 | 0.510 | 0.643 | 0.677 | 0.528 | 0.478 | 0.346 | 0.663 |
| 1989 | 0.943 | 0.989 | 0.979 | 0.852 | 0.835 | 0.641 | 0.681 | 0.919 | 0.676 |  | 0.848 |
| 1990 | 0.874 | 0.935 | 0.904 | 0.773 | 0.782 | 0.863 | 0.943 | 0.939 | 0.878 | 0.862 | 0.855 |
| 1991 | 0.988 | 0.979 | 0.953 | 0.979 | 0.951 | 0.933 | 0.936 | 0.890 | 0.885 | 0.875 | 0.941 |
| 1992 |  | 0.978 | 0.985 | 0.956 | 0.916 | 0.943 | 0.893 | 0.858 | 0.766 | 0.766 | 0.904 |
| 1993 |  | 0.961 | 0.901 | 0.837 | 0.856 | 0.781 | 0.790 | 0.829 | 0.738 | 0.706 | 0.822 |
| 1994 |  | 1.000 | 0.981 | 0.973 | 0.967 | 0.870 | 0.835 | 0.938 | 0.804 | 0.901 | 0.917 |
| 1995 | 0.942 | 0.889 | 0.903 | 0.858 | 0.872 | 0.868 | 0.761 | 0.759 | 0.705 | 0.740 | 0.841 |
| 1996 | 1.000 | 0.998 | 0.909 | 0.974 | 0.950 | 0.991 | 0.914 | 0.945 | 0.879 | 0.804 | 0.953 |
| 1997 | 0.992 | 0.970 | 0.910 | 0.926 | 0.951 | 0.939 | 0.939 | 0.925 | 0.872 | 0.906 | 0.938 |
| 1998 |  | 0.964 | 0.974 | 0.978 | 0.971 | 0.949 | 0.948 | 0.942 | 0.997 | 0.857 | 0.955 |
| 1999 |  | 0.966 | 0.988 | 0.953 | 0.934 | 0.917 | 0.878 | 0.833 | 0.732 | 0.665 | 0.917 |
| 2000 |  | 0.973 | 0.962 | 0.958 | 0.929 | 0.898 | 0.872 | 0.907 | 0.908 | 0.858 | 0.931 |
| 2001 | 0.995 | 0.998 | 0.948 | 0.888 | 0.908 | 0.930 | 0.961 | 0.945 | 0.858 | 0.858 | 0.936 |
| 2002 | 0.986 | 0.989 | 0.993 | 0.970 | 0.872 | 0.946 | 0.829 | 0.880 | 0.851 | 0.851 | 0.933 |
| 2003 | 1.000 | 0.987 | 0.961 | 0.994 | 0.970 | 0.929 | 0.883 | 0.795 | 0.236 | 0.236 | 0.931 |
| 2004 |  | 0.968 | 0.950 | 0.930 | 0.939 | 0.884 | 0.731 | 0.799 | 0.909 | 0.891 | 0.891 |
| 2005 | 0.973 | 0.973 | 0.953 | 0.947 | 0.932 | 0.924 | 0.881 | 0.885 | 0.786 | 0.767 | 0.905 |
| 2006 | 0.957 | 0.957 | 0.912 | 0.856 | 0.896 | 0.819 | 0.802 | 0.842 | 0.970 | 0.970 | 0.914 |
| 2007 | 1.000 | 0.992 | 0.934 | 0.807 | 0.716 | 0.821 | 0.879 | 0.824 | 0.812 | 0.786 | 0.925 |
| Average |  |  |  |  |  |  |  |  |  |  |  |
| 83-07 | 0.970 | 0.972 | 0.931 | 0.901 | 0.863 | 0.825 | 0.832 | 0.832 | 0.789 | 0.767 | 0.873 |
| 98-07 | 0.985 | 0.977 | 0.957 | 0.928 | 0.907 | 0.902 | 0.866 | 0.865 | 0.806 | 0.774 | 0.924 |
| 2008 | 0.975 | 0.900 | 0.695 | 0.632 | 0.589 | 0.470 | 0.424 | 0.488 | 0.489 | 0.489 | 0.868 |

Appendix D. 4. Salmon catch in the U.S. subsistence and personal use fisheries in the Taku River, 19672008.

| The s <br> The h | fhery was miminumes | $\begin{aligned} & 1967 \text { to } 197 \\ & \text { s because } \\ & \hline \end{aligned}$ | 5 and rmits a | l use and r |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Cat |  |  |  |
| Year | Chinook | Sockeye | Coho | Pink | Chum | Permits |
| 1967 | 0 | 103 | 221 | 9 | 25 |  |
| 1968 | 3 | 41 | 196 | 19 | 10 |  |
| 1969 | 0 | 122 | 8 | 11 | 0 |  |
| 1970 | 0 | 304 | 0 | 20 | 8 |  |
| 1971 | 0 | 512 | 0 | 42 | 0 |  |
| 1972 | 0 | 554 | 0 | 103 | 7 |  |
| 1973 | 0 | 1,227 | 0 | 64 | 14 |  |
| 1974 | 0 | 1,431 | 0 | 118 | 5 |  |
| 1975 | 0 | 170 | 0 | 3 | 0 |  |
| 1976 | 0 | 351 | 4 | 22 | 0 |  |
| 1985 | 0 | 920 | 35 | 16 | 1 | 54 |
| 1989 | 25 | 562 | 57 | 591 | 16 | 75 |
| 1990 | 26 | 793 | 103 | 111 | 46 | 95 |
| 1991 | 25 | 800 | 86 | 97 | 2 | 88 |
| 1992 | 21 | 1,217 | 88 | 100 | 0 | 125 |
| 1993 | 9 | 1,201 | 25 | 93 | 3 | 128 |
| 1994 | 21 | 1,111 | 93 | 76 | 3 | 116 |
| 1995 | 18 | 990 | 97 | 40 | 6 | 106 |
| 1996 | 33 | 1,189 | 67 | 110 | 5 | 130 |
| 1997 | 16 | 1,053 | 27 | 86 | 1 | 123 |
| 1998 | 15 | 1,153 | 86 | 225 | 2 | 130 |
| 1999 | 22 | 1,254 | 44 | 105 | 3 | 147 |
| 2000 | 22 | 1,134 | 31 | 68 | 7 | 128 |
| 2001 | 8 | 1,462 | 22 | 195 | 11 | 163 |
| 2002 | 14 | 1,289 | 68 | 59 | 20 | 136 |
| 2003 | 13 | 1,126 | 57 | 237 | 2 | 123 |
| 2004 | 25 | 1,150 | 120 | 109 | 3 | 131 |
| 2005 | 32 | 1,150 | 134 | 155 | 15 | 132 |
| 2006 | 18 | 804 | 134 | 503 | 27 | 105 |
| 2007 | 22 | 566 | 60 | 247 | 0 | 91 |
| Avera |  |  |  |  |  |  |
| 67-07 | 13 | 858 | 62 | 121 | 8 |  |
| 98-07 | 19 | 1,109 | 76 | 190 | 9 | 130 |
| 2008 | 46 | 1,010 | 91 | 88 | 88 | 125 |

Appendix D. 5. Salmon catch and effort in the Canadian commercial fishery in the Taku River, 1979-2008.

| Year | Catch |  |  |  |  |  | Effort |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Chinook |  | Sockeye | Coho | Pink | Chum | $\begin{array}{r} \text { Boat } \\ \text { Days } \\ \hline \end{array}$ | $\begin{aligned} & \hline \text { Days } \\ & \text { Open } \end{aligned}$ |
|  | Large | non large |  |  |  |  |  |  |
| 1979 | 97 |  | 13,578 | 6,006 | 13,661 | 15,474 | 599 | 50.0 |
| 1980 | 225 |  | 22,602 | 6,405 | 26,821 | 18,516 | 476 | 39.0 |
| 1981 | 159 |  | 10,922 | 3,607 | 10,771 | 5,591 | 243 | 31.3 |
| 1982 | 54 |  | 3,144 | 51 | 202 | 3 | 38 | 13.0 |
| 1983 | 156 | 400 | 17,056 | 8,390 | 1,874 | 1,760 | 390 | 64.0 |
| 1984 | 294 | 221 | 27,242 | 5,357 | 6,964 | 2,492 | 288 | 30.0 |
| 1985 | 326 | 24 | 14,244 | 1,770 | 3,373 | 136 | 178 | 16.0 |
| 1986 | 275 | 77 | 14,739 | 1,783 | 58 | 110 | 148 | 17.0 |
| 1987 | 127 | 106 | 13,554 | 5,599 | 6,250 | 2,270 | 280 | 26.0 |
| 1988 | 555 | 186 | 12,014 | 3,123 | 1,030 | 733 | 185 | 14.7 |
| 1989 | 895 | 139 | 18,545 | 2,876 | 695 | 42 | 271 | 25.3 |
| 1990 | 1,258 | 128 | 21,100 | 3,207 | 378 | 12 | 295 | 28.3 |
| 1991 | 1,177 | 432 | 25,067 | 3,415 | 296 | 2 | 284 | 25.0 |
| 1992 | 1,445 | 147 | 29,472 | 4,077 | 0 | 7 | 291 | 27.0 |
| 1993 | 1,619 | 171 | 33,217 | 3,033 | 16 | 15 | 363 | 34.0 |
| 1994 | 2,065 | 235 | 28,762 | 14,531 | 168 | 18 | 497 | 74.0 |
| 1995 | 1,577 | 298 | 32,640 | 13,629 | 2 | 1 | 428 | 51.1 |
| 1996 | 3,331 | 144 | 41,665 | 5,028 | 0 | 0 | 415 | 65.0 |
| 1997 | 2,731 | 84 | 24,003 | 2,594 | 0 | 1 | 394 | 47.0 |
| 1998 | 1,107 | 227 | 19,038 | 5,090 | 0 | 2 | 299 | 42.0 |
| 1999 | 908 | 257 | 20,681 | 4,416 | 0 | 0 | 300 | 34.0 |
| 2000 | 1,576 | 87 | 28,009 | 4,395 | 0 | 0 | 351 | 39.0 |
| 2001 | 1,458 | 118 | 47,660 | 2,568 | 0 | 0 | 382 | 41.5 |
| 2002 | 1,561 | 291 | 31,053 | 3,082 | 0 | 0 | 286 | 33.0 |
| 2003 | 1,894 | 547 | 32,730 | 3,168 | 0 | 0 | 275 | 44.0 |
| 2004 | 2,082 | 335 | 20,148 | 5,966 | 0 | 0 | 294 | 40.0 |
| 2005 | 7,399 | 821 | 21,697 | 4,924 | 0 | 0 | 561 | 68.0 |
| 2006 | 7,377 | 207 | 21,099 | 8,567 | 391 | 0 | 518 | 77.0 |
| 2007 | 874 | 424 | 16,714 | 5,121 | 0 | 0 | 313 | 55.0 |
| Averages |  |  |  |  |  |  |  |  |
| 79-07 | 1,538 | 244 | 22,841 | 4,889 | 2,516 | 1,627 | 332 | 40 |
| 98-07 | 2,624 | 331 | 25,883 | 4,730 | 39 | 0 | 358 | 47 |
| 2008 | 913 | 330 | 19,284 | 3,772 | 0 | 0 | 245 | 33 |

Appendix D. 6. Sockeye salmon stock proportions and catch by stock in the Canadian commercial fishery on the Taku River, 1986-2008.

| Year | Kuthai | KingSalmon | Little Trapper |  | Mainstem | Tatsamenie |  | Marked Stikine | Total Wild | Total Planted |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Wild | Planted |  | Wild | Planted |  |  |  |
| Proportions |  |  |  |  |  |  |  |  |  |  |
| 1986 | 0.111 |  | 0.397 |  | 0.350 | 0.143 |  |  | 1.000 |  |
| 1987 | 0.062 |  | 0.201 |  | 0.649 | 0.088 |  |  | 1.000 |  |
| 1988 | 0.143 |  | 0.417 |  | 0.343 | 0.098 |  |  | 1.000 |  |
| $1989{ }^{\text {a }}$ | 0.053 |  | a |  | a | 0.203 |  |  | 1.000 |  |
| 1990 | 0.112 |  | 0.388 |  | 0.338 | 0.163 |  |  | 1.000 |  |
| 1991 | 0.064 |  | 0.308 |  | 0.452 | 0.176 |  |  | 1.000 |  |
| 1992 | 0.092 |  | 0.240 |  | 0.569 | 0.099 |  |  | 1.000 |  |
| 1993 | 0.126 |  | 0.392 |  | 0.432 | 0.049 |  |  | 1.000 |  |
| 1994 | 0.158 |  | 0.482 |  | 0.302 | 0.058 |  |  | 1.000 |  |
| 1995 | 0.047 |  | 0.427 | 0.010 | 0.373 | 0.112 | 0.031 |  | 0.959 | 0.041 |
| 1996 | 0.105 |  | 0.221 | 0.008 | 0.442 | 0.215 | 0.010 |  | 0.982 | 0.018 |
| 1997 | 0.120 |  | 0.282 | 0.019 | 0.277 | 0.294 | 0.008 |  | 0.973 | 0.027 |
| 1998 | 0.225 |  | 0.207 | 0.028 | 0.254 | 0.283 | 0.003 |  | 0.969 | 0.031 |
| 1999 | 0.389 |  | 0.305 | 0.008 | 0.145 | 0.147 | 0.006 |  | 0.986 | 0.014 |
| 2000 | 0.172 |  | 0.205 | 0.000 | 0.326 | 0.282 | 0.016 |  | 0.984 | 0.016 |
| 2001 | 0.184 |  | 0.168 | 0.000 | 0.364 | 0.246 | 0.039 |  | 0.961 | 0.039 |
| 2002 | 0.316 |  | 0.428 | 0.000 | 0.192 | 0.062 | 0.002 |  | 0.998 | 0.002 |
| 2003 | 0.231 | 0.023 | 0.378 | 0.000 | 0.271 | 0.089 | 0.008 |  | 0.992 | 0.008 |
| 2004 | 0.168 | 0.071 | 0.132 | 0.000 | 0.586 | 0.031 | 0.013 |  | 0.987 | 0.013 |
| 2005 | 0.098 | 0.038 | 0.204 | 0.000 | 0.505 | 0.143 | 0.012 |  | 0.988 | 0.012 |
| 2006 | 0.055 | 0.028 | 0.176 | 0.000 | 0.474 | 0.229 | 0.038 |  | 0.962 | 0.038 |
| 2007 | 0.102 | 0.000 | 0.101 | 0.000 | 0.524 | 0.170 | 0.096 | 0.007 | 0.897 | 0.103 |
| Averages ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |
| 86-07 | 0.147 |  | 0.289 |  | 0.389 | 0.151 |  |  | 0.983 |  |
| 98-07 | 0.194 | 0.032 | 0.231 | 0.004 | 0.364 | 0.168 | 0.023 |  | 0.973 | 0.027 |
| 2008 | 0.308 | 0.007 | 0.058 | 0.000 | 0.222 | 0.299 | 0.099 | 0.007 | 0.894 | 0.106 |
| Catch |  |  |  |  |  |  |  |  |  |  |
| 1986 | 1,629 |  | 5,855 |  | 5,152 | 2,103 |  |  | 14,739 |  |
| 1987 | 834 |  | 2,728 |  | 8,793 | 1,199 |  |  | 13,554 |  |
| 1988 | 1,715 |  | 5,005 |  | 4,122 | 1,172 |  |  | 12,014 |  |
| $1989{ }^{\text {a }}$ | 990 |  | a |  | a | 3,763 |  |  | 18,545 |  |
| 1990 | 2,355 |  | 8,183 |  | 7,131 | 3,431 |  |  | 21,100 |  |
| 1991 | 1,601 |  | 7,721 |  | 11,327 | 4,418 |  |  | 25,067 |  |
| 1992 | 2,699 |  | 7,085 |  | 16,764 | 2,924 |  |  | 29,472 |  |
| 1993 | 4,192 |  | 13,036 |  | 14,347 | 1,641 |  |  | 33,217 |  |
| 1994 | 4,544 |  | 13,858 |  | 8,684 | 1,676 |  |  | 28,762 |  |
| 1995 | 1,528 |  | 13,934 | 331 | 12,185 | 3,659 | 1,003 |  | 31,306 | 1,334 |
| 1996 | 4,357 |  | 9,195 | 331 | 18,422 | 8,959 | 401 |  | 40,933 | 732 |
| 1997 | 2,891 |  | 6,758 | 456 | 6,637 | 7,060 | 201 |  | 23,346 | 657 |
| 1998 | 4,279 |  | 3,944 | 533 | 4,829 | 5,397 | 56 |  | 18,449 | 589 |
| 1999 | 8,044 |  | 6,314 | 171 | 2,992 | 3,034 | 126 |  | 20,384 | 297 |
| 2000 | 4,809 |  | 5,745 | 0 | 9,122 | 7,897 | 436 |  | 27,573 | 436 |
| 2001 | 8,748 |  | 8,005 | 0 | 17,330 | 11,709 | 1,868 |  | 45,792 | 1,868 |
| 2002 | 9,826 |  | 13,305 | 0 | 5,948 | 1,925 | 49 |  | 31,004 | 49 |
| 2003 | 7,568 | 755 | 12,383 | 0 | 8,855 | 2,902 | 267 |  | 32,463 | 267 |
| 2004 | 3,381 | 1,430 | 2,653 | 0 | 11,799 | 620 | 266 |  | 19,882 | 266 |
| 2005 | 2,120 | 829 | 4,433 | 0 | 10,950 | 3,108 | 257 |  | 21,440 | 257 |
| 2006 | 1,168 | 589 | 3,704 | 0 | 9,993 | 4,840 | 805 |  | 20,294 | 805 |
| 2007 | 1,697 | 0 | 1,694 | 0 | 8,759 | 2,838 | 1,602 | 125 | 14,987 | 1,727 |
| Averages ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |
| 86-07 | 3,809 |  | 7,407 |  | 9,721 | 3,929 |  |  | 25,043 |  |
| 98-07 | 5,164 | 721 | 6,218 | 70 | 9,058 | 4,427 | 573 |  | 25,239 | 644 |
| 2008 | 5,949 | 139 | 1,114 | 0 | 4,276 | 5,763 | 1,905 | 137 | 17,242 | 2,042 |

${ }^{\text {a }}$ The Trapper and Mainstem groups were combined in the 1989 analysis with 13,792 fish or .744 proportion.
${ }^{\mathrm{b}}$ Averages do not include 1989.

Appendix D. 7. Salmon catches in the Canadian Aboriginal fishery on the Taku River, 1980-2008.

| Year | Chinook |  | Sockeye | Coho | Pink | Chum |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Large | non large |  |  |  |  |
| 1980 | 85 |  | 150 | 0 | 0 | 15 |
| 1981 |  |  |  |  |  |  |
| 1982 |  |  |  |  |  |  |
| 1983 | 9 |  | 0 | 0 | 0 | 0 |
| 1984 | 0 |  | 50 | 15 | 0 | 0 |
| 1985 | 4 |  | 167 | 22 | 0 | 0 |
| 1986 | 10 |  | 200 | 50 | 0 | 0 |
| 1987 | 0 |  | 96 | 113 | 0 | 0 |
| 1988 | 27 |  | 245 | 98 | 0 | 0 |
| 1989 | 6 |  | 53 | 146 | 0 | 0 |
| 1990 | 0 |  | 89 | 6 | 0 | 0 |
| 1991 | 0 |  | 150 | 20 | 0 | 0 |
| 1992 | 121 |  | 352 | 187 | 0 | 0 |
| 1993 | 25 |  | 140 | 8 | 0 | 0 |
| 1994 | 119 |  | 239 | 162 | 4 | 0 |
| 1995 | 70 |  | 71 | 109 | 0 | 7 |
| 1996 | 63 |  | 360 | 24 | 0 | 0 |
| 1997 | 103 |  | 349 | 96 | 0 | 0 |
| 1998 | 60 |  | 239 | 0 | 0 | 0 |
| 1999 | 50 |  | 382 | 471 | 0 | 0 |
| 2000 | 50 |  | 140 | 342 | 0 | 0 |
| 2001 | 125 |  | 210 | 500 | 0 | 25 |
| 2002 | 37 |  | 155 | 688 | 0 | 0 |
| 2003 | 277 | 237 | 267 | 416 | 4 | 0 |
| 2004 | 530 | 116 | 120 | 450 | 0 | 0 |
| 2005 | 212 |  | 161 | 162 | 0 | 0 |
| 2006 | 222 |  | 85 | 300 | 0 | 0 |
| 2007 | 167 | 16 | 159 | 155 | 0 | 0 |
| Averages |  |  |  |  |  |  |
| 80-07 | 91 |  | 178 | 175 | 0 | 2 |
| 98-07 | 173 |  | 192 | 348 | 0 | 3 |
| 2008 | 1 |  | 215 | 67 | 0 | 0 |

Appendix D. 8. Salmon catch in the Canadian test fishery in the Taku River, 1987-2008.

| Year | Catch |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Chinook |  | Sockeye | Coho | Pink | Chum |
|  | Large | non large |  |  |  |  |
| 1987 |  |  | 237 | 807 |  |  |
| 1988 | 72 |  | 708 | 422 | 52 | 222 |
| 1989 | 31 |  | 207 | 1,011 | 0 | 13 |
| 1990 | 48 |  | 285 | 472 | 0 | 0 |
| 1991 | 0 |  | 163 | 2,004 | 3 | 295 |
| 1992 | 0 |  | 38 | 1,277 | 0 | 76 |
| $1993{ }^{\text {a }}$ | 0 |  | 166 | 1,593 | 0 | 50 |
| 1994 | There was no Canadian test fishery in 1994. |  |  |  |  |  |
| 1995 | There was no Canadian test fishery in 1995. |  |  |  |  |  |
| 1996 | There was no Canadian test fishery in 1996. |  |  |  |  |  |
| 1997 |  |  |  |  |  |  |
| 1998 | There was no Canadian test fishery in 1998. |  |  |  |  |  |
| 1999 | 577 | 2 | 88 | 688 | 0 | 0 |
| 2000 | 1,312 | 87 | 319 | 710 | 0 | 0 |
| 2001 | 1,175 | 229 | 247 | 31 | 0 | 0 |
| 2002 | 1,311 | 355 | 518 | 32 | 0 | 0 |
| 2003 | 1,403 | 397 | 27 | 59 | 0 | 0 |
| 2004 | 1,489 | 294 | 91 | 3,268 | 0 | 0 |
| 2005 | 0 | 0 | 244 | 3,173 | 0 | 0 |
| 2006 | 630 | 9 | 262 | 2,802 | 0 | 0 |
| 2007 | 1,396 | 302 | 376 | 2,674 | 0 | 0 |
| Avera |  |  |  |  |  |  |
| 87-07 | 630 |  | 248 | 1,314 | 4 | 44 |
| 98-07 | 1,033 | 186 | 241 | 1,493 | 0 | 0 |
| 2008 | 1,399 | 139 | 10 | 0 | 0 | 0 |
| additional fish released |  |  |  |  |  |  |
|  | Catch release |  |  |  |  |  |
|  | Chinook |  | Sockeye | Coho | Pink | Chum |
|  | Large | non large |  |  |  |  |
| 1997 |  |  | , | 39 |  |  |
| 1998 |  |  |  |  |  |  |
| 1999 | 181 |  |  |  |  |  |
| 2000 | 439 |  |  |  |  |  |
| 2001 | 871 |  | 82 | 2,976 |  | 159 |
| 2002 | 1,132 |  | 161 | 3,767 | 7 | 11 |
| 2003 |  |  | 197 | 4,031 | 7 | 222 |
| 2004 |  |  |  |  |  |  |
| 2005 |  |  |  |  |  |  |
| 2006 |  |  |  |  |  |  |
| 2007 |  |  |  |  |  |  |
| 2008 |  |  | 32 | 1012 |  | 26 |

${ }^{\mathrm{a}}$ Incomplete harvest data.

Appendix D. 9. Taku River sockeye salmon run size, 1984-2008.

| Run estimate does not include spawning escapements below the U.S./Canada border. The early season sockeye expansion is based on the proportion of fish wheel sockeye catch that occurs before the fishery opens. |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Above Border M-R |  | Expansion |  | Expanded <br> Run <br> Estimate | Canadian Catch | Escape. | U.S.Catch | Total Exploitation |  |
|  | Run <br> Estimate | Start <br> Date |  |  |  |  |  |  |  |  |
|  |  |  | Method | Factor |  |  |  |  | Run | Rate |
| 1984 | 133,414 | 17-Jun | Ave.(88-90\&95-96) FW CPUE | 0.056 | 141,254 | 27,292 | 113,962 | 58,543 | 199,796 | 0.430 |
| 1985 | 118,160 | 16-Jun | Ave.(88-90\&95-96) FW CPUE | 0.047 | 123,974 | 14,411 | 109,563 | 74,729 | 198,703 | 0.449 |
| 1986 | 104,162 | 22-Jun | Ave.(88-90\&95-96) FW CPUE | 0.095 | 115,045 | 14,939 | 100,106 | 60,934 | 175,980 | 0.431 |
| 1987 | 87,554 | 21-Jun | Ave.(88-90\&95-96) FW CPUE | 0.088 | 96,023 | 13,887 | 82,136 | 55,154 | 151,178 | 0.457 |
| 1988 | 86,629 | 19-Jun | 1988 FW CPUE | 0.065 | 92,641 | 12,967 | 79,674 | 25,811 | 118,452 | 0.327 |
| 1989 | 99,467 | 18-Jun | 1989 FW CPUE | 0.128 | 114,068 | 18,805 | 95,263 | 63,367 | 177,435 | 0.463 |
| 1990 | 117,385 | 10-Jun | 1990 CPUE | 0.002 | 117,573 | 21,474 | 96,099 | 109,292 | 226,865 | 0.576 |
| 1991 | 153,773 | 9-Jun | Ave.(88-90\&95-96) FW CPUE | 0.007 | 154,873 | 25,380 | 129,493 | 104,931 | 260,103 | 0.502 |
| 1992 | 162,003 | 21-Jun | Ave.(88-90\&95-96) FW CPUE | 0.032 | 167,376 | 29,862 | 137,514 | 123,655 | 291,031 | 0.527 |
| 1993 | 138,523 | 13-Jun | Ave.(88-90\&95-96) FW CPUE | 0.026 | 142,148 | 33,523 | 108,625 | 142,239 | 284,387 | 0.618 |
| 1994 | 129,119 | 12-Jun | Ave.(88-90\&95-96) FW CPUE | 0.019 | 131,580 | 29,001 | 102,579 | 98,157 | 229,737 | 0.553 |
| 1995 | 145,264 | 11-Jun | 1995 FW CPUE | 0.008 | 146,450 | 32,711 | 113,739 | 91,998 | 238,448 | 0.523 |
| 1996 | 132,322 | 9-Jun | 1996 FW CPUE | 0.017 | 134,651 | 42,025 | 92,626 | 188,396 | 323,047 | 0.713 |
| 1997 | 93,816 | 3-May | 1997 FW CPUE | 0.017 | 95,438 | 24,352 | 71,086 | 79,341 | 174,779 | 0.593 |
| 1998 | 89,992 | 2-May | No Expansion |  | 89,992 | 19,277 | 70,715 | 50,646 | 140,638 | 0.497 |
| 1999 | 113,706 | 14-May | No Expansion |  | 113,706 | 21,151 | 92,555 | 64,581 | 178,287 | 0.481 |
| 2000 | 115,693 | 14-May | No Expansion |  | 115,693 | 28,468 | 87,225 | 132,846 | 248,539 | 0.649 |
| 2001 | 192,245 | 27-May | No Expansion |  | 192,245 | 48,117 | 144,128 | 208,470 | 400,715 | 0.640 |
| 2002 | 135,233 | 19-May | No Expansion |  | 135,233 | 31,726 | 103,507 | 117,999 | 253,232 | 0.591 |
| 2003 | 193,390 | 20-May | No Expansion |  | 193,390 | 33,024 | 160,366 | 135,402 | 328,792 | 0.512 |
| 2004 | 127,047 | 12-May | No Expansion |  | 127,047 | 20,359 | 106,688 | 76,968 | 204,015 | 0.477 |
| 2005 | 142,155 | 5-May | No Expansion |  | 142,155 | 22,102 | 120,053 | 46,090 | 188,245 | 0.362 |
| 2006 | 167,597 | 20-May | No Expansion |  | 167,597 | 21,446 | 146,151 | 65,827 | 233,424 | 0.374 |
| 2007 | 104,815 | 19-May | 2007 FW CPUE | 0.002 | 105,012 | 17,248 | 87,764 | 65,129 | 170,141 | 0.484 |
| Averages |  |  |  |  |  |  |  |  |  |  |
| 84-07 | 128,478 | 31-May |  |  | 131,465 | 25,141 | 106,324 | 93,354 | 224,832 | 0.527 |
| 98-07 | 138,187 | 15-May |  |  | 138,207 | 26,276 | 111,931 | 96,396 | 234,603 | 0.507 |
| 2008 | 84,073 | 17-May | 2008 FW CPUE | 0.040 | 87,568 | 19,509 | 68,059 | 75,692 | 163,260 | 0.583 |

Appendix D. 10. Sockeye salmon escapement estimates of Taku River and Port Snettisham sockeye salmon stocks, 1979-2008.

| Spawners equals escapement to the weir minus fish collected for brood stock. |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Little Trapper |  | Tatsamenie |  | KingSalmonWeir | Kuthai <br> Lake <br> Weir | Nahlin <br> River <br> Weir | Crescent Lake |  | Speel Lake |  |
|  | Count | Escapement | Escapement | Spawners |  |  |  | Escapement | Spawners | Escapement | Spawners |
| 1980 |  |  |  |  |  | 1,658 |  |  |  |  |  |
| 1981 |  |  |  |  |  | 2,299 |  |  |  |  |  |
| 1982 |  |  |  |  |  |  |  |  |  |  |  |
| $1983{ }^{\text {b }}$ | 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 |
| $1985{ }^{\text {b }}$ | 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 |
| $1987{ }^{\text {b }}$ | 12,007 | 12,007 | 2,794 | 2,794 |  |  |  | 7,839 | 7,839 | 9,319 | 9,319 |
| $1988^{\text {cd }}$ | 10,637 | 10,637 | 2,063 | 2,063 |  |  | 138 | 1,199 | 1,199 | 969 | 710 |
| $1989{ }^{\text {d }}$ | 9,606 | 9,606 | 3,039 | 3,039 |  |  |  | 1,109 | 775 | 12,229 | 10,114 |
| $1990{ }^{\text {d }}$ | 9,443 | 7,777 | 5,736 | 4,929 |  |  | 2,515 | 1,262 | 757 | 18,064 | 16,867 |
| $1991{ }^{\text {a }}$ | 22,942 | 21,001 | 8,381 | 7,585 |  |  |  | 9,208 | 8,666 | 299 | 299 |
| $1992{ }^{\text {ac }}$ | 14,372 | 12,732 | 6,576 | 5,681 |  | 1,457 | 297 | 22,674 | 21,849 | 9,439 | 8,136 |
| $1993{ }^{\text {d }}$ | 17,432 | 16,685 | 5,028 | 4,230 |  | 6,312 | 2,463 |  |  |  |  |
| 1994 | 13,438 | 12,691 | 4,371 | 3,578 |  | 5,427 | 960 |  |  |  |  |
| $1995{ }^{\text {ae }}$ | 11,524 | 11,524 | 8,000 | 6,607 |  | 3,310 | 3,711 |  |  | 16,208 | 14,260 |
| $1996{ }^{\text {f }}$ | 5,483 | 5,483 | 10,381 | 8,026 |  | 4,243 | 2,538 |  |  | 20,000 | 18,610 |
| $1997{ }^{\text {g }}$ | 5,924 | 5,924 | 8,363 | 5,981 |  | 5,746 | 1,857 |  |  | 4,999 |  |
| $1998{ }^{\text {h }}$ | 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 | i |
| 2001 | 16,860 | 16,860 | 22,575 | 19,579 |  | 1,663 | 935 |  |  | 8,060 |  |
| $2002{ }^{\text {j }}$ | 7,973 | 11,484 | 5,495 | 4,091 |  | 7,697 |  |  |  | 5,016 |  |
| 2003 | 31,227 | 31,227 | 4,515 | 2,965 |  | 7,769 |  |  |  | 7,014 | i |
| 2004 | 9,613 | 9,613 | 1,951 | 1,357 | 5,005 | 1,578 | 0 | na | na | 7,813 | i |
| 2005 | 16,009 | 16,009 | 3,372 | 2,445 | 1,046 | 6,004 | 0 | na | na | 7,538 | i |
| 2006 | 25,670 | 25,670 | 22,475 | 19,820 | 2,177 | 1,015 | 0 | na | na | 4,165 | i |
| 2007 | 7,153 | 6,340 | 11,187 | 8,384 | 5 | 204 | 0 | na | na | 3,099 | i |
| Averag |  |  |  |  |  |  |  |  |  |  |  |
| 83-07 | 13,143 | 12,982 | 7,675 | 6,517 |  | 4,281 | 1,126 | 8,008 | 7,788 | 8,600 | 9,252 |
| 98-07 | 14,658 | 14,928 | 8,725 | 7,083 | 2,058 | 4,200 | 213 |  |  | 7,310 |  |
| 2008 | 3,831 | 2,791 | 8,976 | 6,176 | 888 | 1,547 | 0 | na | na | 1,763 ${ }^{\text {i }}$ |  |

${ }^{\text {a }}$ Mark-recapture estimates for Crescent 91, 92 Speel 95
${ }^{\mathrm{b}}$ Weir count plus spawning ground survey. Trapper 83, 85, 87
${ }^{\mathrm{c}}$ Weir counts are incomplete. Kuthai 92, Nahlin 88, 92
${ }^{d}$ Counts may be low due to uncounted fish passage past weir. Crescent $88-90$, Speel 90 , Kuthai 93
${ }^{\text {e }}$ In 1995 the weir was moved upstream to Tatsamenie Lake, the count of 8,000 is an expansion (based on past experiance) of the 5,780 fish counted there.
${ }^{\mathrm{f}}$ The estimated return of 10,381 through the Tatsamenie Lake weir in 1996 is thought to represent approximately $80 \%$ of the sockeye run past the old weir location at Little Tatsamenie Lake. This results in a potential run of 12,976 sockeye salmon.
${ }^{g}$ The estimated return of 8,363 through the Tatsamenie Lake weir in 1997 is thought to represent approximately $80 \%$ of the sockeye run past the old weir location at L. Tatsamenie Lake resulting in a potential run of 10,454 sockeye.
${ }^{\mathrm{h}}$ The estimated count of 5,997 fish through Tatsamenie Lake weir in 1998 does not include an estimated 1,499 fish spawning in the outlet stream i.e. total estimate 7,496.
Minimum estimates of run size
${ }^{j}$ In 2002 the Trapper weir count was expanded by $69 \%$ migratory timing to account for fish passage during high water and the Kuthai weir count had 102 fish removed for an aboriginal food fishery.

Appendix D. 11. Taku River Chinook salmon run size, 1989-2008.

| Run estimate does not include spawning escapements below the U.S./Canada border. |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Above Border M-R |  | Confidence Intervals |  | Canadian Catch ${ }^{\text {a }}$ | Spawning <br> Escapement | $\begin{array}{r} \text { U.S. } \\ \text { Catch }^{\mathrm{b}} \end{array}$ | Total <br> Run |
|  | Run | Start |  |  |  |  |  |  |
|  | Estimate | Date | Lower | Upper |  |  |  |  |
| Large Fish Only |  |  |  |  |  |  |  |  |
| 1989 | 41,464 |  | 29,263 | 51,395 | 1,135 | 40,329 |  |  |
| 1990 | 53,561 |  | 33,863 | 70,421 | 1,419 | 52,142 |  |  |
| 1991 |  |  |  |  | 1,555 |  |  |  |
| 1992 |  |  |  |  | 1,636 |  |  |  |
| 1993 |  |  |  |  | 1,716 |  |  |  |
| 1994 |  |  |  |  | 2,187 |  |  |  |
| 1995 | 35,557 |  | 23,887 | 43,723 | 1,752 | 33,805 | 2,791 | 38,348 |
| 1996 | 82,518 |  | 61,285 | 96,753 | 3,499 | 79,019 | 6,399 | 88,917 |
| 1997 | 117,877 | 3-May | 79,878 | 149,998 | 2,939 | 114,938 | 7,214 | 125,091 |
| 1998 | 32,311 | 3-May | 6,108 | 55,970 | 1,272 | 31,039 | 2,361 | 34,672 |
| 1999 | 18,426 | 3-May | 11,978 | 27,490 | 1,640 | 16,786 | 3,179 | 21,605 |
| 2000 | 38,040 | 24-Apr | 19,912 | 41,146 | 3,043 | 34,997 | 1,971 | 40,011 |
| 2001 | 49,527 | 28-Apr | 30,285 | 55,675 | 2,863 | 46,664 | 1,965 | 51,492 |
| 2002 | 58,058 | 26-Apr | 30,931 | 73,887 | 3,014 | 55,044 | 3,252 | 61,310 |
| 2003 | 40,114 | 27-Apr | 25,147 | 54,387 | 3,679 | 36,435 | 2,473 | 42,587 |
| 2004 | 78,985 | 27-Apr | 50,189 | 86,209 | 3,953 | 75,032 | 3,986 | 82,971 |
| 2005 | 46,441 | 25-Apr | 37,691 | 55,442 | 7,716 | 38,725 | 22,036 | 68,477 |
| 2006 | 50,630 | 30-Apr | 39,737 | 61,617 | 8,334 | 42,296 | 12,921 | 63,551 |
| 2007 | 17,396 | 29-Apr | 7,896 | 32,220 | 2,542 | 14,854 | 2,327 | 19,723 |
| Averages |  |  |  |  |  |  |  |  |
| 89-07 | 50,727 |  |  |  | 2,942 | 47,474 | 5,606 | 56,827 |
| 98-07 | 42,993 |  |  |  | 3,806 | 39,187 | 5,647 | 48,640 |
| 2008 | 29,801 | 27-Apr | 7,896 | 32,220 | 2,418 | 27,383 | 3,413 | 33,214 |

${ }^{\text {a }}$ From 1999-2004 to determine the number of large fish in the Canadian harvest,
the average $\%$ of large fish ( $75 \%$ ) was applied to all catches except the recreational catch,
which is assumed to be $100 \%$ large and comprise 300 fish annually.
${ }^{\mathrm{b}}$ U.S. catch includes D111 commercial gillnet and Juneau area sport fishery harvests; the estimate of large fish for the commercial fishery includes age-1.3 and older fish;
all sport harvests are assumed to be large fish.

Appendix D. 12. Aerial survey index escapement counts of large (3-ocean and older) Taku River Chinook salmon, 1975-2008.

| Year | Kowatua | Tatsatua | 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 |
| Averages |  |  |  |  |  |  |  |
| 75-07 | 694 | 930 | 490 | 344 | 3,664 | 1,467 | 7,587 |
| 98-07 | 768 | 907 | 553 | 309 | 2,497 | 894 | 5,369 |
| 2008 | 690 | 1,083 | 480 | 497 | 1,437 | 1,121 | 5,308 |

$\quad{ }^{\text {a }}$ Partial survey. Tseta 84
${ }^{\text {b }}$ Extrapolated results. Nahlin 84

Appendix D. 13. Taku River (above border) coho salmon run size, 1987-2008.

| Year | Above Border M-R |  | Expansion |  | Expanded Estimate | Canadian Catch | Escape. | $\begin{array}{r} \text { U.S. } \\ \text { Catch } \end{array}$ | TotalTotal Exploitation |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Run <br> Estimate | End <br> Date |  |  |  |  |  |  |  |  |
|  |  |  | Method | Factor |  |  |  |  | Run | Rate |
| 1987 | 43,750 | 20-Sep | Test Fish CPUE | 1.42 | 61,976 | 6,519 | 55,457 |  |  |  |
| 1988 | 43,093 | 18-Sep |  | 1.00 | 43,093 | 3,643 | 39,450 |  |  |  |
| 1989 | 60,841 | 1-Oct |  | 1.00 | 60,841 | 4,033 | 56,808 |  |  |  |
| 1990 | 75,881 |  |  | 1.00 | 75,881 | 3,685 | 72,196 |  |  |  |
| 1991 | 132,923 |  |  | 1.00 | 132,923 | 5,439 | 127,484 |  |  |  |
| 1992 | 50,557 | 5-Sep | District 111-32 CPUE | 1.79 | 90,394 | 5,541 | 84,853 | 96,371 | 186,765 | 0.546 |
| 1993 | 62,076 | 11-Sep | District 111-32 CPUE | 1.84 | 114,091 | 4,634 | 109,457 | 97,783 | 211,874 | 0.483 |
| 1994 | 98,643 | 24-Sep | District 111-32 CPUE | 1.13 | 111,036 | 14,693 | 96,343 | 228,700 | 339,736 | 0.716 |
| 1995 | 61,738 | 30-Sep | District 111-32 CPUE | 1.12 | 69,448 | 13,738 | 55,710 | 111,668 | 181,116 | 0.692 |
| 1996 | 44,172 | 28-Sep | District 111-32 CPUE | 1.12 | 49,687 | 5,052 | 44,635 | 44,596 | 94,283 | 0.527 |
| 1997 | 35,035 | 27-Sep | District 111-32 CPUE | 1.00 | 35,035 | 2,690 | 32,345 | 15,852 | 50,887 | 0.364 |
| 1998 | 49,290 | 26-Sep | District 111-32 CPUE | 1.35 | 66,472 | 5,090 | 61,382 | 53,454 | 119,926 | 0.488 |
| 1999 | 59,052 | 3-Oct | Troll CPUE | 1.12 | 66,343 | 5,575 | 60,768 | 50,833 | 117,176 | 0.481 |
| 2000 | 70,147 | 2-Oct | no expansion | 1.00 | 70,147 | 5,447 | 64,700 | 39,002 | 109,149 | 0.407 |
| 2001 | 107,493 | 5-Oct | no expansion | 1.00 | 107,493 | 3,099 | 104,394 | 55,286 | 162,779 | 0.359 |
| 2002 | 223,162 | 7-Oct | no expansion | 1.00 | 223,162 | 3,802 | 219,360 | 80,114 | 303,276 | 0.277 |
| 2003 | 186,755 | 8 -Oct | no expansion | 1.00 | 171,562 | 3,643 | 167,919 | 78,334 | 265,089 | 0.309 |
| 2004 | 139,011 | 8 -Oct | no expansion | 1.00 | 143,970 | 9,432 | 134,538 | 112,524 | 256,494 | 0.475 |
| 2005 | 143,817 | 8 -Oct | no expansion | 1.00 | 99,811 | 8,259 | 91,552 | 79,179 | 222,996 | 0.392 |
| 2006 | 134,053 | 8-Oct | no expansion | 1.00 | 134,053 | 11,669 | 122,384 | 92,641 | 226,694 | 0.460 |
| 2007 | 82,319 | 8-Oct | Troll CPUE | 1.00 | 82,319 | 7,993 | 74,367 | 50,975 | 133,294 | 0.442 |
| Avera |  |  |  |  |  |  |  |  |  |  |
| 87-07 | 88,027 | 9/28 |  | 1.14 | 95,702 | 6,364 | 89,338 | 79,176 | 181,365 |  |
| 98-07 | 113,986 | 10/5 |  | 1.05 | 116,533 | 6,397 | 110,136 | 67,225 | 183,758 | 0.413 |
| 2008 | 99,199 | 8-Oct | Troll CPUE | 1.00 | 99,199 | 3,839 | 95,360 | 74,071 | 173,270 | 0.450 |

Appendix D. 14. Escapement counts of Taku River coho salmon, 1984-2008.

| Counts are for age-. 1 fish and do not include non large. Because of variability between methods, visibility, observers, and timing, these counts are not an index of run strength. |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Yehring Creek |  | Sockeye Creek Aerial | Johnson Creek Ar/Foot | Fish Creek Aerial | Flannigan Slough Aerial | Tatsamenie 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 |  |  |  |  |  |  |  |  |  |  |  |

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

Appendix D. 15. Canyon Island fish wheel salmon counts and periods of operation on the Taku River, 1983-2008.

| Year | Period of Operation | Catch |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  | Pin |  |
|  |  | Chinook | Sockeye | Coho | Pink | Chum | even year | odd year |
| 1984 | 6/15-9/18 | 138 | 2,334 | 889 | 20,751 | 316 | 20,751 |  |
| 1985 | 6/16-9/21 | 184 | 3,601 | 1,207 | 27,670 | 1,376 |  | 27,670 |
| 1986 | 6/14-8/25 | 571 | 5,808 | 758 | 7,256 | 80 | 7,256 |  |
| 1987 | 6/15-9/20 | 285 | 4,307 | 2,240 | 42,786 | 1,533 |  | 42,786 |
| 1988 | 5/11-9/19 | 1,436 | 3,292 | 2,168 | 3,982 | 1,089 | 3,982 |  |
| 1989 | 5/05-10/01 | 1,811 | 5,650 | 2,243 | 31,189 | 645 |  | 31,189 |
| 1990 | 5/03-9/23 | 1,972 | 6,091 | 1,860 | 13,358 | 748 | 13,358 |  |
| 1991 | 6/08-10/15 | 680 | 5,102 | 4,922 | 23,553 | 1,063 |  | 23,553 |
| 1992 | 6/20-9/24 | 212 | 6,279 | 2,103 | 9,252 | 189 | 9,252 |  |
| 1993 | 6/12-9/29 | 562 | 8,975 | 2,552 | 1,625 | 345 |  | 1,625 |
| 1994 | 6/10-9/21 | 906 | 6,485 | 4,792 | 27,100 | 367 | 27,100 |  |
| 1995 | 5/4-9/27 | 1,535 | 6,228 | 2,535 | 1,712 | 218 |  | 1,712 |
| 1996 | 5/3-9/20 | 1,904 | 5,919 | 1,895 | 21,583 | 388 | 21,583 |  |
| 1997 | 5/3-10/1 | 1,321 | 5,708 | 1,665 | 4,962 | 485 |  | 4,962 |
| 1998 | 5/2-9/15 | 894 | 4,230 | 1,777 | 23,347 | 179 | 23,347 |  |
| 1999 | 5/3-10/3 | 440 | 4,636 | 1,848 | 23,503 | 164 |  | 23,503 |
| 2000 | 4/23-10/3 | 1,211 | 5,865 | 1,877 | 6,529 | 423 | 6,529 |  |
| 2001 | 4/23-10/5 | 1,262 | 6,201 | 2,380 | 9,134 | 250 |  | 9,134 |
| 2002 | 4/24-10/7 | 1,578 | 5,812 | 3,766 | 5,672 | 205 | 5,672 |  |
| 2003 | 4/20-10/08 | 1,351 | 5,970 | 3,002 | 15,492 | 268 |  | 15,492 |
| 2004 | 4/30-10/06 | 2,234 | 6,255 | 3,163 | 8,464 | 414 | 8,464 |  |
| 2005 | 4/25-10/05 | 517 | 3,953 | 1,476 | 15,839 | 258 |  | 15,839 |
| 2006 | 4/27-10/03 | 544 | 5,296 | 2,811 | 21,725 | 466 | 21,725 |  |
| 2007 | 4/27-10/01 | 430 | 7,698 | 2,117 | 12,405 | 482 |  | 12,405 |
| Averages |  |  |  |  |  |  |  |  |
| 84-07 |  | 999 | 5,487 | 2,335 | 15,787 | 498 | 14,085 | 17,489 |
| 98-07 |  | 1,046 | 5,592 | 2,422 | 14,211 | 311 | 13,147 | 15,275 |
| 2008 | 4/23-10/03 | 1,298 | 3,736 | 2,213 | 4,704 | 350 | 4,704 |  |

Appendix E. 1. Weekly salmon catch and effort in the lower Alsek River fisheries, 2008.

| Week | Start <br> Date | Catch |  |  |  |  |  | Effort |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Chinook |  | Sockeye | Coho | Pink | Chum | Boats | $\begin{aligned} & \text { Days } \\ & \text { Open } \end{aligned}$ | Boat <br> Days |
|  |  | Large | Jack |  |  |  |  |  |  |  |
| Test Fishery |  |  |  |  |  |  |  |  |  |  |
|  | 20-May | 6 |  | 0 |  |  |  |  |  |  |
|  | 27-May | 88 |  | 3 |  |  |  |  |  |  |
|  | 3-Jun | 94 |  | 6 |  |  |  |  |  |  |
|  | 10-Jun | 112 |  | 10 |  |  |  |  |  |  |
|  | 17-Jun | 140 |  | 23 |  |  |  |  |  |  |
|  | 24-Jun | 25 |  | 13 |  |  |  |  |  |  |
| Total |  | 465 | 0 | 55 | 0 | 0 | 0 |  |  |  |
| Commercial Fishery |  |  |  |  |  |  |  |  |  |  |
| 23 | 3-Jun | 5 | 0 | 5 | 0 | 0 | 0 | 4 | 1 | 4.0 |
| 24 | 10-Jun | 30 | 0 | 73 | 0 | 0 | 0 | 8 | 1 | 8.0 |
| 25 | 17-Jun | 55 | 0 | 206 | 0 | 0 | 0 | 10 | 1 | 10.0 |
| 26 | 24-Jun | 20 | 0 | 225 | 0 | 0 | 0 | 12 | 1 | 12.0 |
| 27 | 1-Jul | 15 | 0 | 761 | 0 | 0 | 0 | 14 | 1 | 14.0 |
| 28 | 8-Jul | 1 | 0 | 521 | 0 | 0 | 0 | 14 | 1 | 14.0 |
| 29 | 15-Jul | 1 | 0 | 785 | 0 | 0 | 0 | 13 | 1 | 13.0 |
| 30 | 22-Jul | 1 | 0 | 107 | 0 | 0 | 0 | 9 | 1 | 9.0 |
| 31 | 29-Jul |  |  |  |  |  |  |  | 0 |  |
| 32 | 5-Aug |  |  |  |  |  |  |  | 0 |  |
| 33 | 12-Aug | 0 | 0 | 34 | 11 | 0 | 0 | 3 | 1 | 3.0 |
| 34 | 19-Aug | 0 | 0 | 21 | 351 | 0 | 0 | 6 | 3 | 18.0 |
| 35 | 26-Aug | 0 |  | 74 | 428 |  | 2 | 6 | 3 | 18.0 |
| 36 | 2-Sep | 0 |  | 2 | 582 |  |  | 6 | 3 | 18.0 |
| 37 | 9-Sep | 0 |  | 0 | 590 |  |  | 4 | 3 | 12.0 |
| 38-40 | 16-30 Sep | 0 | 0 | 1 | 706 | 0 | 0 |  |  |  |
| Total |  | 128 | 0 | 2,815 | 2,668 | 0 | 2 |  | 33 | 171.0 |

Appendix E. 2. Weekly salmon catch and effort in the Canadian Aboriginal and sport fisheries in the Alsek River, 2008.

${ }^{\text {a }}$ Includes estimates of sport catch (kept and released) in Takhanne and Blanchard rivers; estimates based on salmon catch card information.
${ }^{\mathrm{b}}$ Does not include released recreational or aboriginal fish.

Appendix E. 3. Daily counts of salmon passing through Klukshu River weir, 2008.
Includes all Chinook

| Date | Chinook |  |  | Sockeye |  |  | Coho |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Cumulative |  |  | Daily | Cumulative |  | Daily | Cumulative |  |
|  | Daily | Daily | Prop. |  | Daily | Prop. |  | Daily | Prop. |
| 5-Jun | 0 | 0 | 0.000 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 6-Jun | 0 | 0 | 0.000 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 7-Jun | 0 | 0 | 0.000 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 8-Jun | 0 | 0 | 0.000 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 9-Jun | 0 | 0 | 0.000 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 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 | 1 | 1 | 0.002 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 15-Jun | 0 | 1 | 0.002 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 16-Jun | 0 | 1 | 0.002 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 17-Jun | 1 | 2 | 0.004 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 18-Jun | 0 | 2 | 0.004 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 19-Jun | 0 | 2 | 0.004 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 20-Jun | 0 | 2 | 0.004 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 21-Jun | 1 | 3 | 0.006 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 22-Jun | 1 | 4 | 0.009 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 23-Jun | 1 | 5 | 0.011 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 24-Jun | 1 | 6 | 0.013 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 25-Jun | 0 | 6 | 0.013 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 26-Jun | 0 | 6 | 0.013 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 27-Jun | 0 | 6 | 0.013 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 28-Jun | 0 | 6 | 0.013 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 29-Jun | 0 | 6 | 0.013 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 30-Jun | 0 | 6 | 0.013 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 1-Jul | 0 | 6 | 0.013 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 2-Jul | 1 | 7 | 0.015 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 3-Jul | 1 | 8 | 0.017 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 4-Jul | 3 | 11 | 0.024 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 5-Jul | 3 | 14 | 0.030 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 6-Jul | 1 | 15 | 0.032 | 1 | 1 | 0.000 | 0 | 0 | 0.000 |
| 7-Jul | 1 | 16 | 0.034 | 0 | 1 | 0.000 | 0 | 0 | 0.000 |
| 8-Jul | 0 | 16 | 0.034 | 0 | 1 | 0.000 | 0 | 0 | 0.000 |
| 9-Jul | 2 | 18 | 0.039 | 0 | 1 | 0.000 | 0 | 0 | 0.000 |
| 10-Jul | 0 | 18 | 0.039 | 0 | 1 | 0.000 | 0 | 0 | 0.000 |
| 11-Jul | 1 | 19 | 0.041 | 0 | 1 | 0.000 | 0 | 0 | 0.000 |
| 12-Jul | 0 | 19 | 0.041 | 0 | 1 | 0.000 | 0 | 0 | 0.000 |
| 13-Jul | 3 | 22 | 0.047 | 1 | 2 | 0.001 | 0 | 0 | 0.000 |
| 14-Jul | 2 | 24 | 0.052 | 1 | 3 | 0.001 | 0 | 0 | 0.000 |
| 15-Jul | 7 | 31 | 0.067 | 0 | 3 | 0.001 | 0 | 0 | 0.000 |
| 16-Jul | 4 | 35 | 0.075 | 0 | 3 | 0.001 | 0 | 0 | 0.000 |
| 17-Jul | 6 | 41 | 0.088 | 1 | 4 | 0.001 | 0 | 0 | 0.000 |
| 18-Jul | 5 | 46 | 0.099 | 0 | 4 | 0.001 | 0 | 0 | 0.000 |
| 19-Jul | 2 | 48 | 0.103 | 1 | 5 | 0.002 | 0 | 0 | 0.000 |
| 20-Jul | 6 | 54 | 0.116 | 1 | 6 | 0.002 | 0 | 0 | 0.000 |
| 21-Jul | 37 | 91 | 0.195 | 0 | 6 | 0.002 | 0 | 0 | 0.000 |
| 22-Jul | 8 | 99 | 0.212 | 0 | 6 | 0.002 | 0 | 0 | 0.000 |
| 23-Jul | 7 | 106 | 0.227 | 0 | 6 | 0.002 | 0 | 0 | 0.000 |
| 24-Jul | 5 | 111 | 0.238 | 0 | 6 | 0.002 | 0 | 0 | 0.000 |
| 25-Jul | 12 | 123 | 0.264 | 1 | 7 | 0.003 | 0 | 0 | 0.000 |
| 26-Jul | 154 | 277 | 0.594 | 1 | 8 | 0.003 | 0 | 0 | 0.000 |
| 27-Jul | 13 | 290 | 0.622 | 2 | 10 | 0.004 | 0 | 0 | 0.000 |
| 28-Jul | 14 | 304 | 0.652 | 0 | 10 | 0.004 | 0 | 0 | 0.000 |
| 29-Jul | 15 | 319 | 0.685 | 0 | 10 | 0.004 | 0 | 0 | 0.000 |
| 30-Jul | 19 | 338 | 0.725 | 0 | 10 | 0.004 | 0 | 0 | 0.000 |
| 31-Jul | 9 | 347 | 0.745 | 0 | 10 | 0.004 | 0 | 0 | 0.000 |
| 1-Aug | 11 | 358 | 0.768 | 0 | 10 | 0.004 | 0 | 0 | 0.000 |
| 2-Aug | 18 | 376 | 0.807 | 1 | 11 | 0.004 | 0 | 0 | 0.000 |
| 3-Aug | 10 | 386 | 0.828 | 0 | 11 | 0.004 | 0 | 0 | 0.000 |
| 4-Aug | 5 | 391 | 0.839 | 2 | 13 | 0.005 | 0 | 0 | 0.000 |
| 5-Aug | 1 | 392 | 0.841 | 0 | 13 | 0.005 | 0 | 0 | 0.000 |
| 6-Aug | 10 | 402 | 0.863 | 0 | 13 | 0.005 | 0 | 0 | 0.000 |
| 7-Aug | 6 | 408 | 0.876 | 0 | 13 | 0.005 | 0 | 0 | 0.000 |
| 8-Aug | 21 | 429 | 0.921 | 0 | 13 | 0.005 | 0 | 0 | 0.000 |
| 9-Aug | 10 | 439 | 0.942 | 0 | 13 | 0.005 | 0 | 0 | 0.000 |
| 10-Aug | 6 | 445 | 0.955 | 7 | 20 | 0.007 | 0 | 0 | 0.000 |
| 11-Aug | 1 | 446 | 0.957 | 0 | 20 | 0.007 | 0 | 0 | 0.000 |


| Date | Chinook |  |  | Sockeye |  |  | Coho |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Cumulative |  | Daily | Cumulative |  | Daily | Cumulative |  |
|  | Daily | Daily | Prop. |  | Daily | Prop. |  | Daily | Prop. |
| 12-Aug | 2 | 448 | 0.961 | 4 | 24 | 0.009 | 0 | 0 | 0.000 |
| 13-Aug | 0 | 448 | 0.961 | 14 | 38 | 0.014 | 0 | 0 | 0.000 |
| 14-Aug | 4 | 452 | 0.970 | 4 | 42 | 0.015 | 0 | 0 | 0.000 |
| 15-Aug | 0 | 452 | 0.970 | 1 | 43 | 0.016 | 0 | 0 | 0.000 |
| 16-Aug | 0 | 452 | 0.970 | 1 | 44 | 0.016 | 0 | 0 | 0.000 |
| 17-Aug | 3 | 455 | 0.976 | 1 | 45 | 0.016 | 0 | 0 | 0.000 |
| 18-Aug | 0 | 455 | 0.976 | 0 | 45 | 0.016 | 0 | 0 | 0.000 |
| 19-Aug | 0 | 455 | 0.976 | 2 | 47 | 0.017 | 0 | 0 | 0.000 |
| 20-Aug | 2 | 457 | 0.981 | 0 | 47 | 0.017 | 0 | 0 | 0.000 |
| 21-Aug | 3 | 460 | 0.987 | 58 | 105 | 0.038 | 0 | 0 | 0.000 |
| 22-Aug | 5 | 465 | 0.998 | 7 | 112 | 0.041 | 0 | 0 | 0.000 |
| 23-Aug | 0 | 465 | 0.998 | 0 | 112 | 0.041 | 0 | 0 | 0.000 |
| 24-Aug | 1 | 466 | 1.000 | 0 | 112 | 0.041 | 0 | 0 | 0.000 |
| 25-Aug | 0 | 466 | 1.000 | 1 | 113 | 0.041 | 0 | 0 | 0.000 |
| 26-Aug | 0 | 466 | 1.000 | 180 | 293 | 0.107 | 0 | 0 | 0.000 |
| 27-Aug | 0 | 466 | 1.000 | 186 | 479 | 0.175 | 0 | 0 | 0.000 |
| 28-Aug | 0 | 466 | 1.000 | 0 | 479 | 0.175 | 0 | 0 | 0.000 |
| 29-Aug | 0 | 466 | 1.000 | 24 | 503 | 0.184 | 0 | 0 | 0.000 |
| 30-Aug | 0 | 466 | 1.000 | 0 | 503 | 0.184 | 0 | 0 | 0.000 |
| 31-Aug | 0 | 466 | 1.000 | 0 | 503 | 0.184 | 0 | 0 | 0.000 |
| 1-Sep | 0 | 466 | 1.000 | 0 | 503 | 0.184 | 0 | 0 | 0.000 |
| 2-Sep | 0 | 466 | 1.000 | 2 | 505 | 0.184 | 0 | 0 | 0.000 |
| 3-Sep | 0 | 466 | 1.000 | 0 | 505 | 0.184 | 0 | 0 | 0.000 |
| 4-Sep | 0 | 466 | 1.000 | 1 | 506 | 0.185 | 0 | 0 | 0.000 |
| 5-Sep | 0 | 466 | 1.000 | 0 | 506 | 0.185 | 0 | 0 | 0.000 |
| 6-Sep | 0 | 466 | 1.000 | 0 | 506 | 0.185 | 0 | 0 | 0.000 |
| 7-Sep | 0 | 466 | 1.000 | 0 | 506 | 0.185 | 0 | 0 | 0.000 |
| 8-Sep | 0 | 466 | 1.000 | 1 | 507 | 0.185 | 0 | 0 | 0.000 |
| 9-Sep | 0 | 466 | 1.000 | 0 | 507 | 0.185 | 0 | 0 | 0.000 |
| 10-Sep | 0 | 466 | 1.000 | 0 | 507 | 0.185 | 0 | 0 | 0.000 |
| 11-Sep | 0 | 466 | 1.000 | 0 | 507 | 0.185 | 0 | 0 | 0.000 |
| 12-Sep | 0 | 466 | 1.000 | 0 | 507 | 0.185 | 0 | 0 | 0.000 |
| 13-Sep | 0 | 466 | 1.000 | 1 | 508 | 0.185 | 0 | 0 | 0.000 |
| 14-Sep | 0 | 466 | 1.000 | 24 | 532 | 0.194 | 0 | 0 | 0.000 |
| 15-Sep | 0 | 466 | 1.000 | 82 | 614 | 0.224 | 0 | 0 | 0.000 |
| 16-Sep | 0 | 466 | 1.000 | 32 | 646 | 0.236 | 0 | 0 | 0.000 |
| 17-Sep | 0 | 466 | 1.000 | 642 | 1,288 | 0.470 | 0 | 0 | 0.000 |
| 18-Sep | 0 | 466 | 1.000 | 86 | 1,374 | 0.501 | 0 | 0 | 0.000 |
| 19-Sep | 0 | 466 | 1.000 | 39 | 1,413 | 0.516 | 0 | 0 | 0.000 |
| 20-Sep | 0 | 466 | 1.000 | 196 | 1,609 | 0.587 | 1 | 1 | 0.000 |
| 21-Sep | 0 | 466 | 1.000 | 26 | 1,635 | 0.596 | 0 | 1 | 0.000 |
| 22-Sep | 0 | 466 | 1.000 | 3 | 1,638 | 0.598 | 0 | 1 | 0.000 |
| 23-Sep | 0 | 466 | 1.000 | 26 | 1,664 | 0.607 | 1 | 2 | 0.000 |
| 24-Sep | 0 | 466 | 1.000 | 18 | 1,682 | 0.614 | 1 | 3 | 0.001 |
| 25-Sep | 0 | 466 | 1.000 | 12 | 1,694 | 0.618 | 0 | 3 | 0.001 |
| 26-Sep | 0 | 466 | 1.000 | 6 | 1,700 | 0.620 | 0 | 3 | 0.001 |
| 27-Sep | 0 | 466 | 1.000 | 28 | 1,728 | 0.630 | 0 | 3 | 0.001 |
| 28-Sep | 0 | 466 | 1.000 | 86 | 1,814 | 0.662 | 1 | 4 | 0.001 |
| 29-Sep | 0 | 466 | 1.000 | 52 | 1,866 | 0.681 | 0 | 4 | 0.001 |
| 30-Sep | 0 | 466 | 1.000 | 104 | 1,970 | 0.719 | 356 | 360 | 0.084 |
| 1-Oct | 0 | 466 | 1.000 | 632 | 2,602 | 0.949 | 1,009 | 1,369 | 0.320 |
| 2-Oct | 0 | 466 | 1.000 | 109 | 2,711 | 0.989 | 1,167 | 2,536 | 0.593 |
| 3-Oct | 0 | 466 | 1.000 | 22 | 2,733 | 0.997 | 276 | 2,812 | 0.658 |
| 4-Oct | 0 | 466 | 1.000 | 3 | 2,736 | 0.998 | 70 | 2,882 | 0.674 |
| 5-Oct | 0 | 466 | 1.000 | 1 | 2,737 | 0.999 | 162 | 3,044 | 0.712 |
| 6-Oct | 0 | 466 | 1.000 | 1 | 2,738 | 0.999 | 121 | 3,165 | 0.740 |
| 7-Oct | 0 | 466 | 1.000 | 0 | 2,738 | 0.999 | 20 | 3,185 | 0.745 |
| 8-Oct | 0 | 466 | 1.000 | 0 | 2,738 | 0.999 | 10 | 3,195 | 0.747 |
| 9-Oct | 0 | 466 | 1.000 | 1 | 2,739 | 0.999 | 21 | 3,216 | 0.752 |
| 10-Oct | 0 | 466 | 1.000 | 0 | 2,739 | 0.999 | 27 | 3,243 | 0.759 |
| 11-Oct | 0 | 466 | 1.000 | 2 | 2,741 | 1.000 | 372 | 3,615 | 0.846 |
| 12-Oct | 0 | 466 | 1.000 | 0 | 2,741 | 1.000 | 660 | 4,275 | 1.000 |
| Total Co |  | 466 |  |  | 2,741 |  |  | 4,275 |  |
| Adjustments |  |  |  |  |  |  |  |  |  |
| Catch at weir |  | 0 |  | 0 |  |  | 26 |  |  |
| Catch above weir |  | NA |  | NA |  |  | NA |  |  |
| Total Es | nent | 466 |  | 2,741 |  |  | 4,249 |  |  |

Appendix E. 4. Salmon catch and effort in the U.S. Commercial fishery in the Alsek River, 1960 to 2008.

| Year | Catch |  |  |  |  | Effort |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  | Boat | Days |
|  | Chinook | Sockeye | Coho | Pink | Chum | 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 | 239 | 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 |
| Averages |  |  |  |  |  |  |  |
| 60-07 | 753 | 20,549 | 5,707 | 37 | 311 | 558 | 51.6 |
| 98-07 | 571 | 16,182 | 3,268 | 2 | 41 | 277 | 50.6 |
| 2008 | 128 | 2,815 | 2,668 | 0 | 0 | 171 | 30.0 |


| Appendix E. 5. Salmon catch in the U.S. subsistence and personal use 2008. |  |  |  |
| :---: | :---: | :---: | :---: |
| Catches are those reported on returned permits |  |  |  |
| Year | Catch |  |  |
|  | 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 |
| Averages |  |  |  |
| 76-07 | 41 | 119 | 31 |
| 98-07 | 43 | 147 | 29 |
| 2008 | 34 | 200 | 28 |

Appendix E. 6. Salmon catches in the Canadian Aboriginal and sport fisheries in the Alsek River, 1976 to 2008.

| Year | Chinook |  |  | Sockeye |  |  | Coho |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | tboriginal .ecreational |  | $\frac{\text { Total }}{350}$ | Aboriginal ecreational |  | $\begin{gathered} \hline \text { Total } \\ \hline 4,600 \end{gathered}$ | Aboriginal 'ecreational |  | $\begin{array}{r} \hline \text { Total } \\ 100 \end{array}$ |
| 1976 | 150 | 200 |  | 4,000 | 600 |  | 0 | 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 |
| Averages |  |  |  |  |  |  |  |  |  |
| 76-07 | 234 | 274 | 508 | 2,421 | 316 | 2,737 | 11 | 113 | 124 |
| 98-07 | 100 | 108 | 208 | 1,307 | 42 | 1,349 | 16 | 82 | 97 |
| 2008 | 0 | 7 | 7 | 0 | 0 | 0 | 26 | 8 | 34 |

Appendix E. 7. Annual Klukshu River weir counts of Chinook, sockeye, and coho salmon, 1976 to 2008.

| All Chinook |  |  | Sockeye |  |  | Coho ${ }^{\text {a }}$ |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Count | Escape. ${ }^{\text {c }}$ | Early ${ }^{\text {c }}$ | Late | Total | Escape. | Count | Escape. ${ }^{\text {b }}$ |
| 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 |
| Averages |  |  |  |  |  |  |  |  |
| 76-07 | 2,345 | 2,149 | 3,046 | 13,722 | 16,768 | 14,705 | 1,849 |  |
| 98-07 | 1,556 | 1,502 | 2,453 | 11,149 | 13,602 | 12,740 | 2,584 | 2,577 |
| 2008 | 466 | 466 | 43 | 2,698 | 2,741 | 2,741 | 4,275 | 4,275 |

${ }^{\mathrm{a}}$ Weir was removed prior to the end of the coho run.
${ }^{\mathrm{b}}$ The chinook and sockeye escapements into Klukshu Lake are calculated from the weir count minus fish harvested above the weir site minus broodstock taken. The remainder of the food fishery harvest occurred below the weir, at Village Creek, and Blanchard and Takhanne Rivers.
${ }^{\mathrm{c}}$ Includes sockeye counts up to and including August 15.

Appendix E. 8. Alsek River sockeye salmon escapement 2000 to 2006.
The 2000-2004 estimates are based on a mark-recapture study. The 2005 estimate was based on GSI analysis and the expansion of the Klukshu River weir count.

| Year | Inriver Run <br> Estimate | Confidence Interval |  | Canadian Spawning |  | U.S.Catch | Total <br> Run | Percent Klukshu |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Lower | Upper | Catch | Escapement |  |  |  |
| 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 | 18,152 | 101,855 | 18.3\% |
| 2005 | 57,817 | 21,907 | 93,727 | 594 | 57,223 | 7,635 | 65,452 | 5.8\% |
| 2006 | 48,901 | 41,234 | 56,569 | 1,327 | 47,574 | 10,114 | 59,015 | 27.5\% |
| Averages |  |  |  |  |  |  |  |  |
| 00-06 | 65,487 |  |  | 1,574 | 63,913 | 16,666 | 82,152 | 22.8\% |

Appendix E. 9. Alsek River sockeye salmon counts from U.S. and Canadian aerial surveys and from the electronic counter at Village Creek, 1985-2008.

| Surveys not made every year at each tributary. |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | U.S. Aerial Surveys |  |  |  | Canada Aerial Surveys ${ }^{\text {a }}$ |  | Village |
|  | Basin | Cabin | Muddy | Tanis | Tatshenshini | Neskataheen | Creek |
| Year | 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 survey | s flown |  |  |  | 2,765 |
| 2003 |  | No surve | s flown |  |  |  | 2,778 |
| 2004 |  | No survey | s flown |  |  |  | 1,968 |
| 2005 |  | No survey | s flown |  |  |  | 1,408 |
| 2006 |  | No surve | s flown |  |  |  | 979 |
| 2007 |  | No surve | s flown |  |  |  | 10,254 |
| Averages |  |  |  |  |  |  |  |
| 85-07 | 991 | 177 | 300 | 996 | 756 | 969 | 3,089 |
| 98-07 | 28 |  |  | 453 |  |  | 2,748 |
| 2008 | No survey | flown |  |  |  |  | NA |

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

Appendix E. 10. Aerial survey index counts of Alsek River Chinook salmon escapements, 1984 to 2008.

|  | 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 | Jo Survey -Poor Cond. | 158 | 34 |
| 1990 | Jo Survey -Poor Cond. | 325 | 32 |
| 1991 | 121 | 86 | 63 |
| 1992 | 86 | 77 | 16 |
| 1993 | 326 | 351 | 50 |
| 1994 | 349 | 342 | $67^{\text {a }}$ |
| 1995 | 338 | 260 |  |
| 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 |
| Averages | 253 | 189 | 33 |
| $84-07$ | 196 | 125 | 11 |
| $98-07$ | 65 | 41 |  |
| 2008 |  |  | 43 |

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

Appendix E. 11. Alsek River run of large (=>660 mef) 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 Klukshu River; the program was discontinued in 2005.

|  | iver Run |  |  | U.S. |  | Total |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Past | nfidenc | nterval | Dry Bay |  | Inriver |  | ian Cat |  |
| Year | Dry Bay | Lower | Upper | Commercial |  | Run | Aboriginal | Sport | pement |
| 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 |
| Averages |  |  |  |  |  |  |  |  |  |
| 97-04 | 9,168 |  |  | 639 45 |  | 9,851 | 147 | 158 8,863 |  |


| Klukshu weir count of large chinook salmon as a percent of the Alsek escapement of large chinook salmon |  |  |  |
| :---: | :---: | :---: | :---: |
|  | Weir Count |  | Percent Klukshu |
|  | All | Large |  |
| 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\% |
| Averages |  |  |  |
| 97-04 | 2,030 | 1,778 | 21.5\% |

Appendix E. 12. Aerial survey counts of coho salmon from U.S. lower Alsek River tributaries, 1985-2000

| Year | Combined U.S. <br> Tributary Counts |
| :--- | :---: |
| 1985 | 450 |
| 1986 | 1,100 |
| 1987 | 100 |
| 1988 | 1,900 |
| 1989 | 1,990 |
| 1990 | 1,600 |
| 1991 | $500^{\mathrm{a}}$ |
| 1992 | $1010^{\mathrm{a}}$ |
| 1993 | $800^{\mathrm{a}}$ |
| 1994 | $975^{\mathrm{a}}$ |
| 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 |
| Averages |  |
| $85-00$ | 1,010 |

Appendix F. 1. Tahltan Lake egg collection, fry plants, and survivals, 1989-2008.
Number 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 Tahltan | Fry <br> Planted | Percent Fertilized | Survival |  | Thermal <br> Mark <br> Pattern |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Fertilized |  |  | Green |  |
|  | Target Collected ${ }^{\text {a }}$ |  |  |  |  | Egg to Fry | 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 | 1:1.5+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 | 2.313 | 0.923 | 0.791 | 0.730 | 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 | 3.505 | 2.773 | 2.228 | 0.901 | 0.892 | 0.803 | 2:1.6 |
| 2000 | 6.000 | 2.388 | 2.388 | 1.873 | 0.920 | 0.853 | 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 | 1.019 | 0.944 | 1:1.7 |
| 2003 | 6.000 | 5.391 | 2.661 | 2.226 | 0.899 | 0.931 | 0.837 | 1:1.6 \& 1:1.5+2.4 |
| 2004 | 6.000 | 5.701 | 1.966 | 1.266 | 0.803 | 0.802 | 0.644 | 1:1.6+2.6 |
| 2005 | 6.000 | 4.552 | 1.809 | 1.280 | 0.800 | 0.884 | 0.708 | 1:1.4+2.2 |
| 2006 | 6.000 | 4.360 | 2.954 | 2.466 | 0.910 | 0.917 | 0.835 | 1:1.3n, 2.2 |
| 2007 | 6.000 | 4.061 | 2.209 | 1.540 | 0.756 | 0.922 | 0.697 | 1,2n,3 |
| Averages |  |  |  |  |  |  |  |  |
| 89-07 | 5.705 | 4.462 | 2.486 | 1.908 | 0.872 | 0.887 | 0.778 |  |
| 98-07 | 6.000 | 4.134 | 2.484 | 1.971 | 0.866 | 0.906 | 0.785 |  |
| 2008 | 6.000 | 3.159 | 1.895 | 1.395 | 0.848 | 0.868 | 0.736 | 1,4H |


| Appendix F. 2. Tuya Lake fry plants a <br> Numbers for eggs and fry are millions |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |
| Egg Take <br> Designated |  | $\begin{array}{r} \text { Fry } \\ \text { Planted } \end{array}$ | Percent <br> Fertilized | Survival |  | Thermal <br> Mark <br> Pattern |
|  |  | Fertilized Green Egg to Fry Egg to Fry |  |  |
| Brood Year | Tuya |  |  |  |  |
| 1991 | 2.732 | 1.632 |  | 0.944 | 0.633 | 0.597 | 1:1.6 |
| 1992 | 2.747 | 1.990 | 0.929 | 0.780 | 0.724 | 1:1.7 |
| 1993 | 5.171 | 4.691 | 0.911 | 0.996 | 0.907 | 1:1.4+2.5N |
| 1994 | 2.765 | 2.267 | 0.870 | 0.943 | 0.820 | 1:1.4 |
| 1995 | 3.883 | 2.474 | 0.795 | 0.802 | 0.637 | 1:1.4+2.4 |
| 1996 | 3.233 | 2.614 | 0.932 | 0.868 | 0.809 | 1:1.4 |
| 1997 | 0.521 | 0.433 | 0.911 | 0.912 | 0.831 | 2:1.4 |
| 1998 | 2.024 | 1.603 | 0.917 | 0.864 | 0.792 | 1:1.4 |
| 1999 | 1.053 | 0.867 | 0.960 | 0.858 | 0.823 | 2:1.4 |
| $2000^{\text {a }}$ | 0.000 | 0.000 |  |  |  |  |
| $2001{ }^{\text {a }}$ | 0.000 | 0.000 |  |  |  |  |
| 2002 | 1.271 | 1.124 | 0.904 | 0.978 | 0.884 | 1:1.7+2.3 |
| 2003 | 2.730 | 2.445 | 0.927 | 0.966 | 0.896 | 1:1.4 |
| 2004 | 3.734 | 3.201 | 0.921 | 0.931 | 0.857 | 1:1.6+2.4 |
| 2005 | 2.744 | 2.138 | 0.900 | 0.866 | 0.779 | 1:1.4+2.4 |
| 2006 | 1.410 | 1.201 | 0.920 | 0.926 | 0.852 | 1:1.3,2.3 |
| 2007 | 1.852 | 1.537 | 0.856 | 0.970 | 0.830 | 2,1,3 |
| Averages |  |  |  |  |  |  |
| 91-07 | 2.228 | 1.777 | 0.906 | 0.886 | 0.803 |  |
| 98-07 | 1.682 | 1.412 | 0.913 | 0.920 | 0.839 |  |
| 2008 | 0.988 | 0.832 | 0.854 | 0.986 | 0.842 | 6H |

${ }^{\text {a }}$ All eggs collected in 2000 and 2001 were for backplant into Tahltan Lake.

Appendix F. 3. Tatsamenie Lake egg collection, fry plants, and survivals, 1989-2008.

| Brood Year | Egg Take |  |  | Survival ${ }^{\text {b }}$ |  |  |  | Thermal Mark Pattern | LastDateReleased |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Fry | Percent | tilized | Green |  |  |
|  | Target Collected ${ }^{\text {a }}$ Transport |  |  | Planted | Fertilized Egg to Fry $\mathrm{g} g$ to Fry |  |  |  |  |
| 1990 | 2.500 | 0.985 | 0.985 | 0.673 | 0.775 | 0.882 | 0.683 | 1:1.3 | 22-Jun |
| 1991 | 1.500 | 1.360 | 1.360 | 1.232 | 0.927 | 0.977 | 0.906 | 2:1.4 | 26-Jun |
| 1992 | 1.750 | 1.486 | 1.486 | 0.909 | 0.858 | 0.713 | 0.612 | 1:1.5 | 14-Jul |
| 1993 | 2.500 | 1.144 | 1.144 | 0.521 | 0.619 | 0.735 | 0.455 | 2:1.5 | 14-Jul |
| 1994 | 2.500 | 1.229 | 1.229 | 0.898 | 0.801 | 0.912 | 0.731 | 1:1.5 | 21-Jul |
| 1995 | 2.500 | 2.407 | 2.407 | 1.724 | 0.843 | 0.850 | 0.716 | 1:1.5 | 25-Jun |
| 1996 | 5.000 | 4.934 | 4.934 | 3.945 | 0.849 | 0.942 | 0.800 | 1:1.5\& 1:1.5,2.3 | 27-Jun |
| 1997 | 5.000 | 4.651 | 4.651 | 3.597 | 0.910 | 0.850 | 0.773 | 2:1\&2:1.5,2.3 | 9-Jul |
| 1998 | 2.500 | 2.414 | 2.414 | 1.769 | 0.897 | 0.817 | 0.733 | 1:1.4+2.5\&1:1.4+2.3 | 30-Jun |
| 1999 | 2.500 | 0.461 | 0.461 | 0.350 | 0.922 | 0.824 | 0.759 | 2:1.5 | 4-Jul |
| 2000 | 3.000 | 2.816 | 2.572 | 2.320 | 0.943 | 0.956 | 0.902 | 1.1.5+2.3\&1.1.5 | 26-Jun |
| 2001 | 4.800 | 4.364 | 3.499 | 2.233 | 0.900 | 0.709 | 0.638 | 2:1.5\&2:1.5,2.3 | 25-Jun |
| 2002 | 3.000 | 2.498 | 2.302 | 1.353 | 0.823 | 0.714 | 0.588 | 1:1.4\&1:1.4+2.3 | 27-May |
| 2003 | 5.000 | 2.642 | 2.452 | 2.141 | 0.919 | 0.950 | 0.873 | 1.1.5+2.3\&1.1.5 | 27-May |
| 2004 | 5.000 | 0.750 | 0.750 | 0.628 | 0.933 | 0.898 | 0.837 | 1:1.4+2.5n\&1:1.4+2.3,3.3 | 20-May |
| 2005 | 5.000 | 1.811 | 1.811 | 1.471 | 0.936 | 0.868 | 0.813 | 1:1.4+2.3\&1:1.4+2.5 | 8-Jun |
| 2006 | 5.000 | 4.810 | 4.810 | 3.705 | 0.920 | 0.837 | 0.770 | 1:1.2,2.1,3.2\&1:1.2,2.2,3.3\&1:1.2,2.2,3.1 | 13-Jun |
| 2007 | 5.000 | 3.673 | 3.673 | 2.122 | 0.885 | 0.653 | 0.578 | $2 \mathrm{n} 3 \& 2,3 \mathrm{n}, 1 \& 1,3 \mathrm{n}, 2 \& 3,2 \mathrm{n}, 1$ | 6-Jun |
| Averages |  |  |  |  |  |  |  |  |  |
| 90-07 | 3.558 | 2.469 | 2.386 | 1.755 | 0.870 | 0.838 | 0.732 |  |  |
| 98-07 | 4.080 | 2.624 | 2.474 | 1.809 | 0.908 | 0.823 | 0.749 |  |  |
| 2008 | 5.000 | 4.902 | 4.373 | 3.873 | 0.892 | 0.993 | 0.886 | 3,2H \& 3,3H | 3-Jun |

Multiple Release Treatments

| Brood Year | Treatment 1 |  |  |  | Treatment 2 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Mark | Treatment | Last |  | Mark | Treatment | Number <br> Released | Last |
|  |  |  | Number | Date |  |  |  | Date |
|  |  |  | Released | 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 nortr | 1.136 | 24-May |
| 2004 | $1: 1.4+2.5 \mathrm{~N}$ | unfed early south | 0.367 | 20-May | 1:1.4+2/3,3.3 | unfed early nortr | 0.261 | 20-May |
| 2005 | 1:1.4+2.3 | unfed early south | 0.775 | 8-Jun | 1:1.4+2.5 | unfed early nortr | 0.696 | 8-Jun |
| 2006 | :1.2,2.1,3.2 | unfed early south | 1.808 | 7-Jun | 1:1.2,2.2,3.31.2,2.2,3.1 | unfed early nortr | 1.897 | 13,7-Jun |
| 2007 | 1,3n,2 | unfed early midlake | 0.971 | 6-Jun | 2n3 2,3n1 | unfed early nortr | 1.150 | 5-Jun |
| 2007 | 3,2n,1 | extended rearing ${ }^{\text {c }}$ | 0.400 | 8-Jun |  |  |  |  |
| Averages |  |  |  |  |  |  |  |  |
| 98-07 | 0.893 |  |  |  |  | 0.960 |  |  |
| 2008 | 3,3H | extended rearing | 0.115 |  | lake rear |  |  |  |

[^1]
[^0]:    ${ }^{\text {a }}$ Broodstock included 1,183 males and 1,183 females which were spawned successfully,

[^1]:    ${ }^{a}$ 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.
    ${ }^{c}$ All died to IHNV

